

Human Resources Development Indicators in Korea 2020

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Human Resources Development Indicators in Korea

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Main indicators

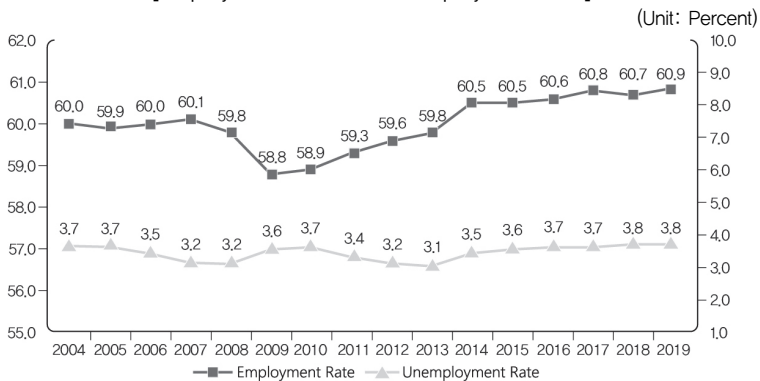
Human Resources Development Indicators in Korea

I. Jobs

1. Employment Rate and Unemployment Rate

- Since falling to 58.8% in 2009, the employment rate reached 60.9% in 2019 after steady growth and faltering trend.
 - In 2019, the employment rate increased 0.2%p year on year and by 2.1%p compared to 2009.
- The unemployment rate dropped from 3.6% in 2009 to 3.1% in 2013 but was 3.8% in 2019.
 - In 2019, the unemployment rate remained the same as the year before, and up 0.2%p compared to 2009.

[Employment Rate and Unemployment Rate]



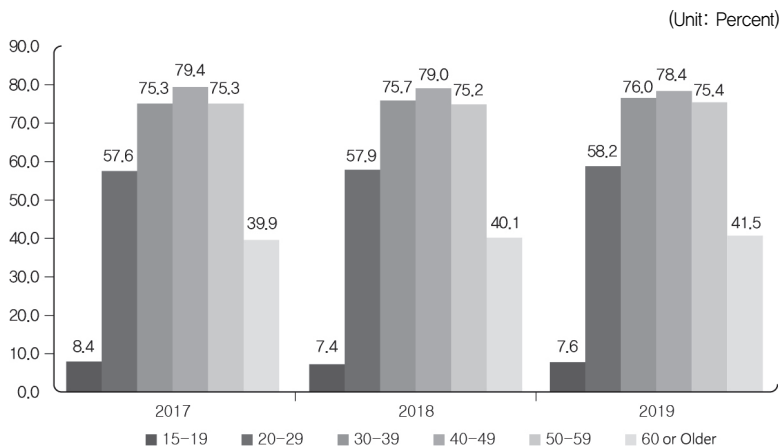
Note: Applied time series correction, based on registered census population (Statistics Korea: February 14, 2018)

Source: Statistics Korea, Economically Active Population Survey (Annual)

2. Employment Rate by Age Group

- In 2019, the employment rate for ages 15-19 was 7.6%, up by 0.2%p from the year before.
- In 2019, the employment rate for ages 20-29 and 30-39 were 58.2% and 76.0%, respectively, both up by 0.3%p from the year before.
- In 2019, the employment rate for age 40-49 was 78.4%, down by 0.6%p from the year before. However, for ages 50-59 and ages over 60, the employment rate in 2019 increased by 0.2%p and 1.4%p from last year, reaching 75.4% and 41.5%, respectively.

[Employment Rate by Age Group]



Note: Applied time series correction, based on registered census population (Statistics Korea: 02.14.2018)

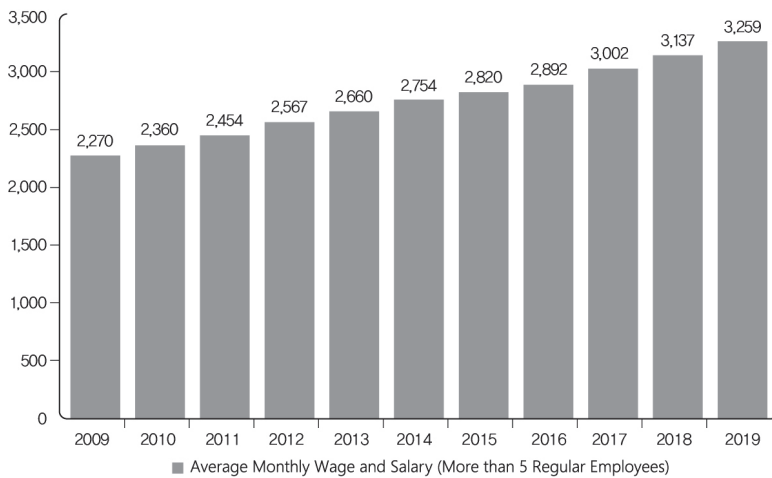
Source: Statistics Korea, Economically Active Population Survey (Annual)

3. Average Monthly Wage and Salary

- Monthly wages showed a steady upward trend, reaching 3,259 thousand won in 2019.
- Average monthly wages increased by 122 thousand won year on year, and by 989 thousand won compared to 2009.

[Average Monthly Wage and Salary]

(Unit: Thousand KRW)

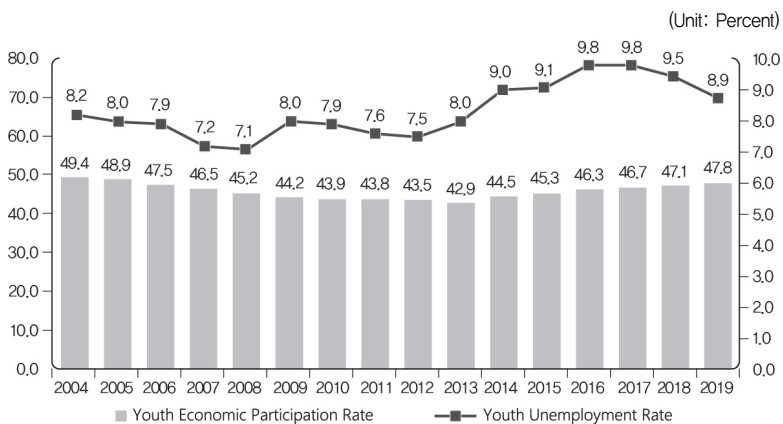


Source: Ministry of Employment and Labor, Survey on Labor Conditions By Employment Type (Former: Basic Statistical Survey on Wage Distribution) (Annual)

4. Youth Economic Participation Rate and Unemployment Rate

- In 2019, the youth economic participation rate was 47.8%, up 0.7%p from the previous year, and up 3.6%p from 2009.
- In 2019, the youth unemployment rate was 8.9%, down by 0.6%p from the previous year, while up by 0.9%p from 2009.

[Youth Economic Participation and Unemployment Rates]



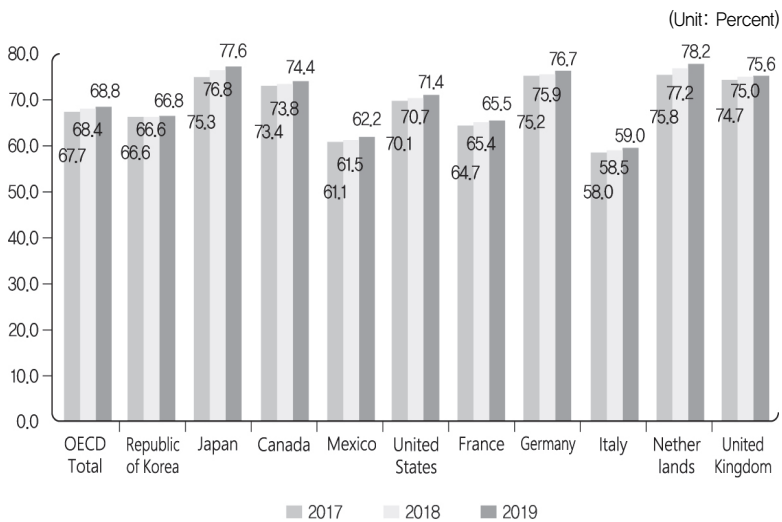
Note: Applied time series correction, based on registered census population (Statistics Korea: February 14, 2018)

Source: Statistics Korea, Economically Active Population Survey (Annual)

5. Total Employment Rate International Comparison

- Employment rates of OECD-total showed continued increase in years 2017, 2018 and 2019
- In 2019, Korea's employment rate was 66.8%, lower than that of Japan's by 10.8%p, and the US by 4.6%p.
- Year on year, the rise was 0.2%p in Korea, 0.8%p in Japan, and 0.7%p in the US, with a relatively low increase in Korea.

[Total Employment Rate Comparison]



Source: OECD.Stat. (<http://stats.oecd.org/>). Labour Force Statistics by sex and age-indicators. (Search date: June 26, 2020)

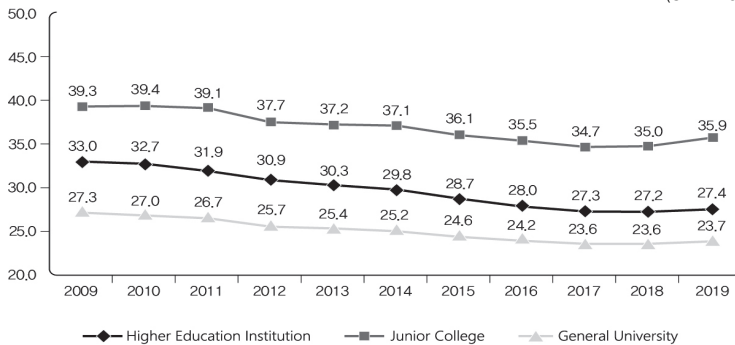
II. Lifelong Vocational Education and Industry-academia Cooperation

1. Number of Students per Faculty

- The number of students per faculty was showing a downward trend until it marginally increased year on year in 2019.
 - In 2019, the number of students per faculty in higher education institutions was 27.4, up by 0.2 year on year and down by 5.6 from 2009.
 - In 2019, the number in junior colleges was 35.9, up by 0.9 year on year and down by 3.4 from 2009.
 - In 2019, the number in general universities was 23.7, up by 0.1 from the previous year and down by 3.6 from 2009.

[Number of Students per Faculty by Year]

(Unit: Person)



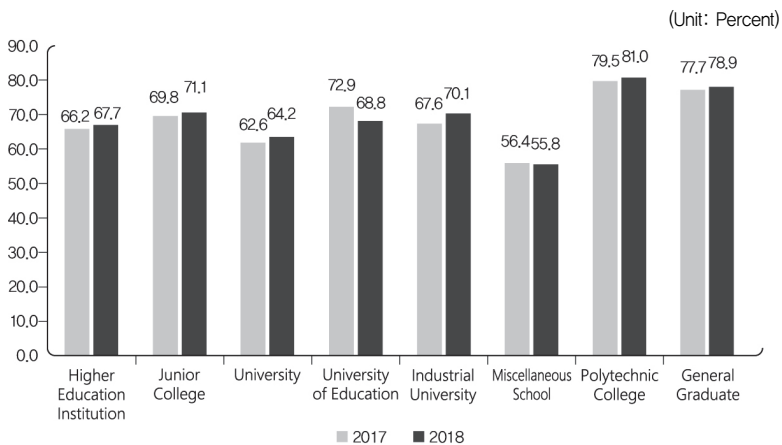
- Notes: 1) Number of students per full-time faculties = (Number of students enrolled ÷ Number of full-time faculties)
 2) Faculties only include presidents, deans and full-time faculties (professors, associate professors, and assistant professors)
 3) The number of full-time faculty and enrolled students in general universities include numbers from undergraduate and graduate programs

Source: Ministry of Education · Korean Educational Development Institute, Statistical Yearbook of Education (Annual)

2. Employment of Graduates from Higher Education Institutions

- With increased opportunities for higher education, Korea has produced abundant human resources. The employment rate for graduates of higher education institutions was 67.7% in 2018, up by 1.5%p year on year.
- Each higher education institution showed an increase between 1.2%p-2.5%p year on year except for University of Education and Miscellaneous Schools.
- Year on year, Universities of Education (4.1%p) had the biggest decrease while Industrial Universities (2.5%p) showed the biggest increase.

[Employment of Graduates from Higher Education Institutions]



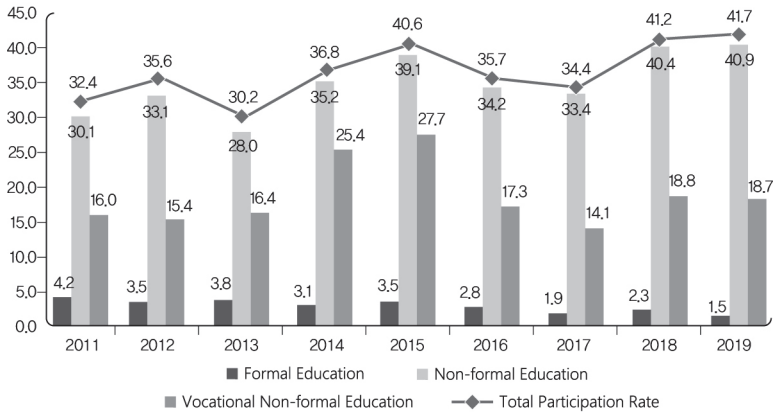
Source: Ministry of Education, Korean Educational Development Institute. Statistical Yearbook for Employment of Higher Education Graduates (Annual)

3. Participation in Lifelong Learning

- In 2019, Korea's lifelong learning participation rate was 41.7%, up 0.5%p year on year.
- For 2019, participation in formal education was 1.5%, down by 0.8%p year on year, and non-formal education was 40.9%, up by 0.5%p year on year. Job-related non-formal education participation was 18.7% in 2019, down by 0.1%p year on year.

[Lifelong Learning Participation Rate]

(Unit: Percent)

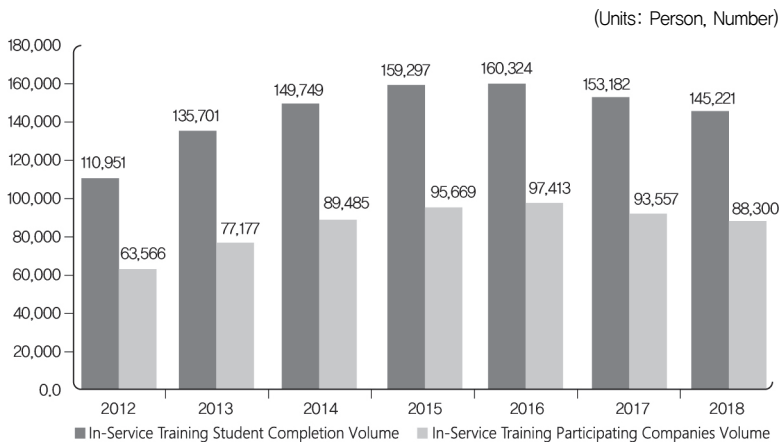


Source: Ministry of Education, Korean Educational Development Institute. Lifelong Learning Status Survey (Annual)

4. In-Service Training Operations

- For in-service training, student completion and participating companies continuously increased in volume from 2012 to 2016, but has been decreasing thereafter.
- In 2018, the number of students completing in-service training was 145,221, and the number of participating companies was 88,300 both falling by 7,961 and 5,257 respectively.

[In-Service Training Operation]



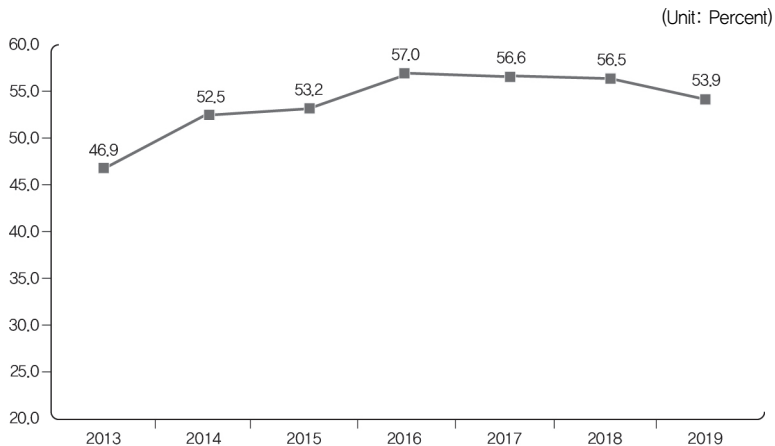
Source: Ministry of Education, National Research Foundation of Korea (2019), 2018 Survey Report on University Industry-academia Cooperation Activities

III. Vocational Skills Development

1. Education and Training Participation of Wage and Salary Workers

- The education and training participation rate of wage and salary workers continuously increased to 57.0% in 2016 but has been showing a decrease since 2017.
 - In 2019, it fell to 53.9%, down by 2.6%p year on year.

[Education and Training Participation Rate of Wage and Salary Workers]



Note: 1) Education and Training Participation Rate: Percentage of those who have received education and training for vocational skills development over the past year

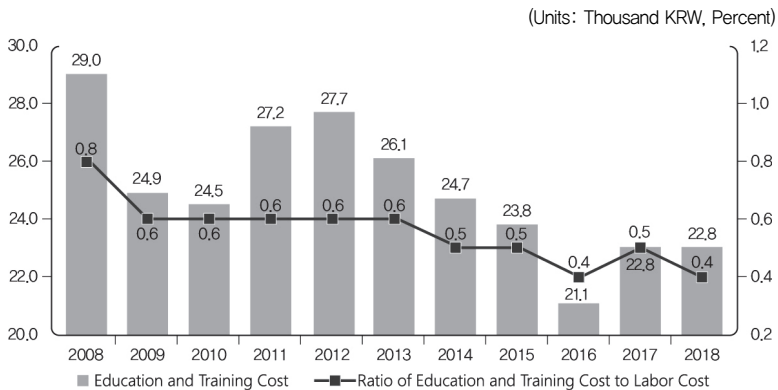
2) Application of time series corrections based on the registered census population (Statistics Korea February 14, 2018, referred to Public Disclosure)

Source: Statistics Korea, Economically Active Population Survey: Additional Survey by Employment Type (Every August)

2. Education and Training Cost of Companies

- In 2018, companies' average monthly cost of education and training per employee was 22.8 thousand won.
- The share of education and training in labor cost per capita fell from 0.8% in 2008 to 0.4% in 2016 but rose by 0.1%p in 2017 reaching 0.5% before dropping back to 0.4% in 2018.

[Monthly Average Education and Training Cost per Employee and Ratio of Education and Training Cost to Labor Cost]

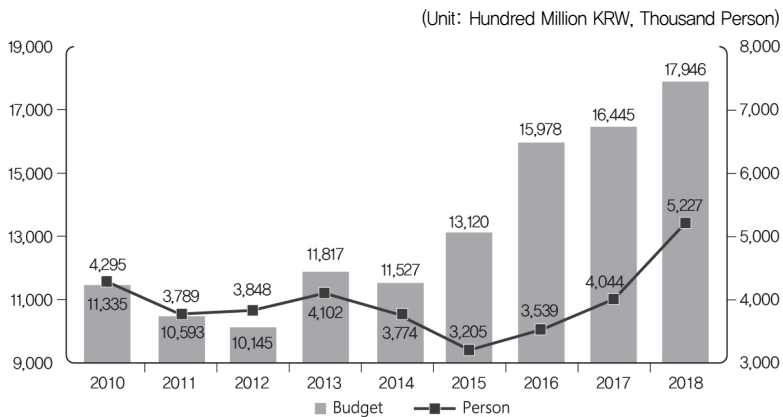


Source: Ministry of Employment and Labor, Report on Enterprise Labor Costs Survey (Annual)

3. Vocational Skills Development Program Training Implementation Status

- The number of trainees participating in the Ministry of Employment and Labor's vocational skills development programs decreased from 4.295 million in 2010 to 3.205 million in 2015, but started rising since 2016 and reached 5.227 million in 2018.
- The budget fell from 1.1335 trillion won in 2010 to 1.0145 trillion won in 2012, but since increased and reached 1.7946 trillion won in 2018.

[Vocational Skills Development Program Training Implementation Status]

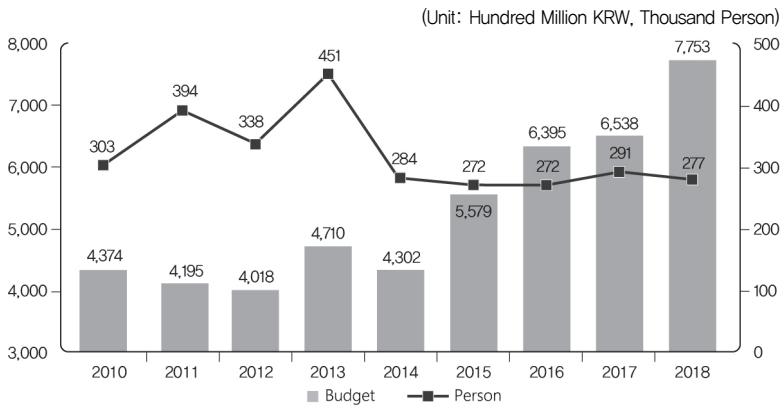


Note: 2010 number includes My Work Learning Card trainees

Source: Ministry of Employment and Labor, Vocational Skills Development Program Status (Annual)

- The number of unemployed training participants in vocational skills development programs increased significantly with the introduction of My Work Learning Card system, reaching its peak at 451 thousand in 2013, but dropping sharply since then to 277 thousand participants in 2018.
- The budget remained around 400 billion won from 2010 to 2014 but increased to 557.9 billion won in 2015, 639.5 billion won in 2016, 653.8 billion won in 2017, and 775.3 billion won in 2018.

[Vocational Skills Development Program
Training Implementation Status]



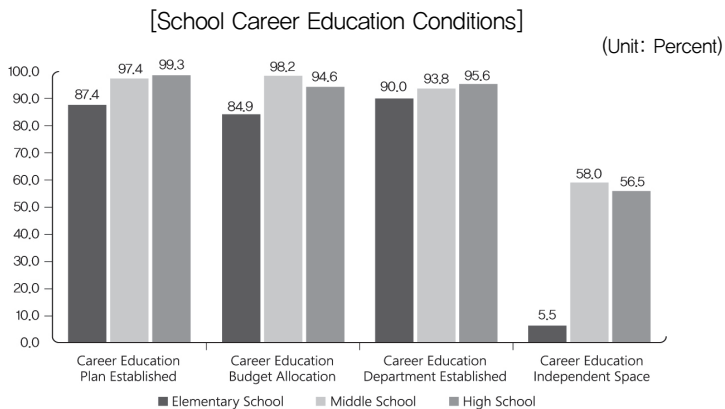
Note: 2010 number includes My Work Learning Card trainees

Source: Ministry of Employment and Labor. Vocational Skills Development Program Status (Annual)

IV. Career Education

1. Career Education Environment in Schools

- In 2019, as for the schools' career education environment, ratio of career education annual planning (87.4% for elementary schools, 97.4% for middle schools, 99.3% for high schools), career education budget allocation (84.9% for elementary schools, 98.2% for middle schools, 94.6% for high schools), and career education dedicated department (90.0% for elementary schools, 93.8% for middle schools, 95.6% for high schools) were quite high.
- The ratio for independent career education space was quite low (5.5% for elementary schools, 58.0% for middle schools, 56.5% for high schools).

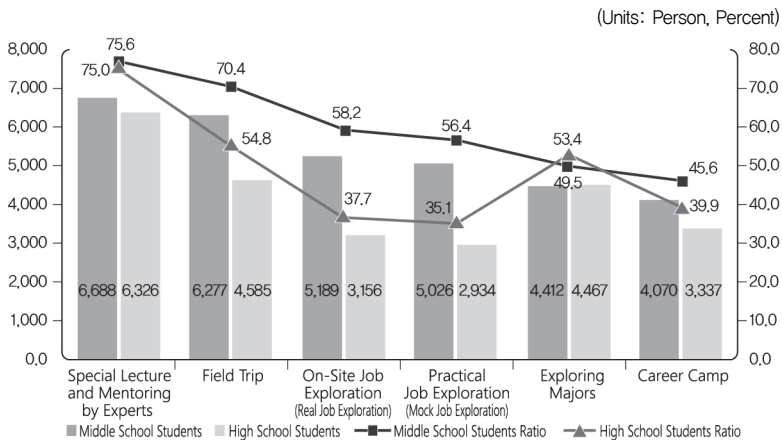


Note: Career Education Independent Space indicates figures for schools only when there is a separate independent space in place for career education, such as a career activity room
Source: Ministry of Education, Korea Research Institute for Vocational Education and Training, 2019 Elementary and Middle School Career Education Conditions Survey

2. Career Exploration Programs at Schools

- As for career exploration participation rates, for middle school students, participation in ‘special lectures and mentoring by experts’ and ‘field trips’ were relatively high (more than 70%), while ‘exploring majors (49.5%)’ and ‘career camps (45.6%)’ were relatively low.
- For high school students, ‘special lectures and mentoring by experts’ was highest at 75.0%. and more than half participated in ‘field trips (54.8%)’ and ‘exploring majors (53.4%),’ while other programs had low participation rate of around 30%.

[Career Exploration Program Participation Status]

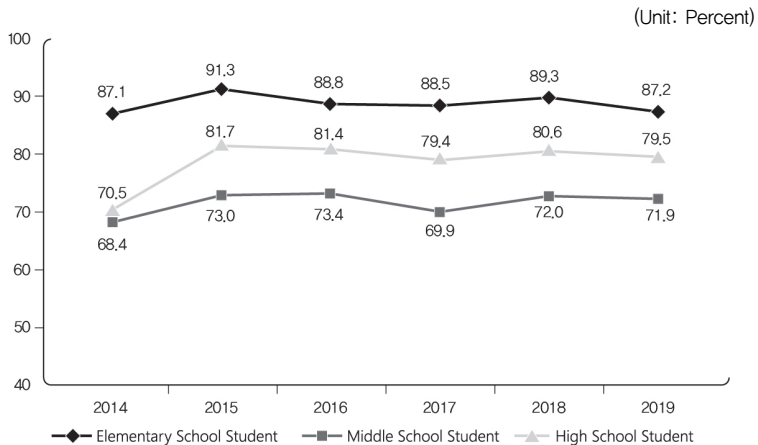


Source: Ministry of Education, Korea Research Institute for Vocational Education and Training, 2019 Elementary and Middle School Career Education Conditions Survey

3. Desired Career Paths Among Students

- A relatively high portion of elementary, middle, and high school students have desired careers.
- In terms of the change (2014-2019) in the percentage of students with desired careers, students with desired careers was 87.2% in elementary schools, 71.9% in middle schools, and 79.5% in high schools in 2019, up by 0.1%p for elementary schools, 3.5%p for middle schools, and 9.0%p for high schools since 2014.

[Change in the Proportion of Elementary, Middle, and High School Students' Having Desired Careers]

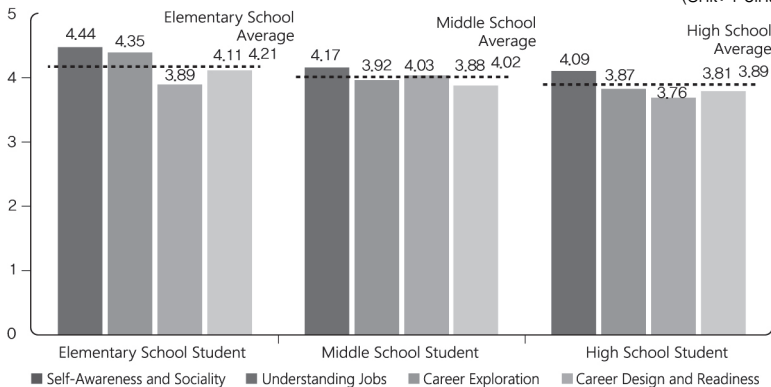


Source: Ministry of Education, Korea Research Institute for Vocational Education and Training, School Career Education Status Survey (2014, 2015)
 Ministry of Education, Jeollabukdo Office of Education, Korea Research Institute for Vocational Education and Training, 2016 Career Education Conditions Survey
 Ministry of Education, Jeollabukdo Office of Education, Korea Research Institute for Vocational Education and Training, 2017 Elementary and Middle School Career Education Conditions Survey
 Ministry of Education, Korea Research Institute for Vocational Education and Training, Elementary and Middle School Career Education Conditions Survey (2018, 2019)

4. Student Career Development Capacity Levels

- Student career development capacity (such as self-awareness and sociality, understanding jobs, career exploration, career design and readiness, etc.) levels were quite high, with all categories higher than 3.7 points (out of 5).
- ‘Self-awareness and sociality’ was the highest among all career development capacity categories, with elementary, middle, and high school students scoring 4.44, 4.17, and 4.09 points, respectively.
- Among career development capacities, ‘career exploration’ was the lowest for elementary and high school students at 3.89 and 3.76 points, respectively, and for middle school students, ‘career design and readiness’ was the lowest at 3.88 points.

[Career Development Capacity Level of Elementary, Middle and High School Students]
(Unit: Point)



Note: 1) Survey questions for elementary (20 questions), middle (20 questions), and high school (21 questions) students were developed based on school career education goals and achievement standards.
 2) Since the results are measured at different levels of questions by level of school, comparison by level of school is insignificant.
 3) The sum of each question is divided by the number of questionnaires and calculated as the average out of 5 points.
 Source: Ministry of Education, Korea Research Institute for Vocational Education and Training, 2019 Elementary and Middle School Career Education Conditions Survey

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2020

Human Resources
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in Korea

I . Jobs



1. Participation in Economic Activities
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1. Participation in Economic Activities

1) Economically Active Population by Gender

(Units: Thousand Person, Percent)

| Year | Population, 15 Years Old and Over | | | Economically Active Population | | | Labor Force Participation Rate | | |
|------|-----------------------------------|--------|--------|--------------------------------|--------|--------|--------------------------------|------|--------|
| | Total | Male | Female | Total | Male | Female | Total | Male | Female |
| 2004 | 37,772 | 18,361 | 19,411 | 23,544 | 13,811 | 9,733 | 62.3 | 75.2 | 50.1 |
| 2005 | 38,120 | 18,539 | 19,580 | 23,718 | 13,876 | 9,842 | 62.2 | 74.8 | 50.3 |
| 2006 | 38,632 | 18,826 | 19,806 | 24,024 | 14,021 | 10,003 | 62.2 | 74.5 | 50.5 |
| 2007 | 39,180 | 19,128 | 20,052 | 24,351 | 14,234 | 10,118 | 62.2 | 74.4 | 50.5 |
| 2008 | 39,775 | 19,442 | 20,333 | 24,551 | 14,344 | 10,207 | 61.7 | 73.8 | 50.2 |
| 2009 | 40,301 | 19,708 | 20,593 | 24,582 | 14,429 | 10,153 | 61.0 | 73.2 | 49.3 |
| 2010 | 40,825 | 19,978 | 20,846 | 24,956 | 14,622 | 10,335 | 61.1 | 73.2 | 49.6 |
| 2011 | 41,387 | 20,269 | 21,119 | 25,389 | 14,869 | 10,520 | 61.3 | 73.4 | 49.8 |
| 2012 | 41,857 | 20,501 | 21,356 | 25,781 | 15,077 | 10,704 | 61.6 | 73.5 | 50.1 |
| 2013 | 42,304 | 20,728 | 21,576 | 26,108 | 15,245 | 10,862 | 61.7 | 73.5 | 50.3 |
| 2014 | 42,795 | 20,989 | 21,806 | 26,836 | 15,607 | 11,229 | 62.7 | 74.4 | 51.5 |
| 2015 | 43,239 | 21,222 | 22,018 | 27,153 | 15,728 | 11,426 | 62.8 | 74.1 | 51.9 |
| 2016 | 43,606 | 21,401 | 22,205 | 27,418 | 15,836 | 11,583 | 62.9 | 74.0 | 52.2 |
| 2017 | 43,931 | 21,573 | 22,357 | 27,748 | 15,975 | 11,773 | 63.2 | 74.1 | 52.7 |
| 2018 | 44,182 | 21,699 | 22,484 | 27,895 | 16,002 | 11,893 | 63.1 | 73.7 | 52.9 |
| 2019 | 44,504 | 21,886 | 22,618 | 28,186 | 16,090 | 12,097 | 63.3 | 73.5 | 53.5 |

Note: 1) In 'population, 15 years old and over,' serviceman on active duty, auxiliary police, social service agent, prisoners are excluded

2) Economically active population = employed + unemployed (actively having sought employment at some time during the last four weeks)

3) Labor force participation rate = (economically active population ÷ population, 15 years old and over) × 100

4) Applied time series correction, based on registered census population (Statistics Korea: February 14, 2018 disclosure)

Source: Statistics Korea, Economically Active Population Survey (Annual)

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2) Labor Force Participation Rate by Age

(Unit: Percent)

| Year | Total | 15–19 Years Old | 20–29 Years Old | 20– | 25– | 30–39 Years Old | 40–49 Years Old | 50–59 Years Old | 60 Years Old & Over | 60–64 Years Old | 65 Years Old & Over |
|------|-------|-----------------------|-----------------------|--------------------|--------------------|-----------------------|-----------------------|-----------------------|------------------------------|-----------------------|------------------------------|
| | | | | 24 Years Old | 29 Years Old | | | | | | |
| 2004 | 62.3 | 9.8 | 66.5 | 58.5 | 73.4 | 75.0 | 79.2 | 69.6 | 37.8 | 54.3 | 30.0 |
| 2005 | 62.2 | 9.1 | 66.3 | 57.3 | 73.8 | 74.9 | 79.2 | 69.9 | 37.6 | 54.5 | 30.0 |
| 2006 | 62.2 | 7.5 | 65.3 | 54.7 | 73.4 | 75.5 | 79.6 | 70.1 | 38.0 | 55.6 | 30.5 |
| 2007 | 62.2 | 7.2 | 64.7 | 52.8 | 73.1 | 75.4 | 80.0 | 71.1 | 38.6 | 56.1 | 31.3 |
| 2008 | 61.7 | 6.5 | 63.8 | 50.1 | 73.0 | 75.3 | 80.1 | 71.9 | 37.8 | 55.0 | 30.8 |
| 2009 | 61.0 | 6.2 | 63.3 | 49.1 | 72.7 | 74.0 | 79.6 | 72.0 | 37.5 | 55.0 | 30.3 |
| 2010 | 61.1 | 7.0 | 63.3 | 48.9 | 73.2 | 74.7 | 79.8 | 72.7 | 37.2 | 55.5 | 29.7 |
| 2011 | 61.3 | 7.6 | 63.1 | 47.9 | 74.4 | 74.7 | 80.1 | 73.1 | 37.7 | 57.0 | 29.7 |
| 2012 | 61.6 | 7.7 | 62.8 | 49.0 | 74.1 | 75.1 | 80.0 | 73.8 | 38.6 | 58.0 | 30.7 |
| 2013 | 61.7 | 7.7 | 61.7 | 47.6 | 74.1 | 75.5 | 80.0 | 74.6 | 39.2 | 58.8 | 31.2 |
| 2014 | 62.7 | 8.5 | 63.1 | 49.9 | 75.3 | 76.4 | 80.9 | 75.9 | 40.0 | 60.0 | 31.8 |
| 2015 | 62.8 | 8.8 | 63.6 | 51.6 | 75.0 | 76.7 | 81.0 | 76.2 | 40.1 | 61.2 | 31.1 |
| 2016 | 62.9 | 8.8 | 64.5 | 51.6 | 76.6 | 77.1 | 81.0 | 76.1 | 40.5 | 61.6 | 31.3 |
| 2017 | 63.2 | 9.2 | 63.9 | 50.6 | 75.9 | 77.8 | 81.1 | 77.0 | 41.1 | 62.5 | 31.5 |
| 2018 | 63.1 | 8.2 | 64.0 | 48.9 | 76.9 | 78.3 | 81.0 | 77.1 | 41.4 | 61.4 | 32.2 |
| 2019 | 63.3 | 8.3 | 63.9 | 48.7 | 76.5 | 78.6 | 80.2 | 77.4 | 43.0 | 62.1 | 34.0 |

Note: 1) In 'population, 15 years old and over,' serviceman on active duty, auxiliary police, social service agent, prisoners are excluded

2) Economically active population = employed + unemployed (actively having sought employment at some time during the last four weeks)

3) Labor force participation rate = (economically active population ÷ population, 15 years old and over) × 100

4) Applied time series correction, based on registered census population (Statistics Korea: February 14, 2018 disclosure)

Source: Statistics Korea, Economically Active Population Survey (Annual)

3) Labor Force Participation Rate by Educational Attainment

(Unit: Percent)

| Year | Total | Elementary School Graduate & Under | Middle School Graduate | High School Graduate | College or University Graduate & Over | Junior College Graduate | University Graduate & Over |
|------|-------|------------------------------------|------------------------|----------------------|---------------------------------------|-------------------------|----------------------------|
| 2004 | 62,3 | 46.1 | 46,9 | 66.0 | 78,0 | 78.4 | 77,8 |
| 2005 | 62,2 | 45.0 | 46,1 | 65.8 | 78,0 | 78.2 | 77,9 |
| 2006 | 62,2 | 44.2 | 45,4 | 65.5 | 78,2 | 78.8 | 78,0 |
| 2007 | 62,2 | 44.1 | 43,8 | 65.4 | 78,2 | 79.6 | 77,6 |
| 2008 | 61,7 | 43.5 | 42,1 | 65.0 | 77,7 | 78.5 | 77,3 |
| 2009 | 61,0 | 42.2 | 40,9 | 63.9 | 77,2 | 77.9 | 76,9 |
| 2010 | 61,1 | 40.9 | 40,9 | 64.3 | 77,3 | 77.7 | 77,2 |
| 2011 | 61,3 | 39.9 | 41,6 | 64.1 | 77,6 | 77.1 | 77,9 |
| 2012 | 61,6 | 39.9 | 41,1 | 63.9 | 77,9 | 77.6 | 78,1 |
| 2013 | 61,7 | 39.4 | 40,4 | 63.6 | 78,1 | 77.9 | 78,2 |
| 2014 | 62,7 | 39.1 | 40,4 | 65.0 | 78,2 | 78.5 | 78,1 |
| 2015 | 62,8 | 37.8 | 40,1 | 65.3 | 78,0 | 78.8 | 77,6 |
| 2016 | 62,9 | 37.1 | 39,4 | 65.2 | 78,0 | 79.3 | 77,5 |
| 2017 | 63,2 | 36.4 | 40,0 | 65.3 | 78,1 | 79.2 | 77,7 |
| 2018 | 63,1 | 35.8 | 40,2 | 64.7 | 78,0 | 79.2 | 77,6 |
| 2019 | 63,3 | 36.6 | 40,8 | 64.3 | 77,8 | 78.7 | 77,4 |

Note: 1) In 'population, 15 years old and over,' serviceman on active duty, auxiliary police, social service agent, prisoners are excluded

2) Economically active population = employed + unemployed

* Unemployed: people of age 15 or older without a job during the survey period who have actively looked for work in the past four weeks, and are immediately available to work if given a job

3) Labor force participation rate = (economically active population ÷ population, 15 years old and over) × 100

4) Applied time series correction, based on registered census population (Statistics Korea: February 14, 2018 disclosure)

Source: Statistics Korea, Economically Active Population Survey (Annual)

2. Employed and Unemployed Population

1) Composition of Employed Persons by Industry

(Unit: Percent)

| Year | Agriculture, Forestry & Fishing | Mining & Manufacturing | | Social Overhead Capital and Other Services | | | | |
|------|---------------------------------|------------------------|---------------|--|--|--|---|------|
| | | | Manufacturing | Construction | Wholesale & Retail Trade, Restaurants & Hotels | Business, Personal, Public Service & Other | Electricity, Transport, Storage Finance | |
| 2013 | 6.0 | 17.1 | 17.0 | 76.9 | 7.0 | 22.4 | 35.3 | 12.2 |
| 2014 | 5.6 | 17.3 | 17.2 | 77.2 | 7.1 | 23.0 | 35.3 | 11.8 |
| 2015 | 5.1 | 17.6 | 17.6 | 77.2 | 7.1 | 23.0 | 35.4 | 11.8 |
| 2016 | 4.8 | 17.4 | 17.4 | 77.8 | 7.1 | 22.9 | 36.1 | 11.7 |
| 2017 | 4.8 | 17.2 | 17.1 | 78.0 | 7.4 | 22.8 | 36.4 | 11.4 |
| 2018 | 5.0 | 16.9 | 16.8 | 78.1 | 7.6 | 22.2 | 36.5 | 11.8 |
| 2019 | 5.1 | 16.4 | 16.3 | 78.5 | 7.4 | 22.0 | 37.4 | 11.7 |

Note: 1) 10th Korean Standard Industrial Classification (2017) Revision Standards

2) Applied time series correction, based on registered census population (Statistics Korea: referred to February 14, 2018 disclosure)

3) Mining & manufacturing = mining (B) + manufacturing (C)

4) Wholesale & retail trade, restaurants & hotels = wholesale and retail trade (G) + accommodation and food service activities (I)

5) Business, personal, public service and other = water supply; sewage, waste management, materials recovery (E) + real estate activities (L) + professional, scientific and technical activities (M) + business facilities management and business support services; rental and leasing (N) + public administration and defence; compulsory social security (O) + education (P) + human health and social work activities (Q) + arts, sports and recreation related services (R) + membership organizations, repair and other personal services (S) + activities of households as employers; undifferentiated goods and services producing (T) + activities of extraterritorial organizations and bodies (U)

6) Electricity, transport, storage finance = electricity, gas, steam and air conditioning supply (D) + transportation and storage (H) + information and communication (J) + financial and insurance activities (K)

Source: Statistics Korea, Economically Active Population Survey (Annual)

2) Employment Rate by Age

(Unit: Percent)

| Year | Total | 15–19 Years Old | 20–29 Years Old | 20–24 | 25–29 | 30–39 Years Old | 40–49 Years Old | 50–59 Years Old | 60 Years Old & Over | 60–64 | 65 |
|------|-------|-----------------------|-----------------------|--------------|--------------|-----------------------|-----------------------|-----------------------|------------------------------|--------------|--------------|
| | | | | Years Old | Years Old | | | | | Years Old | Years Old |
| 2004 | 60,0 | 8,4 | 61,2 | 52,7 | 68,6 | 72,7 | 77,4 | 68,0 | 37,3 | 53,3 | 29,8 |
| 2005 | 59,9 | 8,0 | 61,2 | 51,7 | 69,1 | 72,4 | 77,2 | 68,2 | 37,1 | 53,4 | 29,7 |
| 2006 | 60,0 | 6,7 | 60,2 | 49,3 | 68,6 | 73,3 | 77,8 | 68,6 | 37,5 | 54,3 | 30,3 |
| 2007 | 60,1 | 6,6 | 60,1 | 48,2 | 68,5 | 73,0 | 78,4 | 69,6 | 38,1 | 54,8 | 31,1 |
| 2008 | 59,8 | 5,9 | 59,4 | 45,5 | 68,6 | 73,0 | 78,4 | 70,5 | 37,3 | 54,0 | 30,6 |
| 2009 | 58,8 | 5,4 | 58,4 | 44,5 | 67,6 | 71,4 | 77,6 | 70,2 | 36,9 | 53,8 | 30,0 |
| 2010 | 58,9 | 6,1 | 58,4 | 44,4 | 68,1 | 72,0 | 77,9 | 70,9 | 36,2 | 53,7 | 29,0 |
| 2011 | 59,3 | 6,8 | 58,4 | 43,3 | 69,6 | 72,2 | 78,4 | 71,6 | 36,8 | 55,3 | 29,1 |
| 2012 | 59,6 | 7,0 | 58,2 | 44,5 | 69,2 | 72,8 | 78,3 | 72,3 | 37,7 | 56,3 | 30,1 |
| 2013 | 59,8 | 6,9 | 56,8 | 43,3 | 68,8 | 73,3 | 78,4 | 73,2 | 38,4 | 57,4 | 30,7 |
| 2014 | 60,5 | 7,7 | 57,4 | 44,8 | 69,0 | 74,1 | 79,1 | 74,2 | 39,0 | 58,5 | 31,1 |
| 2015 | 60,5 | 7,8 | 57,9 | 46,1 | 68,9 | 74,4 | 79,1 | 74,4 | 39,0 | 59,6 | 30,4 |
| 2016 | 60,6 | 8,0 | 58,2 | 46,1 | 69,5 | 74,7 | 79,3 | 74,3 | 39,5 | 59,7 | 30,6 |
| 2017 | 60,8 | 8,4 | 57,6 | 45,3 | 68,7 | 75,3 | 79,4 | 75,3 | 39,9 | 60,6 | 30,6 |
| 2018 | 60,7 | 7,4 | 57,9 | 43,7 | 70,2 | 75,7 | 79,0 | 75,2 | 40,1 | 59,4 | 31,3 |
| 2019 | 60,9 | 7,6 | 58,2 | 43,5 | 70,4 | 76,0 | 78,4 | 75,4 | 41,5 | 59,8 | 32,9 |

Note: 1) The employment rate is the ratio of employed person among the economically active population (those aged 15 or over)

2) In 'population, 15 years old and over,' serviceman on active duty, auxiliary police, social service agent, prisoners are excluded

3) Applied time series correction, based on registered census population (Statistics Korea: February 14, 2018 disclosure)

Source: Statistics Korea, Economically Active Population Survey (Annual)

3) Discouraged Workers

(Units: Thousand Person, Percent)

| Year | Total | Percentage Change | Male | Female |
|------|-------|-------------------|------|--------|
| 2004 | 101 | 12,2 | 54 | 47 |
| 2005 | 124 | 22,8 | 70 | 54 |
| 2006 | 121 | -2,4 | 75 | 46 |
| 2007 | 108 | -10,7 | 68 | 39 |
| 2008 | 119 | 10,2 | 71 | 48 |
| 2009 | 162 | 36,1 | 99 | 63 |
| 2010 | 220 | 35,8 | 132 | 88 |
| 2011 | 212 | -3,6 | 130 | 83 |
| 2012 | 196 | -7,5 | 117 | 79 |
| 2013 | 173 | -11,7 | 110 | 63 |
| 2014 | 394 | - | 229 | 165 |
| 2015 | 463 | 17,5 | 262 | 202 |
| 2016 | 448 | -3,2 | 262 | 186 |
| 2017 | 481 | 7,4 | 287 | 194 |
| 2018 | 524 | 8,9 | 305 | 219 |
| 2019 | 533 | 1,7 | 304 | 229 |

Note: 1) The definitions "hoping for employment" and "possibility of employment," both partial conditions for determining discouraged workers, were expanded and modified as of the 2014 survey. Therefore, caution is required when making comparisons with pre-2014 data.

* Discouraged workers (until 2013): among the economically inactive population, those with willingness and ability to work, and engaged in job search activities within the past year, but have not found a job due to labor market issues

* Discouraged workers (since 2014): among the economically inactive population, those who have hoped to get a job and were able to work, but did not find one due to labor market issues within the past year

2) The percentage change compares to the previous year

3) Applied time series correction, based on registered census population (Statistics Korea: February 14, 2018 disclosure)

Source: Statistics Korea, Economically Active Population Survey (Annual)

4) Unemployment Rate by Age

(Unit: Percent)

| Year | Total | 15–19 Years Old | 20–29 Years Old | 20–24 Years Old | 25–29 Years Old | 30–39 Years Old | 40–49 Years Old | 50–59 Years Old | 60 Years Old & Over | 60–64 Years Old | 65 Years Old & Over |
|------|-------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|------------------------------|-----------------------|------------------------------|
| 2004 | 3.7 | 14.0 | 7.8 | 9.8 | 6.5 | 3.1 | 2.3 | 2.3 | 1.2 | 1.7 | 0.7 |
| 2005 | 3.7 | 12.3 | 7.7 | 9.8 | 6.4 | 3.3 | 2.5 | 2.5 | 1.3 | 2.1 | 0.7 |
| 2006 | 3.5 | 10.5 | 7.8 | 10.0 | 6.5 | 3.0 | 2.3 | 2.1 | 1.4 | 2.3 | 0.7 |
| 2007 | 3.2 | 9.3 | 7.1 | 8.6 | 6.3 | 3.2 | 2.0 | 2.1 | 1.4 | 2.3 | 0.7 |
| 2008 | 3.2 | 10.2 | 7.0 | 9.1 | 6.0 | 3.1 | 2.1 | 2.0 | 1.2 | 1.8 | 0.8 |
| 2009 | 3.6 | 12.3 | 7.8 | 9.5 | 7.1 | 3.6 | 2.4 | 2.5 | 1.6 | 2.2 | 1.2 |
| 2010 | 3.7 | 11.9 | 7.7 | 9.4 | 6.9 | 3.5 | 2.5 | 2.5 | 2.8 | 3.4 | 2.4 |
| 2011 | 3.4 | 10.8 | 7.4 | 9.4 | 6.4 | 3.4 | 2.1 | 2.1 | 2.6 | 3.0 | 2.2 |
| 2012 | 3.2 | 8.9 | 7.4 | 9.0 | 6.6 | 3.0 | 2.0 | 2.1 | 2.4 | 2.8 | 2.1 |
| 2013 | 3.1 | 10.3 | 7.8 | 9.2 | 7.1 | 3.0 | 2.0 | 1.9 | 1.8 | 2.3 | 1.5 |
| 2014 | 3.5 | 9.3 | 9.0 | 10.2 | 8.3 | 3.1 | 2.2 | 2.2 | 2.3 | 2.6 | 2.1 |
| 2015 | 3.6 | 10.6 | 9.0 | 10.5 | 8.1 | 3.1 | 2.3 | 2.4 | 2.5 | 2.8 | 2.4 |
| 2016 | 3.7 | 10.0 | 9.8 | 10.8 | 9.2 | 3.1 | 2.1 | 2.3 | 2.7 | 3.1 | 2.3 |
| 2017 | 3.7 | 8.7 | 9.9 | 10.6 | 9.5 | 3.3 | 2.1 | 2.2 | 2.9 | 2.9 | 2.8 |
| 2018 | 3.8 | 9.3 | 9.5 | 10.7 | 8.8 | 3.4 | 2.5 | 2.5 | 3.1 | 3.3 | 2.9 |
| 2019 | 3.8 | 8.6 | 8.9 | 10.7 | 8.0 | 3.3 | 2.3 | 2.5 | 3.4 | 3.7 | 3.2 |

Note: 1) Unemployment rate = (number of unemployed ÷ economically active population) × 100

2) Unemployed calculation based on seeking-work period of 4 weeks

3) Applied time series correction, based on registered census population (Statistics Korea: February 14, 2018 disclosure)

Source: Statistics Korea, Economically Active Population Survey (Annual)

5) Unemployment Rate by Educational Attainment

(Unit: Percent)

| Year | Total | Elementary School Graduate & Under | Middle School Graduate | High School Graduate | College or University Graduate & Over | Junior College Graduate | University Graduate & Over |
|------|-------|------------------------------------|------------------------|----------------------|---------------------------------------|-------------------------|----------------------------|
| 2004 | 3.7 | 1.8 | 3.2 | 4.5 | 3.5 | 4.7 | 2.9 |
| 2005 | 3.7 | 2.1 | 3.3 | 4.6 | 3.4 | 4.9 | 2.7 |
| 2006 | 3.5 | 1.8 | 3.0 | 4.2 | 3.4 | 4.4 | 3.0 |
| 2007 | 3.2 | 1.6 | 2.8 | 3.8 | 3.3 | 4.6 | 2.7 |
| 2008 | 3.2 | 1.7 | 2.8 | 3.8 | 3.0 | 3.8 | 2.6 |
| 2009 | 3.6 | 1.9 | 3.2 | 4.4 | 3.4 | 4.3 | 3.1 |
| 2010 | 3.7 | 2.5 | 3.5 | 4.2 | 3.6 | 4.6 | 3.1 |
| 2011 | 3.4 | 2.0 | 3.2 | 4.0 | 3.2 | 4.2 | 2.8 |
| 2012 | 3.2 | 2.2 | 2.9 | 3.5 | 3.2 | 3.7 | 2.9 |
| 2013 | 3.1 | 2.0 | 2.4 | 3.4 | 3.2 | 3.7 | 3.0 |
| 2014 | 3.5 | 2.4 | 2.7 | 3.9 | 3.5 | 4.0 | 3.2 |
| 2015 | 3.6 | 2.6 | 2.7 | 4.0 | 3.6 | 4.1 | 3.3 |
| 2016 | 3.7 | 2.4 | 2.9 | 4.1 | 3.7 | 3.9 | 3.6 |
| 2017 | 3.7 | 2.5 | 3.0 | 3.8 | 3.9 | 4.4 | 3.7 |
| 2018 | 3.8 | 3.0 | 3.5 | 4.1 | 3.8 | 4.2 | 3.6 |
| 2019 | 3.8 | 3.5 | 4.0 | 4.1 | 3.5 | 4.0 | 3.3 |

Note: 1) Unemployment rate = (number of unemployed ÷ economically active population) × 100

2) Unemployed calculation based on seeking-work period of 4 weeks

3) Applied time series correction, based on registered census population (Statistics Korea: February 14, 2018 disclosure)

Source: Statistics Korea, Economically Active Population Survey (Annual)

3. Economically Active Youth Population

1) Economically Active Youth Population Trends

(Units: Thousand Person, Percent)

| Year | Youth Population | Economically Active Population | | | Not Economically Active Population | Economic Activity Participation Rate | Employment Rate | Unemployment Rate |
|------|------------------|--------------------------------|----------|------------|------------------------------------|--------------------------------------|-----------------|-------------------|
| | | Total | Employed | Unemployed | | | | |
| 2004 | 10,162 | 5,023 | 4,610 | 413 | 5,139 | 49.4 | 45.4 | 8.2 |
| 2005 | 9,961 | 4,875 | 4,485 | 389 | 5,086 | 48.9 | 45.0 | 8.0 |
| 2006 | 9,895 | 4,703 | 4,331 | 372 | 5,192 | 47.5 | 43.8 | 7.9 |
| 2007 | 9,879 | 4,598 | 4,266 | 332 | 5,281 | 46.5 | 43.2 | 7.2 |
| 2008 | 9,868 | 4,456 | 4,138 | 318 | 5,412 | 45.2 | 41.9 | 7.1 |
| 2009 | 9,829 | 4,340 | 3,992 | 348 | 5,489 | 44.2 | 40.6 | 8.0 |
| 2010 | 9,735 | 4,269 | 3,930 | 339 | 5,466 | 43.9 | 40.4 | 7.9 |
| 2011 | 9,660 | 4,229 | 3,907 | 322 | 5,431 | 43.8 | 40.4 | 7.6 |
| 2012 | 9,531 | 4,150 | 3,837 | 312 | 5,381 | 43.5 | 40.3 | 7.5 |
| 2013 | 9,439 | 4,053 | 3,728 | 324 | 5,387 | 42.9 | 39.5 | 8.0 |
| 2014 | 9,395 | 4,179 | 3,802 | 378 | 5,216 | 44.5 | 40.5 | 9.0 |
| 2015 | 9,380 | 4,253 | 3,864 | 389 | 5,127 | 45.3 | 41.2 | 9.1 |
| 2016 | 9,363 | 4,334 | 3,908 | 426 | 5,029 | 46.3 | 41.7 | 9.8 |
| 2017 | 9,282 | 4,333 | 3,907 | 426 | 4,949 | 46.7 | 42.1 | 9.8 |
| 2018 | 9,149 | 4,312 | 3,904 | 408 | 4,837 | 47.1 | 42.7 | 9.5 |
| 2019 | 9,060 | 4,331 | 3,945 | 386 | 4,729 | 47.8 | 43.5 | 8.9 |

Note: 1) Youth population indicates people aged 15–29

* In youth population, serviceman on active duty, auxiliary police, social service agent, prisoners are excluded

2) Economically active population = employed + unemployed (actively having sought employment at some time during the last four weeks)

3) Labor force participation rate = (economically active population ÷ population, 15 years old and over) × 100

4) Applied time series correction, based on registered census population (Statistics Korea: February 14, 2018 disclosure)

Source: Statistics Korea, Economically Active Population Survey (Annual)

2) Economically Active Youth Population Additional Survey

(Units: Thousand Person, Percent)

| Year | Youth Population Graduates & Dropouts (Enrolled & Leave of Absence) | Economically Active Population | | | Economically Inactive Population | Economic Activity Participation Rate | Employment Rate | Unemployment Rate |
|----------|---|--------------------------------|----------------|-------------|----------------------------------|--------------------------------------|-----------------|-------------------|
| | | Total | Employed | Unemployed | | | | |
| 2004. 05 | 5,656 (4,522) | 4,315 (724) | 3,964 (665) | 350 (59) | 1,341 (3,799) | 76.3 (16) | 70.1 (14.7) | 8.1 (8.1) |
| 2005. 05 | 5,423 (4,541) | 4,145 (749) | 3,820 (711) | 325 (38) | 1,278 (3,792) | 76.4 (16.5) | 70.4 (15.7) | 7.8 (5.1) |
| 2006. 05 | 5,236 (4,655) | 3,974 (723) | 3,678 (680) | 295 (43) | 1,262 (3,932) | 75.9 (15.5) | 70.3 (14.6) | 7.4 (6) |
| 2007. 05 | 5,102 (4,767) | 3,875 (734) | 3,595 (692) | 279 (41) | 1,228 (4,034) | 76 (15.4) | 70.5 (14.5) | 7.2 (5.6) |
| 2008. 05 | 5,059 (4,803) | 3,806 (726) | 3,536 (684) | 270 (42) | 1,252 (4,077) | 75.2 (15.1) | 69.9 (14.2) | 7.1 (5.8) |
| 2009. 05 | 4,878 (4,959) | 3,681 (735) | 3,397 (686) | 284 (48) | 1,196 (4,224) | 75.5 (14.8) | 69.6 (13.8) | 7.7 (6.6) |
| 2010. 05 | 4,756 (4,982) | 3,586 (729) | 3,348 (693) | 238 (36) | 1,170 (4,253) | 75.4 (14.6) | 70.4 (13.9) | 6.6 (5) |
| 2011. 05 | 4,655 (5,027) | 3,490 (781) | 3,232 (726) | 258 (55) | 1,165 (4,246) | 75 (15.5) | 69.4 (14.5) | 7.4 (7) |
| 2012. 05 | 4,556 (4,992) | 3,477 (780) | 3,179 (738) | 298 (42) | 1,078 (4,212) | 76.3 (15.6) | 69.8 (14.8) | 8.6 (5.4) |
| 2013. 05 | 4,411 (5,028) | 3,336 (725) | 3,082 (679) | 254 (47) | 1,076 (4,302) | 75.6 (14.4) | 69.9 (13.5) | 7.6 (6.5) |
| 2014. 05 | 4,389 (5,003) | 3,359 (778) | 3,054 (725) | 306 (53) | 1,030 (4,226) | 76.5 (15.6) | 69.6 (14.5) | 9.1 (6.8) |
| 2015. 05 | 4,557 (4,826) | 3,472 (813) | 3,139 (750) | 333 (64) | 1,085 (4,013) | 76.2 (16.8) | 68.9 (15.5) | 9.6 (7.8) |
| 2016. 05 | 4,643 (4,731) | 3,593 (781) | 3,238 (711) | 355 (70) | 1,050 (3,951) | 77.4 (16.5) | 69.7 (15) | 9.9 (8.9) |
| 2017. 05 | 4,730 (4,569) | 3,629 (781) | 3,286 (716) | 343 (65) | 1,102 (3,788) | 76.7 (17.1) | 69.5 (15.7) | 9.4 (8.3) |
| 2018. 05 | 4,788 (4,368) | 3,704 (664) | 3,301 (607) | 403 (57) | 1,084 (3,704) | 77.4 (15.2) | 68.9 (13.9) | 10.9 (8.6) |
| 2019. 05 | 4,835 (4,238) | 3,674 (716) | 3,295 (659) | 379 (58) | 1,161 (3,521) | 76.0 (16.9) | 68.1 (15.5) | 10.3 (8.0) |

Note: 1) Economic activity participation rate, employment rate, and unemployment rate of youth (ages 15–29) shown by graduates & dropouts and enrolled & leave of absent students

2) The figure in () indicates students enrolled and on leave of absence

3) Economically active and economically inactive populations include others (illiterate)

4) Applied time series correction, based on registered census population (Statistics Korea: February 14, 2018 disclosure)

Source: Statistics Korea, Economically Active Population Survey – Additional Survey on Youth (Annual)

3) Total and Youth Unemployment Rate

(Units: Thousand Person, Percent)

| Year | Youth (15–29 Years Old) | | Total (15 Years Old & Over) | |
|------|-------------------------|-------------------|-----------------------------|-------------------|
| | Unemployed | Unemployment Rate | Unemployed | Unemployment Rate |
| 2004 | 413 | 8.2 | 862 | 3.7 |
| 2005 | 389 | 8.0 | 887 | 3.7 |
| 2006 | 372 | 7.9 | 836 | 3.5 |
| 2007 | 332 | 7.2 | 790 | 3.2 |
| 2008 | 318 | 7.1 | 776 | 3.2 |
| 2009 | 348 | 8.0 | 894 | 3.6 |
| 2010 | 339 | 7.9 | 924 | 3.7 |
| 2011 | 322 | 7.6 | 863 | 3.4 |
| 2012 | 312 | 7.5 | 826 | 3.2 |
| 2013 | 324 | 8.0 | 808 | 3.1 |
| 2014 | 378 | 9.0 | 939 | 3.5 |
| 2015 | 389 | 9.1 | 976 | 3.6 |
| 2016 | 426 | 9.8 | 1,009 | 3.7 |
| 2017 | 426 | 9.8 | 1,023 | 3.7 |
| 2018 | 408 | 9.5 | 1,073 | 3.8 |
| 2019 | 386 | 8.9 | 1,063 | 3.8 |

Note: 1) Unemployment rate = (unemployed ÷ economically active population) × 100

2) Applied time series correction, based on registered census population (Statistics Korea: February 14, 2018 disclosure)

3) In 'population, 15 years old and over,' serviceman on active duty, auxiliary police, social service agent, prisoners are excluded

Source: Statistics Korea, Economically Active Population Survey (Annual)

4. Wage

1) Wage by Industry and Gender¹⁾ (Companies with 5 or more regular employees)

(Unit: Thousand KRW)

| Classification | | 2012 | 2013 | 2014 | 2015 | 2016 | 2017 | 2018 | 2019 |
|---|--------|-------|-------|-------|-------|-------|-------|-------|-------|
| Industry Total | Total | 2,567 | 2,660 | 2,754 | 2,820 | 2,892 | 3,002 | 3,137 | 3,259 |
| | Male | 2,878 | 2,986 | 3,122 | 3,215 | 3,289 | 3,418 | 3,562 | 3,686 |
| | Female | 1,958 | 2,033 | 2,092 | 2,119 | 2,203 | 2,298 | 2,449 | 2,574 |
| Agriculture, Forestry and Fishing | Total | 2,584 | 2,714 | 2,625 | 2,669 | 2,746 | 2,638 | 2,853 | 2,897 |
| | Male | 2,797 | 2,912 | 2,826 | 2,853 | 2,928 | 2,797 | 3,035 | 3,074 |
| | Female | 1,776 | 1,928 | 1,967 | 2,001 | 2,109 | 2,118 | 2,292 | 2,358 |
| Mining and Quarrying | Total | 2,803 | 2,967 | 3,046 | 3,319 | 3,395 | 3,526 | 3,716 | 3,783 |
| | Male | 2,883 | 3,052 | 3,160 | 3,419 | 3,494 | 3,629 | 3,825 | 3,886 |
| | Female | 1,914 | 2,117 | 2,046 | 2,385 | 2,491 | 2,572 | 2,703 | 2,896 |
| Manufacturing | Total | 2,503 | 2,635 | 2,819 | 2,912 | 2,984 | 3,054 | 3,217 | 3,342 |
| | Male | 2,734 | 2,877 | 3,060 | 3,159 | 3,230 | 3,303 | 3,457 | 3,584 |
| | Female | 1,802 | 1,902 | 2,109 | 2,145 | 2,227 | 2,273 | 2,464 | 2,570 |
| Electricity, Gas, Steam and Water Supply | Total | 3,873 | 4,044 | 4,159 | 4,292 | 4,438 | 4,399 | 4,613 | 4,650 |
| | Male | 4,048 | 4,217 | 4,349 | 4,505 | 4,637 | 4,591 | 4,828 | 4,853 |
| | Female | 2,641 | 2,781 | 2,859 | 2,999 | 3,197 | 3,328 | 3,419 | 3,585 |
| Sewerage, Waste Management, Materials Recovery and Remediation Activities | Total | 2,400 | 2,561 | 2,696 | 2,761 | 2,846 | 3,050 | 3,268 | 3,421 |
| | Male | 2,529 | 2,682 | 2,811 | 2,870 | 2,960 | 3,156 | 3,386 | 3,547 |
| | Female | 1,662 | 1,817 | 2,028 | 2,139 | 2,176 | 2,439 | 2,572 | 2,686 |
| Construction | Total | 2,636 | 2,722 | 2,909 | 2,900 | 3,050 | 3,197 | 3,342 | 3,402 |
| | Male | 2,753 | 2,839 | 3,059 | 3,025 | 3,192 | 3,360 | 3,484 | 3,548 |
| | Female | 1,878 | 1,971 | 2,112 | 2,160 | 2,262 | 2,334 | 2,565 | 2,622 |
| Wholesale and Retail Trade | Total | 2,481 | 2,556 | 2,587 | 2,659 | 2,722 | 2,924 | 3,082 | 3,225 |
| | Male | 2,824 | 2,922 | 2,968 | 3,060 | 3,115 | 3,350 | 3,506 | 3,668 |
| | Female | 1,885 | 1,956 | 1,989 | 2,028 | 2,124 | 2,282 | 2,454 | 2,579 |
| Transportation | Total | 2,356 | 2,427 | 2,484 | 2,597 | 2,679 | 2,857 | 2,895 | 2,978 |
| | Male | 2,406 | 2,466 | 2,535 | 2,650 | 2,724 | 2,921 | 2,948 | 3,028 |
| | Female | 2,057 | 2,177 | 2,187 | 2,289 | 2,416 | 2,521 | 2,629 | 2,735 |

(Table continued)

| Classification | | 2012 | 2013 | 2014 | 2015 | 2016 | 2017 | 2018 | 2019 |
|--|--------|-------|-------|-------|-------|-------|-------|-------|-------|
| Accommodation and Food Service Activities | Total | 1,705 | 1,770 | 1,775 | 1,800 | 1,884 | 1,915 | 2,084 | 2,260 |
| | Male | 1,954 | 2,016 | 2,038 | 2,071 | 2,137 | 2,184 | 2,328 | 2,501 |
| | Female | 1,506 | 1,561 | 1,563 | 1,593 | 1,695 | 1,718 | 1,912 | 2,093 |
| Information and Communications | Total | 3,197 | 3,389 | 3,325 | 3,415 | 3,494 | 3,639 | 3,890 | 4,021 |
| | Male | 3,448 | 3,662 | 3,624 | 3,735 | 3,804 | 3,954 | 4,225 | 4,340 |
| | Female | 2,483 | 2,646 | 2,570 | 2,576 | 2,685 | 2,851 | 3,068 | 3,269 |
| Financial and Insurance Activities | Total | 3,515 | 3,602 | 3,844 | 3,856 | 4,092 | 4,072 | 4,227 | 4,418 |
| | Male | 3,946 | 4,065 | 4,442 | 4,527 | 4,745 | 4,665 | 4,836 | 5,021 |
| | Female | 2,773 | 2,822 | 3,016 | 3,026 | 3,277 | 3,265 | 3,492 | 3,702 |
| Real Estate Activities and Renting and Leasing | Total | 1,871 | 1,961 | 1,959 | 2,069 | 2,255 | 2,439 | 2,545 | 2,579 |
| | Male | 2,039 | 2,132 | 2,178 | 2,330 | 2,512 | 2,690 | 2,784 | 2,822 |
| | Female | 1,426 | 1,499 | 1,420 | 1,473 | 1,636 | 1,855 | 2,005 | 2,037 |
| Professional, Scientific and Technical Activities | Total | 3,306 | 3,423 | 3,472 | 3,650 | 3,659 | 3,805 | 3,929 | 4,102 |
| | Male | 3,639 | 3,785 | 3,826 | 4,035 | 4,037 | 4,193 | 4,293 | 4,495 |
| | Female | 2,441 | 2,528 | 2,581 | 2,707 | 2,757 | 2,936 | 3,106 | 3,214 |
| Business Facilities Management and Business Support Services | Total | 2,086 | 2,140 | 2,311 | 2,338 | 2,431 | 2,493 | 2,655 | 2,804 |
| | Male | 2,379 | 2,430 | 2,731 | 2,781 | 2,861 | 2,966 | 3,226 | 3,290 |
| | Female | 1,748 | 1,783 | 1,832 | 1,843 | 1,950 | 2,042 | 2,162 | 2,347 |
| Education | Total | 2,991 | 3,056 | 3,124 | 3,107 | 3,200 | 3,446 | 3,469 | 3,582 |
| | Male | 3,682 | 3,742 | 3,849 | 3,919 | 4,003 | 4,215 | 4,226 | 4,428 |
| | Female | 2,311 | 2,373 | 2,427 | 2,378 | 2,494 | 2,727 | 2,772 | 2,819 |
| Human Health and Social Work Activities | Total | 2,267 | 2,334 | 2,268 | 2,323 | 2,354 | 2,476 | 2,584 | 2,680 |
| | Male | 3,422 | 3,519 | 3,472 | 3,631 | 3,755 | 3,995 | 4,058 | 4,088 |
| | Female | 1,943 | 2,013 | 1,965 | 2,003 | 2,035 | 2,117 | 2,251 | 2,360 |
| Arts, Sports and Recreation Related Services | Total | 2,209 | 2,249 | 2,341 | 2,306 | 2,451 | 2,648 | 2,738 | 2,844 |
| | Male | 2,551 | 2,617 | 2,694 | 2,660 | 2,779 | 2,992 | 3,086 | 3,163 |
| | Female | 1,758 | 1,789 | 1,878 | 1,843 | 1,991 | 2,199 | 2,295 | 2,413 |
| Membership Organizations, Repair and Other Personal Services | Total | 2,039 | 2,141 | 2,114 | 2,074 | 2,158 | 2,371 | 2,487 | 2,613 |
| | Male | 2,364 | 2,468 | 2,524 | 2,549 | 2,640 | 2,793 | 2,933 | 3,058 |
| | Female | 1,465 | 1,517 | 1,437 | 1,414 | 1,404 | 1,624 | 1,762 | 1,888 |

Note: 1) Wage is monthly pay (regular payment + overtime payment)

2) 9th Standard Industrial Classification code applied

2) Labor Productivity Index

(Unit: 2015=100, Percent)

| Year | Industry Total | | Mining and Quarrying | | Manufacturing | | Electricity, Gas, Steam and Water Supply | |
|------|----------------|-------------|----------------------|-------------|---------------|-------------|--|-------------|
| | Index | Growth Rate | Index | Growth Rate | Index | Growth Rate | Index | Growth Rate |
| 2011 | 107.8 | — | 94.3 | — | 107.9 | — | 104.9 | — |
| 2012 | 107.4 | -0.4 | 97.9 | 3.8 | 107.4 | -0.5 | 108.3 | 3.2 |
| 2013 | 106.5 | -0.8 | 109.2 | 11.5 | 106.4 | -0.9 | 109.3 | 0.9 |
| 2014 | 103.7 | -2.6 | 96.8 | -11.4 | 103.6 | -2.6 | 106.4 | -2.7 |
| 2015 | 100 | -3.6 | 100 | 3.3 | 100 | -3.5 | 100 | -6.0 |
| 2016 | 102.8 | 2.8 | 106.6 | 6.6 | 102.9 | 2.9 | 99 | -1.0 |
| 2017 | 106.3 | 3.4 | 103.2 | -3.2 | 106.3 | 3.3 | 102.1 | 3.1 |
| 2018 | 109.9 | 3.4 | 91.6 | -11.2 | 109.8 | 3.3 | 104.5 | 2.4 |
| 2019 | 111 | 1.0 | 78.2 | -14.6 | 111.3 | 1.4 | 100 | -4.3 |

Note: 1) Labor productivity index = output index (industrial production index) ÷ labor input index × 100

* Labor input: industry large classification (1-digit) shows the employed time (employed person x employed time) of one or more employees, industry middle classification (2-digit) shows the working time (workers x working hours) of one or more employees

* Output is the industrial production index of Statistics Korea

* Few industries in industry large classification and labor productivity index of industry middle classification were estimated from 2008 due to discrepancy between the output and the labor input

* Changes from reorganization of the Labor Force Survey at Establishments were retrospectively applied from 2011

2) All industries refer to mining and quarrying industry including electricity, gas, steam and water supply

3) Growth rate shows year-on-year growth

* Year-on-year growth rate (%) = (current year corresponding period index - previous year corresponding period index) ÷ previous year corresponding period index × 100

4) Calculated per hour with physical productivity index

5) Applied Korea Standard Industrial Classification (KSIC 9th)

Source: Korea Productivity Center Productivity Statistics DB (Search Date: May 28, 2020), Labor Productivity Index (Annual)

5. Labor Market International Comparison

1) Total Employment Rate

(Unit: Employment/population ratio for age 15–64, Percent)

| Classification | 2010 | 2011 | 2012 | 2013 | 2014 | 2015 | 2016 | 2017 | 2018 | 2019 |
|----------------|------|------|------|------|------|------|------|------|------|------|
| Australia | 72,4 | 72,7 | 72,3 | 72,0 | 71,6 | 72,2 | 72,4 | 73,0 | 73,8 | 74,3 |
| Austria | 70,8 | 71,1 | 71,4 | 71,4 | 71,1 | 71,1 | 71,5 | 72,2 | 73,0 | 73,6 |
| Belgium | 62,0 | 61,9 | 61,8 | 61,8 | 61,9 | 61,8 | 62,3 | 63,1 | 64,5 | 65,3 |
| Canada | 71,5 | 71,8 | 72,1 | 72,4 | 72,3 | 72,5 | 72,6 | 73,4 | 73,8 | 74,4 |
| Chile | 59,3 | 61,3 | 61,8 | 62,3 | 62,2 | 62,4 | 62,2 | 62,7 | 62,6 | 62,4 |
| Czech Republic | 65,0 | 65,7 | 66,5 | 67,7 | 69,0 | 70,2 | 72,0 | 73,6 | 74,8 | 75,1 |
| Denmark | 71,9 | 71,7 | 71,1 | 70,8 | 71,2 | 72,1 | 72,8 | 73,3 | 74,3 | 75,2 |
| Estonia | 61,2 | 65,3 | 67,2 | 68,5 | 69,6 | 71,8 | 72,0 | 74,1 | 74,7 | 75,2 |
| Finland | 68,3 | 69,2 | 69,5 | 69,1 | 68,9 | 68,7 | 69,2 | 70,1 | 72,2 | 73,1 |
| France | 63,5 | 63,4 | 63,5 | 63,5 | 63,7 | 63,8 | 64,2 | 64,7 | 65,4 | 65,5 |
| Germany | 71,2 | 72,7 | 73,0 | 73,5 | 73,8 | 74,0 | 74,7 | 75,2 | 75,9 | 76,7 |
| Greece | 59,1 | 55,1 | 50,8 | 48,8 | 49,4 | 50,8 | 52,0 | 53,5 | 54,9 | 56,5 |
| Hungary | 55,0 | 55,4 | 56,7 | 58,1 | 61,8 | 63,9 | 66,5 | 68,2 | 69,2 | 70,1 |
| Iceland | 78,9 | 79,0 | 80,2 | 81,8 | 82,2 | 84,2 | 86,3 | 85,8 | 84,8 | 83,8 |
| Ireland | 61,0 | 60,1 | 59,9 | 61,7 | 63,1 | 64,8 | 66,5 | 67,7 | 68,8 | 69,8 |
| Israel | 65,2 | 65,8 | 66,5 | 67,1 | 67,9 | 68,3 | 68,6 | 69,0 | 69,0 | 68,9 |
| Italy | 56,8 | 56,8 | 56,6 | 55,5 | 55,7 | 56,3 | 57,2 | 58,0 | 58,5 | 59,0 |
| Japan | 70,1 | 70,3 | 70,6 | 71,7 | 72,7 | 73,3 | 74,3 | 75,3 | 76,8 | 77,6 |
| Korea | 63,4 | 63,9 | 64,3 | 64,6 | 65,6 | 65,9 | 66,1 | 66,6 | 66,6 | 66,8 |
| Latvia | 58,5 | 60,8 | 63,0 | 65,0 | 66,3 | 68,1 | 68,7 | 70,1 | 71,8 | 72,3 |
| Luxembourg | 65,2 | 64,6 | 65,8 | 65,7 | 66,6 | 66,1 | 65,6 | 66,3 | 67,1 | 67,9 |
| Mexico | 59,7 | 60,0 | 60,9 | 60,8 | 60,4 | 60,7 | 61,0 | 61,1 | 61,5 | 62,2 |
| Netherlands | 74,0 | 74,2 | 74,4 | 73,6 | 73,1 | 74,1 | 74,8 | 75,8 | 77,2 | 78,2 |
| New Zealand | 72,2 | 72,5 | 72,0 | 72,9 | 74,3 | 74,3 | 75,6 | 76,9 | 77,5 | 77,4 |
| Norway | 75,3 | 75,3 | 75,7 | 75,4 | 75,2 | 74,8 | 74,3 | 74,0 | 74,8 | 75,3 |
| Poland | 58,9 | 59,3 | 59,7 | 60,0 | 61,7 | 62,9 | 64,5 | 66,1 | 67,4 | 68,2 |
| Portugal | 65,3 | 63,8 | 61,4 | 60,6 | 62,6 | 63,9 | 65,2 | 67,8 | 69,7 | 70,5 |
| Slovakia | 58,8 | 59,3 | 59,7 | 59,9 | 61,0 | 62,7 | 64,9 | 66,2 | 67,6 | 68,4 |
| Slovenia | 66,2 | 64,4 | 64,1 | 63,3 | 63,9 | 65,2 | 65,8 | 69,3 | 71,1 | 71,8 |
| Spain | 59,7 | 58,8 | 56,5 | 55,6 | 56,8 | 58,7 | 60,5 | 62,1 | 63,4 | 64,3 |
| Sweden | 72,1 | 73,6 | 73,8 | 74,4 | 74,9 | 75,5 | 76,2 | 76,9 | 77,4 | 77,1 |
| Switzerland | 77,3 | 78,3 | 78,5 | 78,4 | 78,8 | 79,2 | 79,6 | 79,8 | 80,1 | 80,5 |
| Turkey | 46,3 | 48,4 | 48,9 | 49,5 | 49,5 | 50,2 | 50,6 | 51,5 | 52,0 | 50,3 |
| UK | 70,1 | 69,8 | 70,5 | 71,2 | 72,3 | 73,4 | 73,8 | 74,7 | 75,0 | 75,6 |
| USA | 66,7 | 66,6 | 67,1 | 67,4 | 68,1 | 68,7 | 69,4 | 70,1 | 70,7 | 71,4 |
| OECD Total | 64,4 | 64,7 | 65,0 | 65,2 | 65,8 | 66,4 | 67,0 | 67,7 | 68,4 | 68,8 |

Source: OECD.Stat, (<http://stats.oecd.org/>). Labour Force Statistics by sex and age—indicators. (Search Date: June 26, 2020)

2) Employment Rate for Age 15-24

(Unit: Employment/population ratio, Percent)

| Classification | 2010 | 2011 | 2012 | 2013 | 2014 | 2015 | 2016 | 2017 | 2018 | 2019 |
|----------------|------|------|------|------|------|------|------|------|------|------|
| Australia | 60,5 | 60,4 | 59,6 | 58,7 | 57,7 | 58,4 | 58,3 | 58,5 | 59,9 | 60,2 |
| Austria | 52,8 | 53,9 | 53,7 | 53,1 | 52,1 | 51,3 | 51,0 | 50,6 | 51,3 | 51,6 |
| Belgium | 25,2 | 26,0 | 25,3 | 23,6 | 23,2 | 23,4 | 22,7 | 22,7 | 25,0 | 26,6 |
| Canada | 54,9 | 55,3 | 54,3 | 55,1 | 55,5 | 55,8 | 55,4 | 56,5 | 56,3 | 57,5 |
| Chile | 30,5 | 31,7 | 31,1 | 30,4 | 30,1 | 30,2 | 29,2 | 28,3 | 27,6 | 25,4 |
| Czech Republic | 25,2 | 24,7 | 25,2 | 25,6 | 27,1 | 28,4 | 28,6 | 29,1 | 28,4 | 28,0 |
| Denmark | 54,0 | 53,0 | 51,3 | 49,5 | 50,0 | 51,3 | 52,3 | 52,9 | 53,7 | 55,0 |
| Estonia | 26,1 | 31,9 | 33,7 | 33,4 | 34,4 | 37,4 | 38,6 | 41,6 | 42,5 | 40,7 |
| Finland | 40,5 | 42,3 | 43,3 | 43,2 | 43,0 | 42,4 | 43,3 | 44,1 | 45,6 | 46,3 |
| France | 29,6 | 29,1 | 28,1 | 27,9 | 27,6 | 27,9 | 27,8 | 28,7 | 29,9 | 29,7 |
| Germany | 46,8 | 48,2 | 46,6 | 46,9 | 46,1 | 45,3 | 45,7 | 46,5 | 47,2 | 48,5 |
| Greece | 20,1 | 16,1 | 13,0 | 11,8 | 13,3 | 13,0 | 13,0 | 14,1 | 14,0 | 14,6 |
| Hungary | 18,3 | 18,0 | 18,5 | 20,1 | 23,5 | 25,7 | 28,1 | 29,0 | 29,0 | 28,5 |
| Iceland | 62,1 | 63,3 | 66,0 | 70,4 | 69,7 | 72,6 | 77,1 | 75,3 | 74,9 | 71,4 |
| Ireland | 38,7 | 36,2 | 34,8 | 36,6 | 36,8 | 37,8 | 42,0 | 40,0 | 40,3 | 41,2 |
| Israel | 45,1 | 44,4 | 43,5 | 44,4 | 44,5 | 44,4 | 44,3 | 44,8 | 43,7 | 42,9 |
| Italy | 20,2 | 19,2 | 18,5 | 16,3 | 15,6 | 15,6 | 16,6 | 17,1 | 17,7 | 18,5 |
| Japan | 39,2 | 39,1 | 38,5 | 39,7 | 40,3 | 40,7 | 42,5 | 42,5 | 46,0 | 47,4 |
| Korea | 22,8 | 23,1 | 24,1 | 23,9 | 25,6 | 26,7 | 26,9 | 27,2 | 26,2 | 26,5 |
| Latvia | 25,4 | 25,8 | 28,7 | 30,2 | 32,5 | 34,5 | 32,8 | 33,0 | 33,1 | 31,8 |
| Luxembourg | 21,2 | 20,7 | 21,7 | 21,9 | 20,4 | 29,1 | 24,9 | 25,8 | 28,4 | 28,7 |
| Mexico | 42,5 | 42,3 | 42,8 | 42,0 | 41,2 | 41,0 | 40,8 | 40,8 | 40,7 | 41,6 |
| Netherlands | 60,7 | 61,3 | 61,1 | 60,1 | 58,8 | 60,8 | 60,8 | 62,3 | 63,9 | 65,3 |
| New Zealand | 49,4 | 49,2 | 48,6 | 49,2 | 51,6 | 52,9 | 54,0 | 55,0 | 56,3 | 56,6 |
| Norway | 51,4 | 50,8 | 52,2 | 51,8 | 50,1 | 50,4 | 48,5 | 48,2 | 49,1 | 50,0 |
| Poland | 26,4 | 24,9 | 24,7 | 24,2 | 25,8 | 26,0 | 28,4 | 29,6 | 31,0 | 31,7 |
| Portugal | 27,9 | 26,6 | 23,0 | 21,7 | 22,4 | 22,8 | 23,9 | 25,9 | 27,2 | 28,0 |
| Slovakia | 20,5 | 20,0 | 20,1 | 20,4 | 21,8 | 23,3 | 25,2 | 26,9 | 27,5 | 24,9 |
| Slovenia | 34,1 | 31,5 | 27,3 | 26,5 | 26,8 | 29,6 | 28,6 | 34,7 | 35,2 | 33,3 |
| Spain | 27,4 | 24,2 | 20,3 | 18,6 | 18,5 | 20,0 | 20,5 | 22,9 | 24,3 | 24,9 |
| Sweden | 38,6 | 40,8 | 40,0 | 41,5 | 42,6 | 43,7 | 44,3 | 44,8 | 44,5 | 43,8 |
| Switzerland | 62,5 | 63,3 | 62,0 | 62,1 | 62,1 | 61,6 | 62,5 | 63,1 | 62,6 | 61,2 |
| Turkey | 30,0 | 32,1 | 31,5 | 32,2 | 33,5 | 34,2 | 34,1 | 34,3 | 35,0 | 33,1 |
| UK | 50,0 | 49,3 | 49,3 | 49,5 | 50,5 | 53,5 | 53,4 | 54,0 | 53,7 | 54,1 |
| USA | 45,0 | 45,5 | 46,0 | 46,5 | 47,6 | 48,6 | 49,4 | 50,3 | 50,5 | 51,2 |
| OECD Total | 39,4 | 39,6 | 39,5 | 39,6 | 40,1 | 40,7 | 41,1 | 41,6 | 42,2 | 42,5 |

Source: OECD.Stat, (<http://stats.oecd.org/>). Labour Force Statistics by sex and age-indicators. (Search Date: June 26, 2020)

3) Employment Rate for Age 25-54

(Unit: Employment/population ratio, Percent)

| Classification | 2010 | 2011 | 2012 | 2013 | 2014 | 2015 | 2016 | 2017 | 2018 | 2019 |
|----------------|------|------|------|------|------|------|------|------|------|------|
| Australia | 79,5 | 79,8 | 79,5 | 79,1 | 78,8 | 79,3 | 79,7 | 80,2 | 81,0 | 81,6 |
| Austria | 83,3 | 84,1 | 84,3 | 84,0 | 83,4 | 83,5 | 83,6 | 84,1 | 84,6 | 85,3 |
| Belgium | 80,0 | 79,3 | 79,3 | 79,0 | 79,1 | 78,5 | 79,1 | 79,5 | 80,4 | 80,8 |
| Canada | 80,5 | 81,0 | 81,4 | 81,6 | 81,2 | 81,4 | 81,4 | 82,3 | 82,7 | 83,3 |
| Chile | 72,1 | 74,2 | 74,5 | 75,2 | 74,9 | 74,9 | 74,8 | 74,9 | 74,9 | 74,8 |
| Czech Republic | 82,2 | 82,8 | 82,9 | 83,5 | 83,8 | 84,5 | 85,7 | 86,7 | 87,5 | 87,4 |
| Denmark | 82,5 | 82,1 | 81,4 | 81,3 | 81,2 | 81,5 | 81,5 | 81,4 | 82,4 | 82,7 |
| Estonia | 74,8 | 78,2 | 79,4 | 80,3 | 80,7 | 82,8 | 82,4 | 83,8 | 84,2 | 84,2 |
| Finland | 81,5 | 82,3 | 82,0 | 81,0 | 80,4 | 79,9 | 79,9 | 80,6 | 82,5 | 83,2 |
| France | 81,3 | 80,8 | 80,3 | 80,0 | 79,8 | 79,4 | 79,7 | 80,0 | 80,6 | 80,9 |
| Germany | 81,5 | 83,0 | 83,3 | 83,4 | 83,5 | 83,7 | 83,9 | 84,2 | 84,9 | 85,4 |
| Greece | 73,2 | 68,8 | 63,9 | 61,3 | 62,4 | 64,5 | 66,0 | 67,4 | 68,9 | 70,8 |
| Hungary | 72,5 | 73,0 | 74,6 | 75,7 | 79,2 | 80,6 | 82,2 | 83,7 | 84,1 | 84,4 |
| Iceland | 83,7 | 84,0 | 85,1 | 85,5 | 85,7 | 87,8 | 89,6 | 89,6 | 88,9 | 88,1 |
| Ireland | 70,2 | 69,1 | 69,4 | 71,3 | 73,1 | 74,7 | 75,8 | 78,1 | 79,2 | 80,3 |
| Israel | 74,9 | 75,8 | 76,8 | 77,1 | 78,2 | 78,7 | 79,2 | 79,7 | 80,1 | 80,2 |
| Italy | 71,1 | 71,1 | 70,4 | 68,5 | 67,9 | 68,2 | 68,8 | 69,4 | 69,8 | 70,5 |
| Japan | 79,9 | 80,2 | 80,5 | 81,4 | 82,1 | 82,5 | 83,3 | 84,1 | 85,2 | 85,8 |
| Korea | 73,8 | 74,4 | 74,7 | 75,1 | 75,8 | 76,0 | 76,2 | 76,3 | 76,4 | 76,4 |
| Latvia | 72,6 | 75,0 | 76,3 | 77,9 | 78,2 | 79,2 | 79,7 | 81,2 | 82,7 | 83,1 |
| Luxembourg | 82,3 | 82,0 | 83,1 | 82,9 | 83,7 | 82,6 | 82,5 | 83,7 | 83,9 | 84,3 |
| Mexico | 69,1 | 69,6 | 70,6 | 70,6 | 70,1 | 70,8 | 71,2 | 71,3 | 71,8 | 72,4 |
| Netherlands | 84,4 | 84,0 | 83,6 | 82,2 | 81,7 | 82,2 | 82,9 | 83,5 | 84,6 | 85,2 |
| New Zealand | 79,9 | 80,4 | 79,7 | 80,8 | 81,8 | 81,7 | 83,1 | 84,1 | 84,5 | 84,8 |
| Norway | 84,7 | 84,7 | 84,6 | 84,1 | 83,9 | 83,1 | 82,7 | 82,4 | 83,3 | 83,6 |
| Poland | 77,2 | 77,3 | 77,2 | 77,0 | 78,4 | 79,5 | 80,3 | 81,4 | 82,4 | 82,9 |
| Portugal | 79,2 | 77,8 | 75,5 | 74,6 | 77,4 | 78,8 | 80,2 | 82,5 | 84,3 | 85,2 |
| Slovakia | 75,8 | 76,5 | 76,4 | 76,0 | 76,8 | 78,1 | 80,0 | 80,0 | 81,2 | 82,0 |
| Slovenia | 83,7 | 83,1 | 83,3 | 81,9 | 81,9 | 82,9 | 83,5 | 86,1 | 87,5 | 88,6 |
| Spain | 70,0 | 69,1 | 66,7 | 65,8 | 67,4 | 69,4 | 71,5 | 73,2 | 74,7 | 75,8 |
| Sweden | 84,0 | 85,1 | 85,2 | 85,4 | 85,4 | 85,6 | 85,9 | 86,3 | 86,6 | 86,4 |
| Switzerland | 84,3 | 85,4 | 85,7 | 85,2 | 85,8 | 86,3 | 86,3 | 86,2 | 86,7 | 87,5 |
| Turkey | 55,4 | 57,5 | 58,3 | 59,1 | 58,8 | 59,5 | 60,0 | 61,1 | 61,4 | 59,8 |
| UK | 79,6 | 79,7 | 80,2 | 80,6 | 81,6 | 82,3 | 82,6 | 83,6 | 83,6 | 84,2 |
| USA | 75,1 | 75,1 | 75,7 | 75,9 | 76,7 | 77,2 | 77,9 | 78,6 | 79,4 | 80,0 |
| OECD Total | 75,1 | 75,4 | 75,6 | 75,6 | 76,0 | 76,6 | 77,1 | 77,8 | 78,4 | 78,7 |

Source: OECD.Stat. (<http://stats.oecd.org/>). Labour Force Statistics by sex and age—indicators. (Search Date: June 26, 2020)

4) Employment Rate for Age 55-64

(Unit: Employment/population ratio, Percent)

| Classification | 2010 | 2011 | 2012 | 2013 | 2014 | 2015 | 2016 | 2017 | 2018 | 2019 |
|----------------|------|------|------|------|------|------|------|------|------|------|
| Australia | 60,6 | 61,2 | 61,4 | 61,4 | 61,4 | 62,1 | 62,5 | 63,6 | 63,8 | 64,5 |
| Austria | 41,2 | 39,9 | 41,6 | 43,8 | 45,1 | 46,3 | 49,2 | 51,3 | 54,0 | 54,5 |
| Belgium | 37,3 | 38,7 | 39,5 | 41,7 | 42,7 | 44,0 | 45,4 | 48,3 | 50,3 | 52,1 |
| Canada | 58,1 | 58,4 | 59,4 | 60,3 | 60,4 | 60,9 | 61,6 | 62,2 | 62,9 | 63,2 |
| Chile | 58,0 | 59,7 | 62,7 | 64,0 | 64,2 | 64,5 | 63,8 | 65,3 | 65,6 | 66,1 |
| Czech Republic | 46,5 | 47,6 | 49,4 | 51,6 | 54,0 | 55,5 | 58,5 | 62,1 | 65,1 | 66,7 |
| Denmark | 55,8 | 57,2 | 58,2 | 59,2 | 61,0 | 63,5 | 66,4 | 68,5 | 69,6 | 71,8 |
| Estonia | 53,8 | 57,4 | 60,3 | 62,5 | 64,0 | 64,5 | 65,1 | 67,9 | 68,7 | 72,1 |
| Finland | 56,3 | 57,0 | 58,2 | 58,7 | 59,2 | 60,0 | 61,4 | 62,5 | 65,4 | 66,8 |
| France | 39,8 | 41,4 | 44,5 | 45,6 | 46,9 | 48,7 | 49,8 | 51,3 | 52,2 | 53,0 |
| Germany | 57,7 | 60,0 | 61,6 | 63,6 | 65,6 | 66,2 | 68,6 | 70,1 | 71,4 | 72,7 |
| Greece | 42,4 | 39,5 | 36,5 | 35,6 | 34,0 | 34,3 | 36,3 | 38,3 | 41,1 | 43,2 |
| Hungary | 33,6 | 35,3 | 36,1 | 37,9 | 41,8 | 45,3 | 49,8 | 51,7 | 54,4 | 56,7 |
| Iceland | 80,5 | 79,5 | 79,2 | 81,6 | 84,1 | 84,5 | 84,4 | 83,4 | 80,6 | 81,0 |
| Ireland | 50,4 | 50,1 | 49,3 | 51,2 | 52,6 | 55,4 | 56,9 | 58,6 | 61,1 | 62,9 |
| Israel | 59,6 | 61,1 | 63,1 | 64,6 | 65,1 | 66,2 | 66,5 | 66,8 | 67,3 | 67,9 |
| Italy | 36,5 | 37,8 | 40,3 | 42,7 | 46,2 | 48,2 | 50,3 | 52,2 | 53,7 | 54,3 |
| Japan | 65,2 | 65,1 | 65,4 | 66,8 | 68,7 | 70,0 | 71,4 | 73,3 | 75,2 | 76,3 |
| Korea | 60,9 | 62,2 | 63,1 | 64,4 | 65,8 | 66,0 | 66,2 | 67,5 | 66,8 | 66,9 |
| Latvia | 47,8 | 50,5 | 52,8 | 54,8 | 56,4 | 59,4 | 61,4 | 62,3 | 65,4 | 67,3 |
| Luxembourg | 39,6 | 39,3 | 41,0 | 40,5 | 42,5 | 38,4 | 39,6 | 39,8 | 40,5 | 43,1 |
| Mexico | 53,5 | 53,8 | 55,0 | 55,0 | 55,0 | 54,7 | 55,0 | 54,9 | 55,3 | 56,0 |
| Netherlands | 53,2 | 55,2 | 57,6 | 59,2 | 59,9 | 61,7 | 63,5 | 65,7 | 67,7 | 69,7 |
| New Zealand | 73,2 | 73,7 | 73,8 | 74,3 | 76,2 | 75,3 | 76,2 | 78,3 | 78,0 | 76,3 |
| Norway | 68,6 | 69,6 | 70,9 | 71,1 | 72,2 | 72,2 | 72,6 | 71,9 | 72,0 | 72,8 |
| Poland | 34,1 | 36,9 | 38,7 | 40,6 | 42,5 | 44,3 | 46,2 | 48,3 | 48,9 | 49,5 |
| Portugal | 49,5 | 47,8 | 46,5 | 46,9 | 47,8 | 49,9 | 52,1 | 56,2 | 59,2 | 60,4 |
| Slovakia | 40,6 | 41,3 | 43,1 | 44,0 | 44,8 | 46,9 | 49,0 | 53,0 | 54,2 | 57,0 |
| Slovenia | 35,0 | 31,2 | 32,9 | 33,5 | 35,4 | 36,6 | 38,5 | 42,7 | 47,0 | 48,6 |
| Spain | 43,5 | 44,5 | 43,9 | 43,2 | 44,3 | 46,9 | 49,1 | 50,5 | 52,2 | 53,8 |
| Sweden | 70,6 | 72,2 | 73,1 | 73,7 | 74,2 | 74,6 | 75,6 | 76,6 | 78,1 | 77,9 |
| Switzerland | 66,2 | 67,4 | 68,2 | 69,3 | 69,2 | 70,3 | 71,5 | 72,2 | 72,6 | 73,0 |
| Turkey | 29,6 | 31,4 | 31,9 | 31,5 | 31,4 | 31,9 | 33,4 | 34,4 | 35,3 | 33,6 |
| UK | 56,9 | 55,9 | 57,3 | 59,4 | 60,6 | 61,9 | 62,8 | 63,6 | 65,1 | 66,2 |
| USA | 60,3 | 60,0 | 60,7 | 60,9 | 61,3 | 61,5 | 61,8 | 62,5 | 63,1 | 63,7 |
| OECD Total | 53,9 | 54,4 | 55,5 | 56,4 | 57,4 | 58,2 | 59,2 | 60,4 | 61,4 | 62,0 |

Source: OECD.Stat, (<http://stats.oecd.org/>). Labour Force Statistics by sex and age-indicators. (Search Date: June 26, 2020)

5) Average Hours Actually Worked

(Unit: Hours per year)

| Classification | 2010 | 2011 | 2012 | 2013 | 2014 | 2015 | 2016 | 2017 | 2018 |
|----------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| Australia | 1,700 | 1,700 | 1,693 | 1,689 | 1,683 | 1,684 | 1,673 | 1,675 | 1,665 |
| Austria | 1,557 | 1,562 | 1,540 | 1,525 | 1,516 | 1,500 | 1,512 | 1,511 | 1,511 |
| Belgium | 1,546 | 1,560 | 1,560 | 1,558 | 1,545 | 1,545 | 1,545 | 1,545 | 1,545 |
| Canada | 1,715 | 1,713 | 1,722 | 1,716 | 1,710 | 1,712 | 1,706 | 1,695 | 1,708 |
| Chile | 2,070 | 2,047 | 2,024 | 2,015 | 1,990 | 1,988 | 1,974 | 1,954 | 1,941 |
| Czech Republic | 1,800 | 1,806 | 1,776 | 1,763 | 1,777 | 1,756 | 1,779 | 1,784 | 1,792 |
| Denmark | 1,422 | 1,437 | 1,423 | 1,426 | 1,414 | 1,407 | 1,412 | 1,405 | 1,392 |
| Estonia | 1,810 | 1,852 | 1,820 | 1,801 | 1,795 | 1,788 | 1,791 | 1,792 | 1,748 |
| Finland | 1,592 | 1,587 | 1,575 | 1,565 | 1,562 | 1,563 | 1,560 | 1,556 | 1,555 |
| France | 1,540 | 1,546 | 1,541 | 1,526 | 1,518 | 1,519 | 1,526 | 1,522 | 1,520 |
| Germany | 1,390 | 1,393 | 1,375 | 1,363 | 1,367 | 1,370 | 1,363 | 1,360 | 1,363 |
| Greece | 1,932 | 1,949 | 1,966 | 1,970 | 1,933 | 1,943 | 1,942 | 1,956 | 1,956 |
| Hungary | 1,777 | 1,770 | 1,750 | 1,745 | 1,752 | 1,749 | 1,760 | 1,741 | 1,741 |
| Iceland | 1,514 | 1,524 | 1,510 | 1,510 | 1,503 | 1,504 | 1,494 | 1,483 | 1,469 |
| Ireland | 1,702 | 1,702 | 1,707 | 1,720 | 1,731 | 1,741 | 1,739 | 1,738 | 1,782 |
| Israel | 1,957 | 1,947 | 1,919 | 1,908 | 1,895 | 1,895 | 1,922 | 1,918 | 1,910 |
| Italy | 1,777 | 1,773 | 1,734 | 1,720 | 1,717 | 1,718 | 1,722 | 1,719 | 1,723 |
| Japan | 1,733 | 1,728 | 1,745 | 1,734 | 1,729 | 1,719 | 1,714 | 1,709 | 1,680 |
| Korea | 2,163 | 2,136 | 2,119 | 2,106 | 2,076 | 2,083 | 2,068 | 2,018 | 1,993 |
| Latvia | 1,738 | 1,753 | 1,738 | 1,732 | 1,741 | 1,708 | 1,709 | 1,695 | 1,699 |
| Lithuania | 1,643 | 1,621 | 1,620 | 1,606 | 1,599 | 1,622 | 1,644 | 1,608 | 1,616 |
| Luxembourg | 1,517 | 1,515 | 1,508 | 1,503 | 1,506 | 1,514 | 1,513 | 1,507 | 1,506 |
| Mexico | 2,150 | 2,121 | 2,120 | 2,136 | 2,134 | 2,140 | 2,146 | 2,148 | 2,148 |
| Netherlands | 1,420 | 1,420 | 1,411 | 1,415 | 1,426 | 1,426 | 1,438 | 1,435 | 1,433 |
| New Zealand | 1,755 | 1,746 | 1,734 | 1,752 | 1,762 | 1,757 | 1,752 | 1,753 | 1,756 |
| Norway | 1,415 | 1,421 | 1,420 | 1,408 | 1,427 | 1,424 | 1,424 | 1,419 | 1,416 |
| Poland | 1,834 | 1,829 | 1,824 | 1,821 | 1,827 | 1,834 | 1,836 | 1,815 | 1,792 |
| Portugal | 1,735 | 1,714 | 1,698 | 1,707 | 1,714 | 1,722 | 1,725 | 1,727 | 1,722 |
| Slovakia | 1,805 | 1,793 | 1,789 | 1,772 | 1,760 | 1,754 | 1,740 | 1,714 | 1,698 |
| Slovenia | 1,680 | 1,663 | 1,645 | 1,662 | 1,682 | 1,688 | 1,653 | 1,622 | 1,603 |
| Spain | 1,710 | 1,716 | 1,701 | 1,694 | 1,695 | 1,700 | 1,702 | 1,690 | 1,701 |
| Sweden | 1,494 | 1,491 | 1,478 | 1,470 | 1,470 | 1,471 | 1,482 | 1,470 | 1,474 |
| Switzerland | 1,624 | 1,619 | 1,603 | 1,583 | 1,575 | 1,590 | 1,590 | 1,570 | 1,561 |
| Turkey | 1,877 | 1,864 | 1,855 | 1,832 | 1,832 | 1,832 | – | – | – |
| UK | 1,506 | 1,518 | 1,531 | 1,541 | 1,547 | 1,531 | 1,545 | 1,543 | 1,538 |
| USA | 1,773 | 1,780 | 1,783 | 1,781 | 1,784 | 1,785 | 1,781 | 1,780 | 1,786 |
| OECD Total | 1,751 | 1,750 | 1,748 | 1,744 | 1,742 | 1,743 | 1,743 | 1,737 | 1,734 |

Note: 1) Average annual hours actually worked = total number of hours worked per year ÷ average number of employees

2) Survey subjects include full-time, part-time, and temporary workers

Source: OECD.Stat. (<http://stats.oecd.org/>). Labour Force Statistics by sex and age-indicators. (Search Date: June 26, 2020)

2020

Human Resources
Development Indicators
in Korea

II . Lifelong Vocational Education and Industry-academia Cooperation



1. Secondary Vocational Education
2. Higher Vocational Education
3. Lifelong Vocational Education
4. Industry–Academia Cooperation

1. Secondary Vocational Education

1) Schools, Students and Teachers of High School Level Vocational Education Institutions by Academic Fields

(Unit: School, Person)

| Year | Agriculture High School | | | Technical High School | | | Commercial High School | | |
|------|-------------------------|----------|----------|-----------------------|----------|----------|------------------------|----------|----------|
| | Schools | Students | Teachers | Schools | Students | Teachers | Schools | Students | Teachers |
| 2007 | 25 | 13,737 | 1,201 | 212 | 186,096 | 13,829 | 199 | 162,988 | 11,190 |
| 2008 | 28 | 15,547 | 1,344 | 209 | 180,580 | 13,627 | 193 | 156,055 | 10,812 |
| 2009 | 29 | 16,298 | 1,396 | 210 | 177,161 | 13,540 | 189 | 151,886 | 10,607 |
| 2010 | 30 | 16,492 | 1,443 | 212 | 169,758 | 13,353 | 190 | 147,435 | 10,541 |
| 2011 | 30 | 10,706 | – | 212 | 106,837 | – | 191 | 94,153 | – |
| 2012 | 37 | 12,026 | – | 202 | 101,222 | – | 186 | 90,524 | – |
| 2013 | 34 | 15,825 | – | 198 | 144,254 | – | 185 | 131,940 | – |
| 2014 | 38 | 16,973 | – | 198 | 140,991 | – | 187 | 127,795 | – |
| 2015 | 38 | 16,564 | – | 197 | 135,146 | – | 184 | 121,222 | – |
| 2016 | 37 | 16,152 | – | 195 | 130,463 | – | 185 | 115,303 | – |
| 2017 | 35 | 14,146 | – | 195 | 124,130 | – | 178 | 106,696 | – |
| 2018 | 35 | 13,151 | – | 195 | 114,447 | – | 176 | 97,380 | – |
| 2019 | 36 | 12,632 | – | 194 | 103,978 | – | 174 | 88,137 | – |

| Year | Fisheries · Marine High School | | | Home Economics · Vocational High School | | | Comprehensive High School | | |
|------|--------------------------------|----------|----------|---|----------|----------|---------------------------|----------|----------|
| | Schools | Students | Teachers | Schools | Students | Teachers | Schools | Students | Teachers |
| 2007 | 7 | 4,043 | 336 | 70 | 37,191 | 3,030 | 189 | 89,956 | 6,963 |
| 2008 | 7 | 3,993 | 328 | 69 | 38,537 | 3,105 | 191 | 92,780 | 7,190 |
| 2009 | 7 | 3,899 | 319 | 69 | 38,601 | 3,093 | 187 | 92,981 | 7,122 |
| 2010 | 7 | 3,737 | 323 | 64 | 34,153 | 2,825 | 189 | 94,554 | 7,203 |
| 2011 | 7 | 2,292 | – | 63 | 21,460 | – | 186 | 59,220 | – |
| 2012 | 8 | 1,974 | – | 42 | 15,361 | – | – | – | – |
| 2013 | 9 | 3,056 | – | 44 | 22,370 | – | – | – | – |
| 2014 | 8 | 2,563 | – | 44 | 22,277 | – | – | – | – |
| 2015 | 8 | 2,522 | – | 46 | 23,769 | – | – | – | – |
| 2016 | 8 | 2,408 | – | 46 | 23,341 | – | – | – | – |
| 2017 | 7 | 1,983 | – | 50 | 24,386 | – | – | – | – |
| 2018 | 7 | 1,684 | – | 50 | 22,664 | – | – | – | – |
| 2019 | 7 | 1,499 | – | 52 | 21,085 | – | – | – | – |

Note: 1) The number of teachers by academic field is not included in education statistics from 2011
 2) As comprehensive high schools were converted to general high schools pursuant to amendment of the Enforcement Decree of the Elementary and Secondary Education Act in 2010, comprehensive high schools are no longer included in education statistics from 2012
 Source: Ministry of Education, Korean Educational Development Institute, Statistics Yearbook of Education (Annual)

2) Regional Distribution of High School Level Vocational Education Institutions

(Unit: School, Person)

| Classification | Vocational Education Specialized High School | | | Meister High School | | |
|----------------|--|----------|----------|---------------------|----------|----------|
| | Schools | Students | Teachers | Schools | Students | Teachers |
| Total | 489 | 25,387 | 230,098 | 47 | 2,763 | 17,754 |
| National | — | — | — | 5 | 472 | 3,292 |
| Public | 270 | 14,225 | 116,883 | 37 | 1,940 | 12,056 |
| Private | 219 | 11,162 | 113,215 | 5 | 351 | 2,406 |
| Seoul | 70 | 4,410 | 41,265 | 4 | 279 | 1,795 |
| National | — | — | — | — | — | — |
| Public | 17 | 1,357 | 11,148 | 2 | 142 | 864 |
| Private | 53 | 3,053 | 30,117 | 2 | 137 | 931 |
| Busan | 34 | 1,816 | 16,561 | 3 | 234 | 1,710 |
| National | — | — | — | 2 | 182 | 1,362 |
| Public | 9 | 537 | 4,713 | 1 | 52 | 348 |
| Private | 25 | 1,279 | 11,848 | — | — | — |
| Daegu | 16 | 1,260 | 12,280 | 4 | 279 | 1,740 |
| National | — | — | — | — | — | — |
| Public | 5 | 436 | 3,914 | 4 | 279 | 1,740 |
| Private | 11 | 824 | 8,366 | — | — | — |
| Incheon | 27 | 1,674 | 15,904 | 2 | 129 | 820 |
| National | — | — | — | 1 | 52 | 352 |
| Public | 17 | 1,186 | 10,342 | 1 | 77 | 468 |
| Private | 10 | 488 | 5,562 | — | — | — |
| Gwangju | 10 | 667 | 7,037 | 2 | 90 | 481 |
| National | — | — | — | — | — | — |
| Public | 4 | 375 | 3,721 | 2 | 90 | 481 |
| Private | 6 | 292 | 3,316 | — | — | — |
| Daejeon | 10 | 754 | 6,823 | 2 | 117 | 816 |
| National | — | — | — | — | — | — |
| Public | 5 | 427 | 3,409 | 1 | 40 | 228 |
| Private | 5 | 327 | 3,414 | 1 | 77 | 588 |
| Ulsan | 8 | 533 | 5,555 | 3 | 167 | 1,059 |
| National | — | — | — | — | — | — |
| Public | 7 | 470 | 4,905 | 2 | 113 | 714 |
| Private | 1 | 63 | 650 | 1 | 54 | 345 |
| Sejong | 1 | 47 | 363 | — | — | — |
| National | — | — | — | — | — | — |
| Public | 1 | 47 | 363 | — | — | — |
| Private | — | — | — | — | — | — |

<Table continued>

| Classification | Vocational Education Specialized High School | | | Meister High School | | |
|----------------|--|----------|----------|---------------------|----------|----------|
| | Schools | Students | Teachers | Schools | Students | Teachers |
| Gyeonggi | 75 | 4,820 | 45,536 | 2 | 129 | 958 |
| National | — | — | — | — | — | — |
| Public | 41 | 2,718 | 22,441 | 2 | 129 | 958 |
| Private | 34 | 2,102 | 23,095 | — | — | — |
| Gangwon | 24 | 1,032 | 7,065 | 2 | 95 | 580 |
| National | — | — | — | — | — | — |
| Public | 22 | 1,001 | 6,943 | 2 | 95 | 580 |
| Private | 2 | 31 | 122 | — | — | — |
| Chungbuk | 24 | 1,157 | 11,159 | 3 | 144 | 953 |
| National | — | — | — | — | — | — |
| Public | 17 | 851 | 7,686 | 3 | 144 | 953 |
| Private | 7 | 306 | 3,473 | — | — | — |
| Chungnam | 28 | 1,209 | 10,092 | 4 | 152 | 962 |
| National | — | — | — | — | — | — |
| Public | 21 | 933 | 7,225 | 4 | 152 | 962 |
| Private | 7 | 276 | 2,867 | — | — | — |
| Jeonbuk | 28 | 1,085 | 9,259 | 4 | 253 | 1,561 |
| National | — | — | — | 1 | 117 | 758 |
| Public | 17 | 740 | 6,132 | 3 | 136 | 803 |
| Private | 11 | 345 | 3,127 | — | — | — |
| Jeonnam | 46 | 1,648 | 13,063 | 4 | 189 | 1,104 |
| National | — | — | — | — | — | — |
| Public | 35 | 1,095 | 7,678 | 4 | 189 | 1,104 |
| Private | 11 | 553 | 5,385 | — | — | — |
| Gyeongbuk | 48 | 1,476 | 12,851 | 5 | 372 | 2,327 |
| National | — | — | — | 1 | 121 | 820 |
| Public | 28 | 897 | 6,914 | 3 | 168 | 965 |
| Private | 20 | 579 | 5,937 | 1 | 83 | 542 |
| Gyeongnam | 34 | 1,431 | 11,995 | 3 | 134 | 888 |
| National | — | — | — | — | — | — |
| Public | 18 | 787 | 6,059 | 3 | 134 | 888 |
| Private | 16 | 644 | 5,936 | — | — | — |
| Jeju | 6 | 368 | 3,290 | — | — | — |
| National | — | — | — | — | — | — |
| Public | 6 | 368 | 3,290 | — | — | — |
| Private | — | — | — | — | — | — |

Note: 1) Gyeongnam Air Force Aviation Science High School was not included in the survey
 2) Meister High Schools are Special-Purposed high schools and are defined as Industry Demand Customized high schools in accordance with the Enforcement Decree of the Elementary and Secondary Education Act Article 90, Paragraph 1, Sub-paragraph 10

Source: Ministry of Education, Korean Educational Development Institute, Statistics Yearbook of Education (2019)

3) Middle School Graduates Advancement to Higher Schooling

(Unit: Person, School)

| Year | Graduates | Advanced into Higher Schooling | | | | | | |
|------|-----------|--------------------------------|---------------------|-------------------------|------------------------------|------------------------|--------|-------|
| | | Total | General High School | Specialized High School | Special-Purposed High School | Autonomous High School | Other | |
| 2011 | Students | 668,224 | 666,109 | 483,729 | 125,890 | 20,327 | 26,273 | 9,890 |
| | Rate | — | 100.0 | 72.6 | 18.9 | 3.1 | 3.9 | 1.5 |
| 2012 | Students | 645,975 | 644,055 | 462,794 | 121,454 | 20,745 | 32,639 | 6,423 |
| | Rate | — | 100.0 | 71.9 | 18.9 | 3.2 | 5.1 | 1.0 |
| 2013 | Students | 635,827 | 633,990 | 448,792 | 117,197 | 21,179 | 41,538 | 5,284 |
| | Rate | — | 100.0 | 70.8 | 18.5 | 3.3 | 6.6 | 0.8 |
| 2014 | Students | 606,494 | 604,785 | 428,523 | 111,001 | 21,126 | 39,910 | 4,225 |
| | Rate | — | 100.0 | 70.9 | 18.4 | 3.5 | 6.6 | 0.7 |
| 2015 | Students | 587,834 | 586,341 | 418,576 | 105,742 | 21,265 | 36,509 | 4,249 |
| | Rate | — | 100.0 | 71.4 | 18.0 | 3.6 | 6.2 | 0.7 |
| 2016 | Students | 593,614 | 592,075 | 427,554 | 103,799 | 21,601 | 35,254 | 3,867 |
| | Rate | — | 100.0 | 72.2 | 17.5 | 3.6 | 6.0 | 0.7 |
| 2017 | Students | 522,987 | 521,591 | 371,993 | 94,148 | 21,250 | 30,872 | 3,328 |
| | Rate | — | 100.0 | 71.3 | 18.1 | 4.1 | 5.9 | 0.6 |
| 2018 | Students | 457,771 | 456,407 | 323,236 | 81,894 | 21,102 | 27,081 | 3,094 |
| | Rate | — | 100.0 | 70.8 | 17.9 | 4.6 | 5.9 | 0.7 |
| 2019 | Students | 464,717 | 463,130 | 334,083 | 78,630 | 20,995 | 26,458 | 2,964 |
| | Rate | — | 99.7 | 71.9 | 16.9 | 4.5 | 5.7 | 0.6 |

Note: Among 2019 graduates, 16 are employed, 1,571 are unemployed and unknown

Source: Ministry of Education, Korean Educational Development Institute, Statistics Yearbook of Education (Annual)

4) Ratio of Specialized High Schools Among High Schools

(Unit: School, Percent)

| Year | Number of Schools | | |
|------|-------------------|-------------------------|-------|
| | High School Total | Specialized High School | Ratio |
| 2011 | 2,282 | 499 | 21.9 |
| 2012 | 2,303 | 499 | 21.7 |
| 2013 | 2,322 | 494 | 21.3 |
| 2014 | 2,326 | 499 | 21.5 |
| 2015 | 2,344 | 498 | 21.2 |
| 2016 | 2,353 | 497 | 21.1 |
| 2017 | 2,360 | 491 | 20.8 |
| 2018 | 2,358 | 490 | 20.8 |
| 2019 | 2,356 | 489 | 20.8 |

Source: Ministry of Education, Korean Educational Development Institute, Statistics Yearbook of Education (Annual)

5) Meister High Schools

(Unit: School, Number, Person)

| Year | Schools | | | | Classes | | | | Students | | | |
|------|----------|--------|---------|-------|----------|--------|---------|-------|----------|--------|---------|-------|
| | National | Public | Private | Total | National | Public | Private | Total | National | Public | Private | |
| 2013 | 34 | 5 | 25 | 4 | 782 | 174 | 501 | 107 | 15,728 | 3,448 | 10,139 | 2,141 |
| 2014 | 36 | 5 | 27 | 4 | 797 | 174 | 516 | 107 | 15,714 | 3,465 | 10,133 | 2,116 |
| 2015 | 40 | 5 | 30 | 5 | 880 | 174 | 573 | 133 | 17,502 | 3,473 | 11,117 | 2,912 |
| 2016 | 42 | 5 | 32 | 5 | 904 | 174 | 601 | 129 | 17,618 | 3,468 | 11,486 | 2,664 |
| 2017 | 45 | 5 | 35 | 5 | 948 | 172 | 651 | 125 | 18,492 | 3,414 | 12,633 | 2,445 |
| 2018 | 46 | 5 | 36 | 5 | 947 | 170 | 652 | 125 | 18,105 | 3,353 | 12,314 | 2,438 |
| 2019 | 47 | 5 | 37 | 5 | 943 | 168 | 650 | 125 | 17,754 | 3,292 | 12,056 | 2,406 |

Note: Gyeongnam Air Force Aviation Science High School is not surveyed (Enforcement Decree of the Act on Special Cases Concerning the Disclosure of Information by Education-Related Institutions Article 2 (1))

Source: Ministry of Education, Korean Educational Development Institute, Statistics Yearbook of Education (Annual)

6) Meister High School Teachers

(Unit: Number, Person, Percent)

| Classification | Total no. of classes (A) | Teachers | | | | Temporary Teachers | | | | Total no. of Teachers | | | No. of Teachers per Class (B/A) | No. of Teachers per Class in Science High Schools of the Region | |
|----------------|--------------------------|------------------|----------------------|------------------|----------------------|--------------------|----------------------|------------------|----------------------|---------------------------|----------------------------|--------------------------------|---------------------------------|---|------|
| | | General Subjects | | Special Subjects | | General Subjects | | Special Subjects | | | | | | | |
| | | Current No. | Industry Experienced | Current No. | Industry Experienced | Current No. | Industry Experienced | Current No. | Industry Experienced | Total no. of Teachers (B) | Total Industry Experienced | Industry Experienced Ratio (%) | | | |
| 2013 | Total | 791 | 702 | 5 | 1,074 | 329 | 85 | 0 | 117 | 26 | 2,122 | 492 | - | - | - |
| | Average | 22.60 | 20.06 | 1.25 | 30.69 | 10.28 | 3.04 | 0 | 4.50 | 2.17 | 60.63 | 14.06 | 23.19 | 2.68 | 2.70 |
| 2014 | Total | 804 | 721 | 4 | 1,118 | 326 | 92 | 1 | 119 | 29 | 2,136 | 451 | - | - | - |
| | Average | 21.73 | 19.49 | 0.11 | 30.22 | 8.81 | 2.49 | 0.03 | 3.22 | 0.78 | 57.73 | 12.19 | 21.1 | 2.66 | 2.57 |
| 2015 | Total | 876 | 755 | 15 | 1,231 | 382 | 113 | 3 | 167 | 43 | 2,447 | 593 | - | - | - |
| | Average | 21.37 | 18.41 | 0.37 | 30.02 | 9.32 | 2.76 | 0.07 | 4.07 | 1.05 | 59.68 | 14.46 | 24.23 | 2.79 | 2.98 |
| 2016 | Total | 903 | 789 | 19 | 1,266 | 363 | 102 | 2 | 184 | 51 | 2,474 | 562 | - | - | - |
| | Average | 21.00 | 18.35 | 0.44 | 29.44 | 8.44 | 2.37 | 0.05 | 4.28 | 1.19 | 57.53 | 13.07 | 22.72 | 2.29 | 2.81 |
| 2017 | Total | 938 | 832 | 22 | 1,336 | 392 | 110 | 8 | 184 | 38 | 2,462 | 582 | - | - | - |
| | Average | 20.4 | 18.1 | 0.5 | 29.0 | 8.5 | 2.4 | 0.2 | 4.0 | 0.8 | 53.5 | 12.7 | 21.6 | 2.60 | 2.75 |
| 2018 | Total | 933 | 843 | 31 | 1,343 | 360 | 109 | 8 | 213 | 64 | 2,508 | 550 | - | - | - |
| | Average | 19.9 | 17.9 | 0.7 | 28.6 | 7.7 | 2.3 | 0.2 | 4.5 | 1.4 | 53.4 | 11.7 | 21.9 | 2.69 | 2.77 |
| 2019 | Total | 935 | 835 | 18 | 1,342 | 371 | 118 | 2 | 211 | 53 | 2,656 | 444 | - | - | - |
| | Average | 19.5 | 17.4 | 1.5 | 28.0 | 9.3 | 2.5 | 1.0 | 4.9 | 2.5 | 55.3 | 10.6 | 15.0 | 2.86 | 2.70 |

Note: 1) The number of teachers per class for the region's Science High School is estimated based on the February end number of the following year

2) From 2017, the total number of classes (A), teachers, temporary teachers, and the total teachers are displayed to the first decimal place

Source: Meister High School Monitoring Input Status Data (Annual)

7) High School Dropout Rate by Academic Fields

(Units: Person, Percent)

| School System | | High School (Total) | General High School | Special-Purposed High School | Specialized High School | Autonomous High School | | | |
|----------------------------------|----------|----------------------|-----------------------|------------------------------|-------------------------|------------------------|-------------|-----------|----------|
| No. of Students Enrolled | | 1,411,027 (100.0) | 1,001,756 (100.0) | 65,244 (100.0) | 230,098 (100.0) | 113,929 (100.0) | | | |
| Total | | 24,978 (1.8) | 14,677 (1.5) | 915 (1.4) | 8,052 (3.5) | 1,334 (1.2) | | | |
| Expelled, Dropouts and Absentees | Dropouts | Sub Total | 24,101 (1.7) | 14,342 (1.4) | 901 (1.4) | 7,554 (3.3) | 1,304 (1.1) | | |
| | | Disease | 1,176 (0.1) | 820 (0.1) | 42 (0.1) | 239 (0.1) | 75 (0.1) | | |
| | | Domestic Affairs | 262 (0.0) | 128 (0.0) | 8 (0.0) | 123 (0.1) | 3 (0.0) | | |
| | | Sub Total | 6,968 (0.5) | 3,062 (0.3) | 162 (0.2) | 3,499 (1.5) | 245 (0.2) | | |
| | | Inadaptation | Relevant to Study | 3,181 (0.2) | 1,313 (0.1) | 34 (0.1) | 1,731 (0.8) | 103 (0.1) | |
| | | | Interpersonal Problem | 374 (0.0) | 183 (0.0) | 8 (0.0) | 173 (0.1) | 10 (0.0) | |
| | | | School Rules | 310 (0.0) | 115 (0.0) | 9 (0.0) | 177 (0.1) | 9 (0.0) | |
| | | | Other | 3,103 (0.2) | 1,451 (0.1) | 111 (0.2) | 1,418 (0.6) | 123 (0.1) | |
| | | Studying Abroad | 3,567 (0.3) | 2,710 (0.3) | 238 (0.4) | 253 (0.1) | 366 (0.3) | | |
| | | Other | 12,128 (0.9) | 7,622 (0.8) | 451 (0.7) | 3,440 (1.5) | 615 (0.5) | | |
| | | Expulsion | Behavior | Sub Total | 721 (0.1) | 233 (0.0) | 9 (0.0) | 454 (0.2) | 25 (0.0) |
| | | | | School Violence | 148 (0.0) | 51 (0.0) | 3 (0.0) | 89 (0.0) | 5 (0.0) |
| | | | | Violation of School Rules | 573 (0.0) | 182 (0.0) | 6 (0.0) | 365 (0.2) | 20 (0.0) |
| | | Expelled | 67 (0.0) | 43 (0.0) | 5 (0.0) | 18 (0.0) | 1 (0.0) | | |
| | | Postponed Enrollment | 78 (0.0) | 52 (0.0) | - | 22 (0.0) | 4 (0.0) | | |
| Exempts | 11 (0.0) | 7 (0.0) | - | 4 (0.0) | - | | | | |

Note: 1) Postponed enrollment and exempts are limited to those receiving special education

2) Date base: March 1, 2018–February 28, 2019

Source: Ministry of Education, Korean Educational Development Institute. Statistics Yearbook of Education (2019)

8) High School Level Vocational Education Institution (Specialized High School) Graduates Career

(Units: Person, Percent)

| Year | Graduates | Advanced into Higher Schooling ¹⁾ | | Employed | | Military Enlisted | | Unemployed and Unknown | | Special School Majoring Courses | |
|------|-----------|--|------|----------|------|-------------------|------|------------------------|------|---------------------------------|------|
| | | Person | Rate | Person | Rate | Person | Rate | Person | Rate | Person | Rate |
| 2014 | 105,612 | 39,668 | 37.6 | 47,519 | 45.0 | 444 | 0.4 | 17,981 | 17.0 | – | – |
| 2015 | 100,941 | 36,028 | 35.7 | 46,760 | 46.3 | 347 | 0.3 | 17,575 | 17.4 | 231 | 0.2 |
| 2016 | 100,337 | 34,778 | 34.7 | 46,716 | 46.6 | 420 | 0.4 | 18,159 | 18.1 | 264 | 0.3 |
| 2017 | 95,131 | 30,839 | 32.4 | 47,946 | 50.4 | 425 | 0.4 | 15,770 | 16.6 | 151 | 0.2 |
| 2018 | 90,921 | 32,372 | 35.6 | 37,954 | 41.7 | 484 | 0.5 | 19,918 | 21.9 | 193 | 0.2 |
| 2019 | 89,146 | 37,642 | 42.2 | 27,865 | 31.3 | 693 | 0.8 | 22,769 | 25.5 | 177 | 0.2 |

Note: 1) Higher education institutions include university, junior college, university of education, industry university, and air & corr. university

2) Special schools majoring courses: institution that runs a year or longer educational program in career and vocational education to graduates of high school level special education institutions

3) In 2014, special school majoring courses fell under unemployed

Source: Ministry of Education, Korean Educational Development Institute, Statistics Yearbook of Education (Annual)

9) High School Level Vocational Education Institution (Specialized High School) Graduates Advancing to Higher Schooling

(Units: Person, Percent)

| Year | Graduates | Advanced to Higher Schooling | | | | | | |
|------|-----------|------------------------------|------------------|------------------|-------------------------|--------------|----------------|--------------|
| | | Total | Domestic | | | | International | |
| | | | Junior College | University | University of Education | Other | Junior College | University |
| 2014 | 105,612 | 39,668 (37.6) | 27,625 (26.2) | 11,415 (10.8) | 2 (0.0) | 517 (0.5) | 47 (0.0) | 62 (0.1) |
| 2015 | 100,941 | 36,028 (35.7) | 25,864 (25.6) | 9,694 (9.6) | 25 (0.0) | 284 (0.3) | 82 (0.1) | 79 (0.1) |
| 2016 | 100,337 | 34,778 (34.7) | 24,634 (24.6) | 9,566 (9.5) | 12 (0.0) | 397 (0.4) | 60 (0.1) | 109 (0.1) |
| 2017 | 95,131 | 30,839 (32.4) | 21,767 (22.9) | 8,489 (8.9) | 3 (0.0) | 396 (0.4) | 78 (0.1) | 106 (0.1) |
| 2018 | 90,921 | 32,372 (35.6) | 23,333 (25.7) | 8,696 (9.6) | 4 (0.0) | 183 (0.2) | 65 (0.1) | 91 (0.1) |
| 2019 | 89,146 | 37,642 (42.2) | 26,929 (30.2) | 10,386 (11.7) | 6 (0.0) | 135 (0.2) | 34 (0.0) | 152 (0.2) |

Note: 1) University includes industry university, technical college, air & corr. university

2) Figure in parentheses indicate ratio to graduates

3) Graduates is the sum of advanced to higher schooling, employed, unemployed and unknown, military enlisted, special school majoring courses

Source: Ministry of Education, Korean Educational Development Institute, Statistics Yearbook of Education (Annual)

10) College Freshmen's Alma Mater (High Schools)

(Units: Person, Percent)

| Classification | | Total Entrants | General High School | Special-purposed High School ¹⁾ | | Specialized High School | Autonomous High School ²⁾ | Other ³⁾ | |
|--------------------------------------|---------------------------|----------------------------------|---------------------|--|-----------------|-------------------------|--------------------------------------|---------------------|--------------|
| | | | | Total | Industry Demand | | | | |
| 2018 | Total (196 Schools) | 345,149 | 263,544 (76.4) | 805 (0.2) | 14,468 (4.2) | 15,070 (4.4) | 34,988 (10.1) | 17,079 (4.9) | |
| | Establishment | Public (40 Schools) | 78,265 | 61,625 (78.7) | 317 (0.4) | 2,786 (3.6) | 2,530 (3.2) | 8,919 (11.4) | 2,405 (3.1) |
| | | Private (156 Schools) | 266,884 | 201,919 (75.7) | 488 (0.2) | 11,682 (4.4) | 12,540 (4.7) | 26,069 (9.8) | 14,674 (5.4) |
| | Location | Capital Area (73 Schools) | 136,141 | 96,026 (70.5) | 276 (0.2) | 10,252 (7.5) | 5,185 (3.8) | 15,089 (11.1) | 9,589 (7.1) |
| | | Non-capital Area (123 Schools) | 209,008 | 167,518 (80.1) | 529 (0.3) | 4,216 (2.0) | 9,885 (4.7) | 19,899 (9.5) | 7,490 (3.7) |
| | University Type | General University (186 Schools) | 341,283 | 260,246 (76.3) | 805 (0.2) | 14,307 (4.2) | 15,062 (4.4) | 34,636 (10.1) | 17,032 (5.0) |
| University of Education (10 Schools) | | 3,866 | 3,298 (85.3) | 0 (0.0) | 161 (4.2) | 8 (0.2) | 352 (9.1) | 47 (1.2) | |
| 2019 | Total (196 Schools) | 345,643 | 262,193 (75.9) | 973 (0.3) | 14,428 (4.2) | 16,206 (4.7) | 35,039 (10.1) | 17,777 (5.1) | |
| | Establishment | Public (40 Schools) | 78,715 | 61,362 (78.0) | 344 (0.4) | 2,786 (3.5) | 2,803 (3.6) | 8,963 (11.4) | 2,801 (3.5) |
| | | Private (156 Schools) | 266,928 | 200,831 (75.2) | 629 (0.2) | 11,642 (4.4) | 13,403 (5.0) | 26,076 (9.8) | 14,976 (5.6) |
| Location | Capital Area (73 Schools) | 136,545 | 95,903 (70.2) | 332 (0.2) | 10,250 (7.5) | 5,565 (4.1) | 15,311 (11.2) | 9,516 (7.0) | |

| Classification | | Total Entrants | General High School | Special-purposed High School ¹⁾ | | Specialized High School | Autonomous High School ²⁾ | Other ³⁾ |
|-----------------|--------------------------------------|----------------|---------------------|--|-----------------|-------------------------|--------------------------------------|---------------------|
| | | | | Total | Industry Demand | | | |
| University Type | Non-capital Area (123 Schools) | 209,098 | 166,290 (79.5) | 641 (0.3) | 4,178 (2.0) | 10,641 (5.1) | 19,728 (9.4) | 8,261 (4.0) |
| | General University (186 Schools) | 341,773 | 258,955 (75.8) | 973 (0.3) | 14,271 (4.2) | 16,197 (4.7) | 34,634 (10.1) | 17,716 (5.2) |
| | University of Education (10 Schools) | 3,870 | 3,238 (83.7) | 0 (0.0) | 157 (4.1) | 9 (0.2) | 405 (10.5) | 61 (1.5) |

Note: 1) Special-purposed high school: science high school, foreign language high school, international high school, art high school, physical education high school, industry demand customized high school (Meister high school)

2) Autonomous high school: Enforcement Decree of the Elementary and Secondary Education Act, Article 76-2 (4) autonomous high school

3) Other: school for the gifted, school qualification exam, international school, alternative school (including specialized alternative schools), accredited lifelong education facility, foreign high school, etc.

4) Data basis date: March 2019 freshmen

Source: Ministry of Education, University Information Disclosure June, Press Release (June 28, 2019)

11) Status After High School Graduation

(Units: Person, Percent)

| Year | Graduates | Advanced into Higher Schooling (Enrolled) | | Employed | | Military Enlisted | | Other | |
|------|-----------|---|--------------------------------------|----------|-----------------|-------------------|------|----------|------|
| | | Students | Ratio Advanced into Higher Schooling | Students | Employment Rate | Students | Rate | Students | Rate |
| 1990 | 761,922 | 206,790 | 27.1 | 257,905 | 51.0 | 3,244 | 0.4 | 247,942 | 32.5 |
| 2000 | 764,712 | 473,803 | 62.0 | 161,272 | 66.1 | 884 | 0.1 | 82,745 | 10.8 |
| 2010 | 633,539 | 477,384 | 75.4 | 34,182 | 25.9 | 1,405 | 0.2 | 97,861 | 15.4 |
| 2011 | 648,468 | 469,961 | 72.5 | 41,057 | 23.3 | 1,940 | 0.3 | 135,510 | 20.9 |
| 2012 | 636,724 | 453,899 | 71.3 | 53,060 | 29.3 | 1,573 | 0.2 | 128,192 | 20.1 |
| 2013 | 631,197 | 446,474 | 70.7 | 55,443 | 30.2 | 1,389 | 0.2 | 127,891 | 20.3 |
| 2014 | 632,983 | 448,817 | 70.9 | 61,268 | 33.5 | 1,203 | 0.2 | 121,695 | 19.2 |
| 2015 | 615,462 | 435,650 | 70.8 | 61,370 | 34.3 | 972 | 0.2 | 117,470 | 19.1 |
| 2016 | 607,598 | 423,997 | 69.8 | 61,882 | 33.9 | 1,152 | 0.2 | 120,567 | 19.8 |
| 2017 | 583,608 | 401,923 | 68.9 | 62,784 | 34.7 | 927 | 0.2 | 117,974 | 20.2 |
| 2018 | 566,545 | 394,923 | 69.7 | 52,359 | 30.7 | 1,047 | 0.2 | 118,216 | 20.9 |
| 2019 | 568,736 | 400,218 | 70.4 | 41,660 | 7.3 | 1,461 | 0.3 | 125,397 | 22.0 |

Note: 1) Ratio advanced into higher schooling = (among given year's graduates those who advanced into higher schooling ÷ given year's graduates) × 100

2) Employment rate = {among given year's graduates those who are employed ÷ (number of graduates - number of those advanced into higher schooling - number of military enlisted)} × 100

3) Rate = (given year's classified students ÷ given year's graduates) × 100

4) Advanced into higher schooling includes those enrolled in junior college, university, industrial university, university of education, air & corr. university, technical college, and miscellaneous school (since 2005 advanced into higher schooling also includes those enrolled in overseas schools)

5) Advanced into higher schooling: based on successful applicants until 2010 but changed to students who enrolled since 2011

6) For time series comparison of those advanced into higher schooling, until 2010 advanced into higher schooling rate was calculated using university entrants. As a result, the sum of the number of graduates prior to 2010 and the sum of detailed classification of graduates is inconsistent,

7) Other includes unemployed and unknown and special school majoring courses

Source: Ministry of Education, Korean Educational Development Institute, Statistics Yearbook of Education (Annual)

12) High School Level Vocational Education Institution (Specialized High Schools) Graduates Occupational Areas After Graduation

(Units: Person, Percent)

| Classification | 2016 | | 2017 | | 2018 | | 2019 | |
|---|--------|-------|--------|-------|--------|-------|--------|-------|
| | Person | Rate | Person | Rate | Person | Rate | Person | Rate |
| Total | 46,716 | 100,0 | 47,946 | 100,0 | 37,954 | 100,0 | 27,865 | 100,0 |
| Agriculture, Forestry and Fishing | 1,024 | 2,2 | 867 | 1,8 | 682 | 1,8 | 733 | 2,6 |
| Mining and Quarrying | 41 | 0,1 | 146 | 0,3 | 71 | 0,2 | 11 | 0,1 |
| Manufacturing | 19,037 | 40,8 | 19,610 | 40,9 | 15,502 | 40,8 | 11,571 | 41,5 |
| Electricity, Gas, Steam and Water Supply | 898 | 1,9 | 1,151 | 2,4 | 835 | 2,2 | 721 | 2,6 |
| Sewerage, Waste Management, Materials Recovery and Remediation Activities | 72 | 0,2 | 46 | 0,1 | 65 | 0,2 | 26 | 0,1 |
| Construction | 1,735 | 3,7 | 1,891 | 3,9 | 1,521 | 4,0 | 1,095 | 3,9 |
| Wholesale and Retail Trade | 3,969 | 8,5 | 4,042 | 8,4 | 2,427 | 6,4 | 1,524 | 5,5 |
| Transportation | 435 | 0,9 | 425 | 0,9 | 366 | 1,0 | 417 | 1,5 |
| Accommodation and Food Service Activities | 4,733 | 10,1 | 4,739 | 9,9 | 3,415 | 9,0 | 2,588 | 9,3 |
| Information and Communications | 2,228 | 4,8 | 2,483 | 5,2 | 1,853 | 4,9 | 1,159 | 4,2 |
| Financial and Insurance Activities | 1,664 | 3,6 | 1,700 | 3,5 | 1,274 | 3,4 | 1,337 | 4,8 |
| Real Estate Activities and Renting and Leasing | 74 | 0,2 | 80 | 0,2 | 78 | 0,2 | 32 | 0,1 |
| Professional, Scientific and Technical Activities | 2,398 | 5,1 | 2,084 | 4,3 | 2,113 | 5,6 | 1,593 | 5,7 |
| Business Facilities Management and Business Support Services | 1,782 | 3,8 | 2,008 | 4,2 | 2,120 | 5,6 | 412 | 1,5 |
| Public Administration and Defence; Compulsory Social Security | 1,465 | 3,1 | 1,543 | 3,2 | 1,303 | 3,4 | 1,532 | 5,5 |
| Education | 360 | 0,8 | 281 | 0,6 | 303 | 0,8 | 204 | 0,7 |
| Human Health and Social Work Activities | 1,472 | 3,2 | 1,600 | 3,3 | 1,248 | 3,3 | 949 | 3,4 |
| Arts, Sports and Recreation Related Services | 1,100 | 2,4 | 1,448 | 3,0 | 1,186 | 3,1 | 790 | 2,8 |
| Membership Organizations, Repair and Other Personal Services | 1,966 | 4,2 | 1,604 | 3,3 | 1,383 | 3,6 | 1,011 | 3,6 |
| Activities of Households as Employers; Undifferentiated Goods-and Services-Producing Activities of Households for Own Use | 223 | 0,5 | 148 | 0,3 | 162 | 0,4 | 91 | 0,3 |
| Activities of Extraterritorial Organizations and Bodies | 40 | 0,1 | 50 | 0,1 | 47 | 0,1 | 69 | 0,3 |

Source: Ministry of Education, Korean Educational Development Institute. Statistics Yearbook of Education (Annual)

2. Higher Vocational Education

1) Junior College Volume

(Unit: Number of School)

| Year | University | Industrial University | University of Education | Junior College | | | |
|------|------------|-----------------------|-------------------------|----------------|--------|---------|-----|
| | | | | National | Public | Private | |
| 2004 | 171 | 18 | 11 | 158 | 7 | 8 | 143 |
| 2005 | 173 | 18 | 11 | 158 | 6 | 8 | 144 |
| 2006 | 175 | 14 | 11 | 152 | 5 | 8 | 139 |
| 2007 | 175 | 14 | 11 | 148 | 3 | 8 | 137 |
| 2008 | 174 | 13 | 10 | 147 | 2 | 8 | 137 |
| 2009 | 177 | 12 | 10 | 146 | 2 | 8 | 136 |
| 2010 | 179 | 11 | 10 | 145 | 2 | 7 | 136 |
| 2011 | 183 | 9 | 10 | 147 | 3 | 7 | 137 |
| 2012 | 189 | 2 | 10 | 142 | 2 | 7 | 133 |
| 2013 | 188 | 2 | 10 | 140 | 2 | 7 | 131 |
| 2014 | 189 | 2 | 10 | 139 | 2 | 7 | 130 |
| 2015 | 189 | 2 | 10 | 138 | 2 | 7 | 129 |
| 2016 | 189 | 2 | 10 | 138 | 2 | 7 | 129 |
| 2017 | 189 | 2 | 10 | 138 | 2 | 7 | 129 |
| 2018 | 191 | 2 | 10 | 137 | 2 | 7 | 128 |
| 2019 | 191 | 2 | 10 | 137 | 2 | 7 | 128 |

Note: From 2018, branch campuses (5 schools) are counted in the number of universities

Source: Ministry of Education, Korean Educational Development Institute, Statistics Yearbook of Education (Annual)

2) Junior College Student Enrolment Volume

(Unit: Person)

| Year | Total | | National | | Public | | Private | |
|------|---------|---------|----------|--------|--------|--------|---------|---------|
| | Total | Female | Total | Female | Total | Female | Total | Female |
| 2004 | 897,589 | 329,544 | 14,721 | 4,609 | 24,026 | 6,443 | 858,842 | 318,492 |
| 2005 | 853,089 | 316,326 | 13,405 | 4,137 | 22,748 | 5,974 | 816,936 | 306,215 |
| 2006 | 817,994 | 310,714 | 10,911 | 3,288 | 22,642 | 6,004 | 784,441 | 301,422 |
| 2007 | 795,519 | 308,453 | 7,757 | 1,900 | 22,615 | 6,268 | 765,147 | 300,285 |
| 2008 | 771,854 | 305,701 | 4,229 | 829 | 22,473 | 6,342 | 745,152 | 298,530 |
| 2009 | 760,929 | 301,395 | 2,731 | 406 | 22,517 | 6,328 | 735,681 | 294,661 |
| 2010 | 767,087 | 304,846 | 1,709 | 343 | 19,764 | 5,329 | 745,614 | 299,174 |
| 2011 | 776,738 | 310,247 | 2,774 | 492 | 16,016 | 3,985 | 757,948 | 305,770 |
| 2012 | 769,888 | 307,350 | 2,671 | 476 | 14,121 | 3,534 | 753,096 | 303,340 |
| 2013 | 757,721 | 303,169 | 2,536 | 465 | 13,483 | 3,408 | 741,702 | 299,296 |
| 2014 | 740,801 | 296,952 | 2,259 | 468 | 13,082 | 3,218 | 725,460 | 293,266 |
| 2015 | 720,466 | 290,941 | 2,257 | 529 | 12,071 | 3,020 | 706,138 | 287,392 |
| 2016 | 697,214 | 284,738 | 2,167 | 576 | 11,711 | 2,967 | 683,336 | 281,195 |
| 2017 | 677,721 | 278,246 | 2,339 | 639 | 11,176 | 2,787 | 664,206 | 274,820 |
| 2018 | 659,232 | 273,328 | 2,504 | 673 | 10,527 | 2,708 | 646,201 | 269,947 |
| 2019 | 643,560 | 271,179 | 2,672 | 716 | 9,903 | 2,638 | 630,985 | 267,825 |

Source: Ministry of Education, Korean Educational Development Institute, Statistics Yearbook of Education (Annual)

3) Junior College Student Enrolment Volume by Academic Area

(Unit: Person)

| Year | Humanities | Social Sciences | Education | Engineering | Natural Sciences | Medical Sciences & Pharmacy | Arts & Physical Education | Total |
|------|------------|-----------------|-----------|-------------|------------------|-----------------------------|---------------------------|---------|
| 2004 | 897,589 | 35,423 | 183,367 | 31,817 | 347,284 | 68,082 | 84,157 | 147,459 |
| 2005 | 853,089 | 32,905 | 184,542 | 32,097 | 308,693 | 61,854 | 88,871 | 144,127 |
| 2006 | 817,994 | 31,698 | 186,832 | 31,579 | 279,395 | 59,076 | 91,160 | 138,254 |
| 2007 | 795,519 | 30,813 | 191,285 | 30,961 | 260,067 | 55,918 | 92,121 | 134,354 |
| 2008 | 771,854 | 29,462 | 191,694 | 30,097 | 243,194 | 53,115 | 93,327 | 130,965 |
| 2009 | 760,929 | 26,674 | 190,421 | 28,954 | 238,110 | 52,226 | 95,839 | 128,705 |
| 2010 | 767,087 | 26,286 | 191,865 | 29,795 | 235,900 | 53,285 | 100,716 | 129,240 |
| 2011 | 776,738 | 26,512 | 192,594 | 30,678 | 235,055 | 55,600 | 106,302 | 129,997 |
| 2012 | 769,888 | 24,678 | 188,009 | 30,866 | 232,920 | 56,314 | 110,980 | 126,121 |
| 2013 | 757,721 | 21,827 | 183,811 | 30,583 | 228,615 | 55,314 | 114,708 | 122,863 |
| 2014 | 740,801 | 20,800 | 176,756 | 31,115 | 223,486 | 54,556 | 116,608 | 117,480 |
| 2015 | 720,466 | 19,587 | 166,383 | 31,565 | 218,473 | 52,565 | 120,852 | 111,041 |
| 2016 | 697,214 | 18,641 | 157,512 | 31,793 | 212,615 | 50,732 | 122,290 | 103,631 |
| 2017 | 677,721 | 17,424 | 149,374 | 31,315 | 207,875 | 49,506 | 124,118 | 98,109 |
| 2018 | 659,232 | 15,726 | 140,761 | 30,474 | 203,118 | 48,959 | 125,287 | 94,907 |
| 2019 | 643,560 | 14,534 | 133,481 | 28,777 | 198,306 | 48,357 | 127,506 | 92,599 |

Source: Ministry of Education, Korean Educational Development Institute, Statistics Yearbook of Education (Annual)

4) Junior College Entrants Volume

(Unit: School, Number, Person)

| Year | No. of Schools | Departments | | No. of Entrants | | Enrollments | | Entrant | | Applicant | |
|------|----------------|--------------------|--|--------------------|--|-------------|--|--------------------|--|--------------------|--|
| | | Associate's Degree | Bachelor's Degree-C onferring Intensive Course | Associate's Degree | Bachelor's Degree-C onferring Intensive Course | Total | Bachelor's Degree-C onferring Intensive Course | Associate's Degree | Bachelor's Degree-C onferring Intensive Course | Associate's Degree | Bachelor's Degree-C onferring Intensive Course |
| 2004 | 158 | 5,847 | - | 277,223 | - | 897,589 | - | 259,182 | - | 1,273,508 | - |
| 2005 | 158 | 6,118 | - | 266,090 | - | 853,089 | - | 251,283 | - | 1,120,027 | - |
| 2006 | 152 | 6,660 | - | 247,604 | - | 817,994 | - | 254,433 | - | 1,114,372 | - |
| 2007 | 148 | 6,504 | - | 238,069 | - | 795,519 | - | 255,395 | - | 1,240,910 | - |
| 2008 | 147 | 6,360 | 210 | 233,729 | 6,645 | 771,854 | 2,894 | 246,700 | 2,591 | 1,342,162 | 3,928 |
| 2009 | 146 | 6,455 | 320 | 231,707 | 8,816 | 760,929 | 5,445 | 238,804 | 3,721 | 1,285,267 | 4,951 |
| 2010 | 145 | 6,298 | 385 | 223,312 | 9,467 | 767,087 | 7,008 | 244,382 | 4,762 | 1,524,609 | 6,599 |
| 2011 | 147 | 6,106 | 416 | 221,116 | 9,745 | 776,738 | 7,807 | 244,834 | 4,859 | 1,806,605 | 6,377 |
| 2012 | 142 | 6,284 | 317 | 209,324 | 4,376 | 769,888 | 5,684 | 236,061 | 2,891 | 1,752,932 | 4,090 |
| 2013 | 140 | 5,924 | 565 | 199,969 | 9,623 | 757,721 | 11,752 | 219,767 | 7,940 | 1,583,845 | 11,182 |
| 2014 | 139 | 5,637 | 605 | 192,177 | 6,508 | 740,801 | 13,484 | 212,734 | 9,016 | 1,563,430 | 13,345 |
| 2015 | 138 | 5,649 | 662 | 183,314 | 8,127 | 720,466 | 15,271 | 204,013 | 10,453 | 1,642,122 | 15,328 |
| 2016 | 138 | 5,386 | 718 | 178,050 | 14,093 | 697,214 | 16,980 | 197,338 | 11,470 | 1,569,437 | 16,642 |
| 2017 | 138 | 5,299 | 767 | 172,692 | 17,468 | 677,721 | 18,287 | 187,750 | 12,271 | 1,518,628 | 17,886 |
| 2018 | 137 | 5,105 | 814 | 168,014 | 15,959 | 659,232 | 19,616 | 184,553 | 13,557 | 1,517,158 | 22,816 |
| 2019 | 137 | 5,024 | 857 | 166,442 | 16,386 | 643,560 | 20,912 | 183,610 | 14,287 | 1,624,690 | 20,962 |

Note: 1) Bachelor's degree-conferring intensive courses were launched and operated in junior colleges from 2008

2) The 2019 degree program includes a professional bachelor's degree program and a bachelor's degree program. Students deferring bachelor's degree are excluded from the number of enrolled students.

Source: Ministry of Education, Korean Educational Development Institute, Statistics Yearbook of Education (Annual)

5) Junior College Freshmen Enrollment Rate

(Units: Person, Percent)

| Classification | 2019 Academic Year | | | | | 2020 Academic Year | | | | | |
|------------------|--------------------------------|-----------|----------|------------------|-----------------|--------------------|-----------|----------|------------------|-----------------|-------|
| | Quota | Applicant | Enrolled | Application Rate | Enrollment Rate | Quota | Applicant | Enrolled | Application Rate | Enrollment Rate | |
| Total | 165,786 | 1,536,237 | 161,161 | 9.3 | 97.2 | 162,174 | 1,364,907 | 151,676 | 8.42 | 93.53 | |
| Capital Area | Sub Total | 71,143 | 880,802 | 70,829 | 12.4 | 99.6 | 70,127 | 758,278 | 68,684 | 10.81 | 97.94 |
| | Humanities and Social Sciences | 24,219 | 311,638 | 23,961 | 12.9 | 98.9 | 23,299 | 265,787 | 22,670 | 11.41 | 97.30 |
| | Natural Sciences | 11,494 | 154,858 | 11,494 | 13.5 | 100.0 | 11,685 | 147,171 | 11,641 | 12.59 | 99.62 |
| | Engineering | 23,501 | 242,618 | 23,445 | 10.3 | 99.8 | 23,129 | 194,490 | 22,377 | 8.41 | 96.75 |
| | Arts & Physical Education | 11,929 | 171,688 | 11,929 | 14.4 | 100.0 | 12,014 | 150,830 | 11,996 | 12.55 | 99.85 |
| Non-capital Area | Sub Total | 94,643 | 655,435 | 90,332 | 6.9 | 95.4 | 92,047 | 606,629 | 82,992 | 6.59 | 90.16 |
| | Humanities and Social Sciences | 25,515 | 140,138 | 23,852 | 5.5 | 93.5 | 23,783 | 122,873 | 20,863 | 5.17 | 87.72 |
| | Natural Sciences | 34,358 | 317,440 | 33,206 | 9.2 | 96.7 | 34,719 | 308,458 | 32,342 | 8.88 | 93.15 |
| | Engineering | 25,424 | 149,383 | 24,415 | 5.9 | 96.0 | 24,102 | 129,690 | 21,217 | 5.38 | 88.03 |
| | Arts & Physical Education | 9,346 | 48,474 | 8,859 | 5.2 | 94.8 | 9,443 | 45,608 | 8,570 | 4.83 | 90.76 |

Note: Korean Council for University College Education Survey Data
 Source: Korean Council for University College Education, Admission Results for Junior Colleges in 2019 press release and 2020 internal data

6) Junior College Student Recruitment

(Units: Person, Percent)

| Year | No. of Entrants | | No. of Students on Temporary Leave | | | | Graduates | |
|------|-----------------|----------------|------------------------------------|------|-----------------------------|------|------------|----------------|
| | University | Junior College | University | | Junior College | | University | Junior College |
| | | | Students on Temporary Leave | Rate | Students on Temporary Leave | Rate | | |
| 2004 | 329,509 | 259,182 | 569,064 | 31.0 | 345,784 | 38.5 | 267,058 | 226,886 |
| 2005 | 326,284 | 251,283 | 595,707 | 32.0 | 322,940 | 37.9 | 268,833 | 228,763 |
| 2006 | 335,581 | 254,433 | 597,756 | 31.7 | 290,380 | 35.5 | 270,546 | 222,973 |
| 2007 | 342,250 | 255,395 | 601,475 | 31.3 | 275,821 | 34.7 | 277,858 | 215,040 |
| 2008 | 342,916 | 249,291 | 613,357 | 31.6 | 268,493 | 34.8 | 282,670 | 207,741 |
| 2009 | 347,750 | 242,525 | 625,329 | 31.5 | 272,016 | 35.7 | 279,059 | 199,421 |
| 2010 | 358,511 | 249,144 | 636,974 | 31.4 | 273,069 | 35.6 | 279,603 | 190,033 |
| 2011 | 361,686 | 249,693 | 628,393 | 30.4 | 273,245 | 35.2 | 293,967 | 188,216 |
| 2012 | 372,941 | 238,952 | 619,727 | 29.5 | 277,207 | 36.0 | 298,727 | 188,468 |
| 2013 | 365,515 | 227,707 | 614,851 | 29.0 | 273,422 | 36.1 | 294,952 | 184,817 |
| 2014 | 363,655 | 221,750 | 600,739 | 28.2 | 261,178 | 35.3 | 301,606 | 183,557 |
| 2015 | 355,772 | 214,466 | 592,443 | 28.0 | 251,876 | 35.0 | 322,413 | 182,424 |
| 2016 | 348,393 | 208,808 | 591,088 | 28.4 | 241,322 | 34.6 | 334,643 | 178,482 |
| 2017 | 343,076 | 200,021 | 583,494 | 28.5 | 232,834 | 34.4 | 335,367 | 171,210 |
| 2018 | 342,841 | 198,110 | 518,842 | 25.6 | 218,608 | 33.2 | 323,735 | 168,780 |
| 2019 | 343,248 | 197,897 | 536,954 | 27.0 | 201,182 | 45.5 | 323,883 | 166,327 |

Note: 1) Number of entrants include all students entered within and in addition to the quota

2) Ratio of students on temporary leave = (students on temporary leave ÷ enrolled students) × 100

Source: Ministry of Education, Korean Educational Development Institute, Statistics Yearbook of Education (Annual)

7) Junior College Program Operational Environment

(Unit: School, Person, Percent)

| Year | Legal Basis | School | Schools (A) | Departments (B) | Students (C) | Teachers (D) | Entrants (E) | Applicants (F) | Departments per School (B/A) | Students per Department (C/B) | Students per Teacher (C/D) | Entrants per School (E/A) | Competition Rate (F/E) | |
|--|--|------------------------|-------------------|-----------------|-----------------|-----------------|-----------------|-------------------|------------------------------|-------------------------------|----------------------------|---------------------------|------------------------|-----|
| 2017 | Higher Education Act | Junior College | 138 (87.3) | 6,066 (94.4) | 677,721 (93.2) | 12,804 (91.5) | 200,021 (91.9) | 1,536,514 (94.9) | 44.0 | 111.7 | 52.9 | 1,449.4 | 7.7 | |
| | | Technical College | — | 1 (0.0) | 1 (0.0) | — | — | — | — | 1.0 | — | — | — | — |
| | | Cyber University | 2 (1.3) | 38 (0.6) | 5,615 (0.8) | 38 (0.3) | 2,556 (1.2) | 4,548 (0.3) | 19.0 | 147.8 | 147.8 | 1,278.0 | 1.8 | |
| | Lifelong Education Act | Distance University | 1 (0.6) | 14 (0.2) | 1,848 (0.3) | 14 (0.1) | 470 (0.2) | 659 (0.0) | 14.0 | 132.0 | 132.0 | 470.0 | 1.4 | |
| | | College in the Company | 5 (3.2) | 7 (0.1) | 318 (0.0) | 3 (0.0) | 113 (0.1) | 113 (0.0) | 1.4 | 45.4 | 106.0 | 22.6 | 1.0 | |
| | | Specialized College | 3 (1.9) | 48 (0.7) | 12,610 (1.7) | 257 (1.8) | 5,074 (2.3) | 39,468 (2.4) | 16.0 | 262.7 | 49.1 | 1,691.3 | 7.8 | |
| | Act on the Development of Vocational Skills of Workers | Polytechnic College | 9 (5.7) | 249 (3.9) | 28,791 (4.0) | 883 (6.3) | 9,502 (4.4) | 38,346 (2.4) | 27.7 | 115.6 | 32.6 | 1,055.8 | 4.0 | |
| | Total | | | 158 (100.0) | 6,423 (100.0) | 726,904 (100.0) | 13,999 (100.0) | 217,736 (100.0) | 1,619,648 (100.0) | 40.7 | 113.2 | 51.9 | 1,378.1 | 7.4 |
| | 2018 | Higher Education Act | Junior College | 137 (87.3) | 5,919 (94.4) | 659,232 (93.1) | 12,584 (91.2) | 198,110 (91.9) | 1,539,974 (94.9) | 43.2 | 111.4 | 52.4 | 1,446.1 | 7.8 |
| | | | Technical College | — | 1 (0.0) | 10 (0.0) | — | 10 (0.0) | 10 (0.0) | — | 10.0 | — | — | 1.0 |
| Cyber University | | | 2 (1.3) | 33 (0.5) | 5,551 (0.8) | 37 (0.3) | 2,498 (1.2) | 4,308 (0.3) | 16.5 | 168.2 | 150.0 | 1,249.0 | 1.7 | |
| Lifelong Education Act | | Distance University | 1 (0.6) | 15 (0.2) | 1,822 (0.3) | 14 (0.1) | 473 (0.2) | 676 (0.0) | 15.0 | 121.5 | 130.1 | 473.0 | 1.4 | |
| | | College in the Company | 5 (3.2) | 6 (0.1) | 246 (0.0) | 4 (0.0) | 110 (0.1) | 110 (0.0) | 1.2 | 41.0 | 61.5 | 22.0 | 1.0 | |
| | | Specialized College | 3 (1.9) | 55 (0.9) | 13,310 (1.9) | 262 (1.9) | 5,226 (2.4) | 38,615 (2.4) | 18.3 | 242.0 | 50.8 | 1,742.0 | 7.4 | |
| Act on the Development of Vocational Skills of Workers | | Polytechnic College | 9 (5.7) | 240 (3.8) | 28,025 (4.0) | 897 (6.5) | 9,127 (4.2) | 38,732 (2.4) | 26.7 | 116.8 | 31.2 | 1,014.1 | 4.2 | |
| Total | | | 157 (100.0) | 6,269 (100.0) | 708,196 (100.0) | 13,798 (100.0) | 215,554 (100.0) | 1,622,425 (100.0) | 39.9 | 113.0 | 51.3 | 1,373.0 | 7.5 | |

(Table continued)

| Year | Legal Basis | School | Schools (A) | Departments (B) | Students (C) | Teachers (D) | Entrants (E) | Applicants (F) | Departments per School (B/A) | Students per Department (C/B) | Students per Teacher (C/D) | Entrants per School (E/A) | Competition Rate (F/E) | |
|------|--|------------------------|----------------|------------------|--------------------|-------------------|--------------------|----------------------|------------------------------|-------------------------------|----------------------------|---------------------------|------------------------|---|
| 2019 | Higher Education Act | Junior College | 137 (87,3) | 5,881 (94,4) | 643,560 (93,0) | 12,327 (91,0) | 197,897 (92,0) | 1,645,652 (95,3) | 42,9 | 109,4 | 52,2 | 1,444,5 | 8,3 | |
| | | Technical College | — (0,0) | 1 (0,0) | 10 (0,0) | — (0,0) | — (0,0) | — (0,0) | — | 10,0 | — | — | — | — |
| | | Cyber University | 2 (1,3) | 32 (0,5) | 5,692 (0,8) | 37 (0,3) | 2,543 (1,2) | 4,463 (0,3) | 16,0 | 177,9 | 153,8 | 1,271,5 | 1,8 | |
| | Lifelong Education Act | Distance University | 1 (0,6) | 15 (0,2) | 1,473 (0,2) | 12 (0,1) | 202 (0,1) | 329 (0,0) | 15,0 | 98,2 | 122,8 | 202,0 | 1,6 | |
| | | College in the Company | 5 (3,2) | 5 (0,1) | 204 (0,0) | 4 (0,0) | 87 (0,0) | 87 (0,0) | 1,0 | 40,8 | 51,0 | 17,4 | 1,0 | |
| | | Specialized College | 3 (1,9) | 61 (1,0) | 14,245 (2,1) | 274 (2,0) | 5,908 (2,7) | 44,837 (2,6) | 20,3 | 233,5 | 52,0 | 1,969,3 | 7,6 | |
| | Act on the Development of Vocational Skills of Workers | Polytechnic College | 9 (5,7) | 236 (3,8) | 26,828 (3,9) | 898 (6,6) | 8,571 (4,0) | 32,111 (1,9) | 26,2 | 113,7 | 29,9 | 952,3 | 3,7 | |
| | Total | | 157 (100,0) | 6,231 (100,0) | 692,012 (100,0) | 13,552 (100,0) | 215,208 (100,0) | 1,727,479 (100,0) | 39,7 | 111,1 | 51,1 | 1,370,8 | 8,0 | |

Note: 1) 'Junior college course' is synonymous with an 'associate degree course'
 2) Junior college includes associate's degree programs and bachelor's degree-conferring intensive programs
 3) One of the technical college operates both associates degree course and university course
 4) Students include both enrolled students and students on leave
 Source: Ministry of Education, Korean Educational Development Institute. Statistics Yearbook of Education (Annual)

8) Junior College Program Student Age Distribution by Schools

(Units: Person, Percent)

| Year | Legal Basis | School | Age 17 & Under | Age 18 | Age 19 | Age 20 | Age 21 | Age 22 | Age 23 | Age 24 | Age 25 | Age 26 & Over | Total | |
|--|--|------------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-----------------|-----------------|-----------------|-----------------|-----------------|--------------------|--------------------|
| 2017 | Higher Education Act | Junior College | 1,068 (0.2) | 121,826 (18.0) | 151,444 (22.3) | 120,108 (17.7) | 95,822 (14.1) | 64,876 (9.6) | 35,757 (5.3) | 19,675 (2.9) | 11,753 (1.7) | 55,392 (8.2) | 677,721 (100.0) | |
| | | Technical College | 0 (0.0) | 0 (0.0) | 0 (0.0) | 0 (0.0) | 0 (0.0) | 0 (0.0) | 0 (0.0) | 0 (0.0) | 0 (0.0) | 0 (0.0) | 1 (100.0) | 1 (100.0) |
| | | Cyber University | 3 (0.1) | 51 (0.9) | 89 (1.6) | 99 (1.8) | 117 (2.1) | 147 (2.6) | 186 (3.3) | 160 (2.8) | 156 (2.8) | 4,607 (82.0) | 5,615 (100.0) | |
| | Lifelong Education Act | Distance University | 1 (0.1) | 28 (1.5) | 33 (1.8) | 23 (1.2) | 20 (1.1) | 35 (1.9) | 31 (1.7) | 33 (1.8) | 32 (1.7) | 1,612 (87.2) | 1,848 (100.0) | |
| | | College in the Company | — (0.0) | — (0.0) | — (0.0) | 28 (8.8) | 31 (9.7) | 15 (4.7) | 5 (1.6) | 7 (2.2) | 5 (1.6) | 227 (71.4) | 318 (100.0) | |
| | | Specialized College | 35 (0.3) | 3,066 (24.3) | 3,859 (30.6) | 2,198 (17.4) | 1,465 (11.6) | 902 (7.2) | 418 (3.3) | 268 (2.1) | 112 (0.9) | 287 (2.3) | 12,610 (100.0) | |
| | Act on the Development of Vocational Skills of Workers | Polytechnic College | 50 (0.2) | 4,219 (14.7) | 5,133 (17.8) | 4,166 (14.5) | 4,185 (14.5) | 3,744 (13.0) | 2,304 (8.0) | 1,431 (5.0) | 970 (3.4) | 2,589 (9.0) | 28,791 (100.0) | |
| | 2018 | Higher Education Act | Junior College | 1,032 (0.2) | 118,103 (17.9) | 139,581 (21.2) | 117,324 (17.8) | 92,146 (14) | 66,005 (10) | 36,844 (5.6) | 19,576 (3) | 11,763 (1.8) | 56,858 (8.6) | 659,232 (100.0) |
| | | | Technical College | 0 (0.0) | 0 (0.0) | 0 (0.0) | 0 (0.0) | 0 (0.0) | 0 (0.0) | 0 (0.0) | 0 (0.0) | 0 (0.0) | 10 (100.0) | 10 (100.0) |
| Cyber University | | | 6 (0.1) | 59 (1.1) | 83 (1.5) | 85 (1.5) | 101 (1.8) | 153 (2.8) | 181 (3.3) | 180 (3.2) | 136 (2.5) | 4,567 (82.3) | 5,551 (100.0) | |
| Lifelong Education Act | | Distance University | 3 (0.2) | 18 (1.0) | 35 (1.9) | 32 (1.8) | 24 (1.3) | 29 (1.6) | 38 (2.1) | 34 (1.9) | 32 (1.8) | 1,577 (86.6) | 1,822 (100.0) | |
| | | College in the Company | 1 (0.4) | 29 (11.8) | 16 (6.5) | 15 (6.1) | 5 (2) | 4 (1.6) | 33 (13.4) | 51 (20.7) | 49 (19.9) | 43 (17.5) | 246 (100.0) | |
| | | Specialized College | 38 (0.3) | 3,287 (24.7) | 3,895 (29.3) | 2,429 (18.2) | 1,531 (11.5) | 993 (7.5) | 515 (3.9) | 232 (1.7) | 146 (1.1) | 244 (1.8) | 13,310 (100.0) | |
| Act on the Development of Vocational Skills of Workers | | Polytechnic College | 65 (0.2) | 4,236 (15.1) | 4,757 (17) | 4,340 (15.5) | 3,991 (14.2) | 3,493 (12.5) | 2,348 (8.4) | 1,388 (5) | 939 (3.4) | 2,468 (8.8) | 28,025 (100.0) | |

(Table continued)

| Year | Legal Basis | School | Age 17 & Under | Age 18 | Age 19 | Age 20 | Age 21 | Age 22 | Age 23 | Age 24 | Age 25 | Age 26 & Over | Total |
|------|--|------------------------|----------------|-------------------|-------------------|-------------------|------------------|-----------------|-----------------|-----------------|-----------------|-----------------|--------------------|
| 2018 | Higher Education Act | Junior College | 848 (0,1) | 118,118 (18,4) | 137,479 (21,4) | 108,701 (16,9) | 90,011 (14,0) | 61,106 (9,5) | 37,703 (5,9) | 20,103 (3,1) | 11,483 (1,8) | 58,008 (9,0) | 643,560 (100,0) |
| | | Technical College | — | — | — | — | — | — | — | — | — | 10 (100,0) | 10 (100,0) |
| | | Cyber University | 6 (0,1) | 43 (0,8) | 91 (1,6) | 91 (1,6) | 99 (1,7) | 119 (2,1) | 161 (2,8) | 174 (3,1) | 148 (2,6) | 4,760 (83,6) | 5,692 (100,0) |
| | Lifelong Education Act | Distance University | 2 (0,1) | 7 (0,5) | 14 (1,0) | 16 (1,1) | 18 (1,2) | 26 (1,8) | 29 (2,0) | 26 (1,8) | 28 (1,9) | 1,307 (88,7) | 1,473 (100,0) |
| | | College in the Company | — | — | — | 1 (0,5) | 3 (1,5) | 16 (7,8) | 13 (6,4) | 14 (6,9) | 4 (2,0) | 153 (75,0) | 204 (100,0) |
| | | Specialized College | 43 (0,3) | 3,725 (26,1) | 4,309 (30,2) | 2,448 (17,2) | 1,572 (11,0) | 952 (6,7) | 511 (3,6) | 273 (1,9) | 139 (1,0) | 273 (1,9) | 14,245 (100,0) |
| | Act on the Development of Vocational Skills of Workers | Polyschnic College | 44 (0,2) | 3,745 (14,0) | 4,689 (17,5) | 3,882 (14,5) | 4,166 (15,5) | 3,268 (12,2) | 2,288 (8,5) | 1,440 (5,4) | 915 (3,4) | 2,391 (8,9) | 26,828 (100,0) |

Note: 1) 'Junior college course' is synonymous with an 'associate degree course'

2) Junior college includes associate's degree programs and bachelor's degree-conferring intensive programs

3) College in the companies lists from age 20 or younger in the Statistics Yearbook of Education

Source: Ministry of Education, Korean Educational Development Institute, Statistics Yearbook of Education (Annual)

9) Junior College Freshmen Age Distribution

(Unit: Person)

| Year | Nb. of Freshmen | Age 17 & Under | Age 18 | Age 19 | Age 20 | Age 21 | Age 22 | Age 23 | Age 24 | Age 25 | Age 26 & Over |
|------|-----------------|----------------|---------|--------|--------|--------|--------|--------|--------|--------|---------------|
| 2006 | 254,433 | 2,037 | 136,287 | 25,857 | 9,393 | 5,899 | 9,657 | 10,126 | 7,323 | 4,647 | 43,207 |
| 2007 | 255,395 | 1,166 | 146,435 | 23,936 | 8,944 | 6,291 | 7,253 | 7,741 | 6,611 | 4,762 | 42,256 |
| 2008 | 249,291 | 2,346 | 148,212 | 22,267 | 7,928 | 5,327 | 6,895 | 5,746 | 4,942 | 4,245 | 41,383 |
| 2009 | 242,525 | 2,653 | 145,739 | 22,475 | 8,618 | 5,547 | 6,341 | 5,864 | 3,965 | 3,374 | 37,949 |
| 2010 | 249,144 | 3,268 | 158,201 | 21,623 | 7,077 | 5,236 | 6,007 | 4,896 | 3,792 | 2,711 | 36,333 |
| 2011 | 249,693 | 3,110 | 164,502 | 23,125 | 7,728 | 5,132 | 5,607 | 4,340 | 3,220 | 2,540 | 30,389 |
| 2012 | 238,952 | 2,846 | 157,230 | 26,578 | 8,002 | 5,200 | 5,394 | 4,181 | 2,953 | 2,172 | 24,396 |
| 2013 | 227,707 | 2,209 | 151,115 | 24,371 | 8,268 | 6,313 | 5,010 | 4,047 | 2,905 | 1,947 | 21,522 |
| 2014 | 221,750 | 1,649 | 148,121 | 24,468 | 7,578 | 6,727 | 5,515 | 3,898 | 2,953 | 1,955 | 18,886 |
| 2015 | 214,466 | 1,455 | 138,898 | 25,786 | 7,880 | 6,953 | 6,085 | 4,474 | 2,754 | 2,036 | 18,145 |
| 2016 | 208,808 | 1,228 | 133,419 | 25,624 | 8,335 | 7,003 | 5,696 | 4,586 | 3,131 | 1,997 | 17,789 |
| 2017 | 200,021 | 1,036 | 122,264 | 26,887 | 8,444 | 7,402 | 5,923 | 4,659 | 3,154 | 2,092 | 18,160 |
| 2018 | 198,110 | 994 | 118,701 | 25,890 | 8,921 | 7,839 | 6,189 | 5,097 | 3,454 | 2,280 | 18,745 |
| 2019 | 197,897 | 810 | 118,677 | 27,688 | 8,376 | 8,253 | 5,870 | 4,956 | 3,379 | 2,163 | 17,725 |

Note: Data collection starts from 2006

Source: Ministry of Education, Korean Educational Development Institute, Statistics Yearbook of Education (Annual)

10) Junior College Enrolled Student Age Distribution

(Unit: Person)

| Year | Enrolled Students | Age 17 & Under | Age 18 | Age 19 | Age 20 | Age 21 | Age 22 | Age 23 | Age 24 | Age 25 | Age 26 & Over |
|------|-------------------|----------------|---------|---------|---------|---------|---------|--------|--------|--------|---------------|
| 1990 | 323,825 | - | 26,463 | 77,845 | 90,381 | 55,315 | 29,339 | 19,095 | 12,572 | 6,434 | 6,381 |
| 2000 | 913,273 | - | 159,793 | 210,210 | 163,655 | 109,335 | 87,182 | 59,321 | 34,780 | 21,870 | 67,127 |
| 2001 | 952,649 | - | 173,419 | 215,161 | 165,247 | 126,680 | 92,156 | 58,552 | 32,562 | 18,554 | 70,318 |
| 2002 | 963,129 | - | 163,293 | 211,312 | 168,569 | 128,124 | 105,923 | 61,668 | 33,511 | 18,128 | 72,601 |
| 2003 | 925,963 | - | 130,072 | 192,763 | 163,421 | 130,821 | 108,484 | 69,555 | 33,871 | 18,301 | 78,675 |
| 2004 | 897,589 | - | 136,198 | 160,355 | 151,152 | 128,129 | 111,305 | 68,511 | 36,451 | 18,420 | 87,068 |
| 2005 | 853,089 | - | 132,687 | 156,801 | 120,559 | 112,851 | 108,565 | 71,115 | 37,069 | 20,085 | 93,357 |
| 2006 | 817,994 | 2,092 | 139,094 | 149,777 | 115,711 | 88,572 | 95,366 | 67,030 | 38,614 | 20,976 | 100,762 |
| 2007 | 795,519 | 1,704 | 147,076 | 153,311 | 111,972 | 86,428 | 73,499 | 58,593 | 36,673 | 22,296 | 103,967 |
| 2008 | 771,854 | 2,501 | 149,662 | 158,794 | 112,318 | 81,279 | 69,194 | 43,844 | 30,347 | 20,722 | 103,193 |
| 2009 | 760,929 | 2,402 | 148,914 | 161,486 | 114,304 | 83,383 | 64,931 | 42,573 | 23,970 | 17,559 | 101,407 |
| 2010 | 767,087 | 3,237 | 162,022 | 159,304 | 117,279 | 85,452 | 65,131 | 39,966 | 24,024 | 14,174 | 96,498 |
| 2011 | 776,738 | 4,923 | 164,552 | 175,772 | 117,054 | 87,835 | 64,371 | 38,102 | 21,801 | 13,987 | 88,341 |
| 2012 | 769,888 | 2,940 | 159,318 | 182,688 | 130,090 | 86,480 | 63,586 | 36,553 | 20,341 | 12,517 | 75,375 |
| 2013 | 757,721 | 2,265 | 150,749 | 174,827 | 135,315 | 98,039 | 61,117 | 36,074 | 20,313 | 12,188 | 66,834 |
| 2014 | 740,801 | 2,960 | 148,298 | 167,276 | 129,509 | 101,590 | 65,120 | 33,722 | 19,798 | 11,957 | 60,571 |
| 2015 | 720,466 | 3,835 | 138,466 | 165,401 | 124,676 | 98,200 | 66,093 | 36,247 | 18,508 | 11,463 | 57,577 |
| 2016 | 697,214 | 1,278 | 132,789 | 156,467 | 124,819 | 94,706 | 64,497 | 36,593 | 20,034 | 10,937 | 55,094 |
| 2017 | 677,721 | 1,068 | 121,826 | 151,444 | 120,108 | 95,822 | 64,876 | 35,757 | 19,675 | 11,753 | 55,392 |
| 2018 | 659,232 | 1,032 | 118,103 | 139,581 | 117,324 | 92,146 | 66,005 | 36,844 | 19,576 | 11,763 | 56,858 |
| 2019 | 643,560 | 848 | 118,118 | 137,479 | 108,701 | 90,011 | 61,106 | 37,703 | 20,103 | 11,483 | 58,008 |

Note: from 1990 to 2005, age 18 indicates 'under age 18'

Source: Ministry of Education, Korean Educational Development Institute, Statistics Yearbook of Education (Annual)

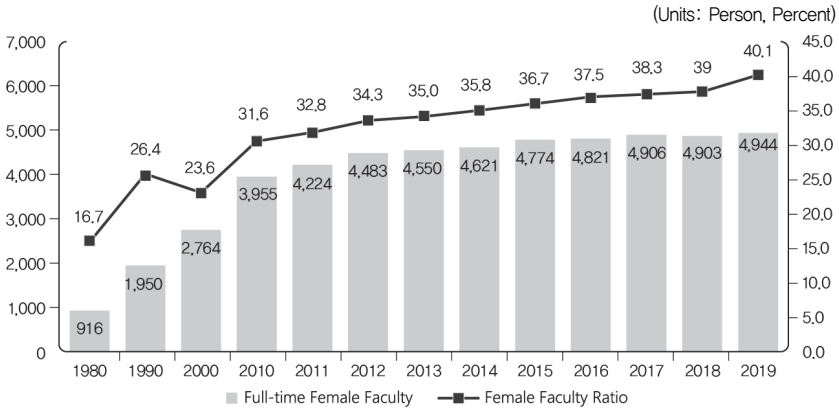
11) Junior College Faculty Volume by Type of Establishments

(Unit: Person)

| Year | Total | | National | | Public | | Private | |
|------|--------|--------|----------|--------|--------|--------|---------|--------|
| | Total | Female | Total | Female | Total | Female | Total | Female |
| 2000 | 11,707 | 2,764 | 378 | 96 | 362 | 43 | 10,967 | 2,625 |
| 2001 | 11,897 | 2,866 | 314 | 73 | 364 | 42 | 11,219 | 2,751 |
| 2002 | 12,156 | 2,979 | 353 | 82 | 364 | 47 | 11,439 | 2,850 |
| 2003 | 11,974 | 2,965 | 373 | 87 | 364 | 46 | 11,237 | 2,832 |
| 2004 | 11,872 | 3,019 | 374 | 91 | 357 | 47 | 11,141 | 2,881 |
| 2005 | 12,027 | 3,214 | 292 | 90 | 359 | 48 | 11,376 | 3,076 |
| 2006 | 11,857 | 3,314 | 232 | 60 | 366 | 51 | 11,259 | 3,203 |
| 2007 | 11,685 | 3,319 | 144 | 22 | 371 | 55 | 11,170 | 3,242 |
| 2008 | 12,100 | 3,569 | 77 | 21 | 380 | 59 | 11,643 | 3,489 |
| 2009 | 12,451 | 3,776 | 76 | 21 | 382 | 58 | 11,993 | 3,697 |
| 2010 | 12,530 | 3,955 | 76 | 21 | 229 | 33 | 12,225 | 3,901 |
| 2011 | 12,891 | 4,224 | 105 | 22 | 228 | 32 | 12,558 | 4,170 |
| 2012 | 13,078 | 4,483 | 83 | 18 | 225 | 32 | 12,770 | 4,433 |
| 2013 | 13,015 | 4,550 | 87 | 18 | 229 | 33 | 12,699 | 4,499 |
| 2014 | 12,920 | 4,621 | 87 | 18 | 228 | 33 | 12,605 | 4,570 |
| 2015 | 12,991 | 4,774 | 90 | 20 | 232 | 34 | 12,669 | 4,720 |
| 2016 | 12,854 | 4,821 | 90 | 21 | 229 | 32 | 12,535 | 4,768 |
| 2017 | 12,804 | 4,906 | 92 | 22 | 229 | 33 | 12,483 | 4,851 |
| 2018 | 12,584 | 4,903 | 100 | 22 | 224 | 32 | 12,260 | 4,849 |
| 2019 | 12,327 | 4,944 | 113 | 24 | 225 | 36 | 11,989 | 4,884 |

Source: Ministry of Education, Korean Educational Development Institute, Statistics Yearbook of Education (Annual)

12) Junior College Female Faculty



- Note: 1) Female full-time faculty ratio (%) = (number of female full-time faculty ÷ total number of full-time faculty members) × 100
- 2) Since full-time lecturer system was discontinued in 2013, the full-time faculty has been classified into professors, associate professors, and assistant professors, and the number of full-time faculty includes presidents and deans. However, for national and public universities, endowed professors who meet the requirements of full-time faculty members are included.
- 3) In 1980 and 1990, full-time and non-full-time classification was not possible, therefore, used total female full-time faculty numbers

Source: Ministry of Education, Korea Educational Development Institute, Press Release on Major Contents of Basic Education Statistics (August 30, 2019)

13) Students per Full-Time Faculty

(Unit: Person)

| Year | Higher Education Institution | | | Junior College | | | University | | |
|------|------------------------------|-----------|--------------------------------|-------------------|----------|--------------------------------|-------------------|-----------|--------------------------------|
| | Full-time Faculty | Students | Students per Full-time Faculty | Full-time Faculty | Students | Students per Full-time Faculty | Full-time Faculty | Students | Students per Full-time Faculty |
| 2010 | 77,697 | 2,537,670 | 32.7 | 12,530 | 494,018 | 39.4 | 61,020 | 1,649,692 | 27.0 |
| 2011 | 82,190 | 2,623,311 | 31.9 | 12,891 | 503,493 | 39.1 | 63,905 | 1,704,873 | 26.7 |
| 2012 | 84,900 | 2,625,187 | 30.9 | 13,078 | 492,681 | 37.7 | 68,034 | 1,749,491 | 25.7 |
| 2013 | 86,656 | 2,625,220 | 30.3 | 13,015 | 484,299 | 37.2 | 69,802 | 1,770,332 | 25.4 |
| 2014 | 88,163 | 2,624,053 | 29.8 | 12,920 | 479,623 | 37.1 | 71,401 | 1,795,755 | 25.2 |
| 2015 | 90,215 | 2,591,552 | 28.7 | 12,991 | 468,590 | 36.1 | 72,642 | 1,789,353 | 24.6 |
| 2016 | 90,371 | 2,534,777 | 28.0 | 12,854 | 455,892 | 35.5 | 72,806 | 1,760,972 | 24.2 |
| 2017 | 90,902 | 2,477,847 | 27.3 | 12,804 | 444,887 | 34.7 | 73,326 | 1,728,475 | 23.6 |
| 2018 | 90,288 | 2,458,209 | 27.2 | 12,584 | 440,624 | 35.0 | 73,081 | 1,721,652 | 23.6 |
| 2019 | 89,345 | 2,446,159 | 27.4 | 12,327 | 442,378 | 35.9 | 72,208 | 1,708,288 | 23.7 |

Note: 1) Students per full-time faculty = number of students enrolled ÷ number of full-time faculty members

2) Since full-time lecturer system was discontinued in 2013, the full-time faculty has been classified into professors, associate professors, and assistant professors, and the number of full-time faculty includes presidents and deans. However, for national and public universities, endowed professors who meet the requirements of full-time faculty members are included.

3) The number for full-time faculty and enrolled students at graduate school affiliated with the university is included in the undergraduate school

Source: Ministry of Education • Korea Educational Development Institute. Press Release on Major Contents of Basic Education Statistics (August 30, 2019)

14) Junior College Course Volume by Student Size

(Unit: School, Number, Percent)

| Classification | | Total | Establishment | | Location | |
|----------------------|----------------------|---------|-------------------|---------|--------------|------------------|
| | | | National & Public | Private | Capital Area | Non-capital Area |
| First Semester, 2018 | No. of schools | 164 | 9 | 155 | 49 | 115 |
| | Total no. of courses | 135,011 | 2,976 | 132,035 | 56,328 | 78,683 |
| | | (100.0) | (100.0) | (100.0) | (100.0) | (100.0) |
| | 20 students or less | 34,957 | 1,058 | 33,899 | 14,528 | 20,429 |
| | | (25.9) | (35.6) | (25.7) | (25.8) | (26.0) |
| | 21-50 students | 96,756 | 1,887 | 94,869 | 41,026 | 55,730 |
| (71.7) | | (63.4) | (71.9) | (72.8) | (70.8) | |
| 51 students or more | 3,298 | 31 | 3,267 | 774 | 2,524 | |
| | (2.4) | (1.0) | (2.5) | (1.4) | (3.2) | |
| First Semester, 2019 | No. of schools | 165 | 9 | 156 | 49 | 116 |
| | Total no. of courses | 129,292 | 3,015 | 126,277 | 53,532 | 75,760 |
| | | (100.0) | (100.0) | (100.0) | (100.0) | (100.0) |
| | 20 students or less | 33,109 | 1,070 | 32,039 | 13,386 | 19,723 |
| | | (25.6) | (35.5) | (25.4) | (25.0) | (26.0) |
| | 21-50 students | 92,673 | 1,920 | 90,753 | 39,338 | 53,335 |
| (71.7) | | (63.7) | (71.9) | (73.5) | (70.4) | |
| 51 students or more | 3,510 | 25 | 3,485 | 808 | 2,702 | |
| | (2.7) | (0.8) | (2.8) | (1.5) | (3.6) | |

Note: 1) Includes polytechnic college, cyber university (junior college), junior college (two-, three-, and four-year colleges)

2) Schools in operation, course type 'offline' for given years, first semester

Source: Higher Education in Korea (www.academyinfo.go.kr). (Search Date: June 22, 2020)

15) Junior College Faculty Teaching Ratio

(Unit: Point, Percent)

| Classification | | Total | Establishment | | Location | | |
|----------------------|------------------------------|--------------------------------|-------------------|---------|--------------|------------------|--------|
| | | | National & Public | Private | Capital Area | Non-capital Area | |
| First Semester, 2018 | No. of schools | 166 | 9 | 157 | 49 | 117 | |
| | Credits by Full-time Faculty | 151,488 | 2,925 | 148,563 | 64,207 | 87,281 | |
| | | 46.7 | 41.0 | 46.8 | 46.2 | 47.0 | |
| | Non-Full-time Faculty | Credits by Adjunct Faculty | 64,371 | 709 | 63,662 | 29,105 | 35,266 |
| | | | 19.8 | 9.9 | 20.1 | 21.0 | 19.0 |
| | | Credits by Visiting Faculty | 11,345 | 763 | 10,582 | 3,291 | 8,054 |
| | | | 3.5 | 10.7 | 3.3 | 2.4 | 4.3 |
| | | Credits by Part-time Lecturers | 95,675 | 2,723 | 92,952 | 41,643 | 54,031 |
| | | | 29.5 | 38.1 | 29.3 | 30.0 | 29.1 |
| | Credits by Other Faculty | 1,590 | 24 | 1,566 | 540 | 1,050 | |
| | 0.5 | 0.3 | 0.5 | 0.4 | 0.6 | | |
| First Semester, 2019 | No. of schools | 166 | 9 | 157 | 49 | 117 | |
| | Credits by Full-time Faculty | 156,320 | 3,153 | 153,167 | 66,416 | 89,904 | |
| | | 49.9 | 43.4 | 50.0 | 50.0 | 49.8 | |
| | Non-Full-time Faculty | Credits by Adjunct Faculty | 74,269 | 854 | 73,415 | 34,382 | 39,887 |
| | | | 23.7 | 11.8 | 24.0 | 25.9 | 22.1 |
| | | Credits by Visiting Faculty | 12,685 | 696 | 11,989 | 3,937 | 8,748 |
| | | | 4.0 | 9.6 | 3.9 | 3.0 | 4.8 |
| | | Credits by Part-time Lecturers | 68,195 | 2,541 | 65,654 | 27,386 | 40,809 |
| | | | 21.8 | 35.0 | 21.5 | 20.6 | 22.6 |
| | Credits by Other Faculty | 1,826 | 18 | 1,808 | 603 | 1,223 | |
| | 0.6 | 0.2 | 0.6 | 0.5 | 0.7 | | |

Note: 1) Includes polytechnic college, cyber university (junior college), junior college (two-, three-, and four-year colleges)

2) Schools in operation during given years

Source: Higher Education in Korea (www.academyinfo.go.kr). (Search Date: June 22, 2019)

16) Junior College Average Tuition

(Unit: School, Thousand KRW)

| Classification | | Total | Establishment | | Location | |
|----------------|--------------------|---------|-------------------|---------|--------------|------------------|
| | | | National & Public | Private | Capital Area | Non-capital Area |
| 2017 | Schools | 167 | 9 | 158 | 49 | 118 |
| | Average Tuition | 5,074 | 2,144 | 5,241 | 5,761 | 4,789 |
| | Standard Deviation | 1,638.2 | 824.1 | 1,510.3 | 1,469.2 | 1,620.1 |
| 2018 | Schools | 165 | 9 | 156 | 49 | 116 |
| | Average Tuition | 5,041 | 2,138 | 5,209 | 5,771 | 4,733 |
| | Standard Deviation | 1,686.7 | 823.2 | 1,567.1 | 1,462.5 | 1,680.3 |
| 2019 | Schools | 164 | 8 | 156 | 49 | 115 |
| | Average Tuition | 5,076 | 2,157 | 5,226 | 5,794 | 4,771 |
| | Standard Deviation | 1,671.6 | 867.8 | 1,561.9 | 1,458.2 | 1,663.1 |

Note: 1) Average tuition = σ (tuition of each university) \div total number of university

2) Includes Polytechnic College, Cyber University (Junior College), Junior College (two-, three-, and four-year colleges)

3) Schools in operation during given years

Source: Higher Education in Korea (www.academyinfo.go.kr). (Search Date: June 22, 2020)

17) University-Junior College Graduate Change in Volume

(Units: Person, Percent)

| Year | Higher Education Institutions Total | University | Junior College |
|------|-------------------------------------|----------------|----------------|
| 2008 | 646,092 (100.0) | 282,670 (43.8) | 207,741 (32.2) |
| 2009 | 636,628 (100.0) | 279,059 (43.8) | 199,421 (31.3) |
| 2010 | 628,689 (100.0) | 279,603 (44.5) | 190,033 (30.2) |
| 2011 | 653,118 (100.0) | 293,967 (45.0) | 188,216 (28.8) |
| 2012 | 665,057 (100.0) | 298,727 (44.9) | 188,468 (28.3) |
| 2013 | 657,013 (100.0) | 294,952 (44.9) | 184,817 (28.1) |
| 2014 | 667,056 (100.0) | 301,606 (45.2) | 183,557 (27.5) |
| 2015 | 680,698 (100.0) | 322,413 (47.4) | 182,424 (26.8) |
| 2016 | 685,089 (100.0) | 334,643 (48.8) | 178,482 (26.1) |
| 2017 | 678,476 (100.0) | 335,367 (49.4) | 171,210 (25.2) |
| 2018 | 660,751 (100.0) | 323,735 (49.0) | 168,780 (25.5) |
| 2019 | 653,388 (100.0) | 323,883 (49.6) | 166,327 (25.5) |

Note: 1) Higher education institutions include university, university of education, industrial university, junior college, air & corr. university, technical college, miscellaneous school, lifelong learning facilities in the form of distance university, cyber university, college in the company, polytechnic college, and specialized college

2) The number of graduates include August graduates of the previous year and given year's February graduates

3) Higher education institutions based on the Special Act and other ministry's establishments are formally surveyed and included in the number of students from 2011

Source: Ministry of Education, Korean Educational Development Institute. Statistics Yearbook of Education (Annual)

18) Junior College Graduate Age Distribution

(Unit: Person)

| Year | No. of Graduates | Age 19 & Under | Age 20 | Age 21 | Age 22 | Age 23 | Age 24 | Age 25 | Age 26 | Age 27 | Age 28 & Over |
|------|------------------|----------------|--------|--------|--------|--------|--------|--------|--------|--------|---------------|
| 2006 | 222,973 | 859 | 39,456 | 29,868 | 18,857 | 41,450 | 31,014 | 16,342 | 8,584 | 4,401 | 32,142 |
| 2007 | 215,040 | 1,737 | 37,821 | 28,178 | 16,122 | 35,062 | 29,566 | 16,788 | 8,600 | 5,036 | 36,130 |
| 2008 | 207,741 | 2,014 | 40,709 | 28,207 | 15,959 | 27,145 | 26,427 | 15,616 | 8,856 | 4,924 | 37,884 |
| 2009 | 199,421 | 1,311 | 43,618 | 28,183 | 15,789 | 26,097 | 19,792 | 12,973 | 8,345 | 5,282 | 38,031 |
| 2010 | 190,033 | 2,064 | 43,299 | 28,030 | 16,845 | 23,742 | 18,001 | 9,648 | 6,592 | 4,783 | 37,029 |
| 2011 | 188,216 | 1,053 | 43,212 | 29,703 | 19,883 | 25,091 | 16,911 | 9,379 | 5,231 | 3,685 | 34,068 |
| 2012 | 188,468 | 1,861 | 47,775 | 29,231 | 21,628 | 25,257 | 15,597 | 8,131 | 4,796 | 2,988 | 31,204 |
| 2013 | 184,817 | 1,305 | 49,429 | 31,894 | 22,337 | 24,881 | 14,540 | 7,410 | 4,228 | 2,773 | 26,020 |
| 2014 | 183,557 | 1,495 | 46,997 | 32,643 | 28,852 | 23,739 | 14,149 | 7,134 | 3,922 | 2,497 | 22,129 |
| 2015 | 182,424 | 1,615 | 44,058 | 31,850 | 33,220 | 26,193 | 13,302 | 7,151 | 3,687 | 2,177 | 19,171 |
| 2016 | 178,482 | 621 | 43,130 | 30,908 | 32,023 | 27,729 | 14,382 | 6,552 | 3,692 | 2,121 | 17,324 |
| 2017 | 171,210 | 555 | 39,165 | 31,591 | 29,312 | 27,117 | 15,075 | 7,098 | 3,430 | 2,087 | 15,780 |
| 2018 | 168,780 | 410 | 36,950 | 30,681 | 29,702 | 27,292 | 15,334 | 7,286 | 3,828 | 2,047 | 15,250 |
| 2019 | 166,327 | 341 | 33,411 | 29,984 | 30,776 | 27,644 | 15,874 | 7,387 | 3,702 | 2,139 | 15,069 |

Source: Ministry of Education, Korean Educational Development Institute, Statistics Yearbook of Education (Annual)

19) Higher Education Institution Graduate Employment Status

(Unit: School, Person, Percent)

| Classification | Schools | Graduates | Employment Candidates | Status of Graduates | | | | | | | Employment Rate | Ratio Advanced into Higher Schooling |
|--------------------------------------|---------|-----------|-----------------------|---------------------|--------------------------------|-------------------|----------------|------------------|-----------------------|-----------------|-----------------|--------------------------------------|
| | | | | Employed | Advanced into Higher Schooling | Military Enlisted | Unable to Work | Foreign Students | People with Exception | Other & Unknown | | |
| Total (Higher Education Institution) | 553 | 555,808 | 491,392 | 332,839 | 34,472 | 8,217 | 224 | 14,879 | 6,624 | 158,553 | 67.7 | 6.2 |
| Junior College | 140 | 168,796 | 150,570 | 107,068 | 9,808 | 5,477 | 87 | 836 | 2,018 | 43,502 | 71.1 | 5.8 |
| University | 192 | 323,688 | 287,941 | 184,950 | 21,739 | 2,171 | 115 | 7,717 | 4,005 | 102,991 | 64.2 | 6.7 |
| University of Education | 10 | 3,792 | 3,644 | 2,508 | 33 | 102 | 1 | - | 12 | 1,136 | 68.8 | 0.9 |
| Industrial University | 9 | 6,642 | 6,415 | 4,495 | 120 | 45 | 1 | 31 | 30 | 1,920 | 70.1 | 1.8 |
| Miscellaneous School | 2 | 525 | 441 | 246 | 50 | 10 | - | 6 | 18 | 195 | 55.8 | 9.5 |
| Technical College | 27 | 7,363 | 6,918 | 5,601 | 108 | 267 | 9 | 4 | 57 | 1,317 | 81.0 | 1.5 |
| Graduate School | 173 | 45,002 | 35,463 | 27,971 | 2,614 | 145 | 11 | 6,285 | 484 | 7,492 | 78.9 | 5.8 |

Note: 1) 2018 Status after graduating from higher education institution

2) Date of survey: December 31, 2018

3) Number of schools include universities operating main and branch campuses

4) Graduates: August 2017 graduates and February 2018 graduates

5) Employment candidates = graduates - (advanced into higher schooling + military enlisted + unable to work + foreign students + people with exemptions)

6) Employed includes subscribers to national health insurance plans, employed overseas, persons working in the agricultural forestry and fisheries industry, persons engaged in personal creation activities, single-person business owners and freelancers

7) Employment rate (%) = employed ÷ {graduates - (advanced into higher schooling + military enlisted + unable to work + foreign students + people with exception)} × 100

8) Ratio advanced into higher schooling (%) = advanced into higher schooling ÷ graduates × 100

Source: Ministry of Education, Korea Educational Development Institute, Brief Statistics on Employment (2019)

3. Lifelong Vocational Education

1) Lifelong Education Summary

(Unit: Number, Person)

| Year | Institutions | Programs | Students & Learners | Instructors | Clerical Staffs |
|------|--------------|----------|---------------------|-------------|-----------------|
| 2007 | 2,221 | 100,989 | 10,124,305 | 68,221 | 7,214 |
| 2008 | 2,620 | 107,349 | 11,403,373 | 55,292 | 10,046 |
| 2009 | 2,807 | 136,123 | 22,454,539 | 57,177 | 12,873 |
| 2010 | 3,213 | 160,249 | 27,026,042 | 64,605 | 15,491 |
| 2011 | 3,591 | 182,844 | 28,920,780 | 69,016 | 16,746 |
| 2012 | 3,768 | 178,971 | 17,618,495 | 71,676 | 17,888 |
| 2013 | 3,965 | 180,843 | 18,260,301 | 72,954 | 18,376 |
| 2014 | 4,342 | 205,546 | 12,919,836 | 72,477 | 19,586 |
| 2015 | 4,144 | 211,193 | 11,982,654 | 70,835 | 18,833 |
| 2016 | 4,153 | 212,339 | 11,336,564 | 73,204 | 19,842 |
| 2017 | 4,032 | 214,413 | 11,897,236 | 71,723 | 19,778 |
| 2018 | 4,169 | 216,980 | 16,344,658 | 72,783 | 20,228 |
| 2019 | 4,295 | 244,421 | 16,348,842 | 75,492 | 19,772 |

Note: 1) Summary of non-formal lifelong educational institutions (attached to primary and secondary school, attached to higher education institution, cyber lifelong education institution, attached to company, attached to NGOs, attached to mass media institution, knowledge and HRD type, Provincial Institute for Lifelong Education (includes survey from 2017), lifelong learning centers

2) From 2016, clerical staffs at private academies have not been surveyed

Source: Ministry of Education · Korea Educational Development Institute. Statistics of Lifelong Education (Annual)

2) Lifelong Education

(Unit: Number, Person)

| Classification | | Institutions | Programs | Students & Learners | Instructors | Clerical Staffs | |
|----------------|---|--|-------------|---------------------|---------------------|-----------------|---------------|
| 2017 | Total | | 4,032 | 214,413 | 11,897,236 | 71,723 | 19,778 |
| | Attached to School | Attached to Primary and Secondary School | 5 | 73 | 1,321 | 29 | 12 |
| | | Attached to Higher Education Institution | 412 | 28,882 | 882,884 | 15,562 | 2,078 |
| | | Sub Total | 417 | 28,955 | 884,205 | 15,591 | 2,090 |
| | Cyber Lifelong Education Institution | | 949 | 70,272 | 8,013,061 | 11,399 | 5,887 |
| | Attached to Company | Attached to Retailers | 383 | 64,611 | 1,100,258 | 18,628 | 1,595 |
| | | Attached to Companies | 41 | 1,168 | 60,491 | 674 | 198 |
| | | Sub Total | 424 | 65,779 | 1,160,749 | 19,302 | 1,793 |
| | Attached to NGOs | | 515 | 4,970 | 116,438 | 3,032 | 1,405 |
| | Attached to Mass Media | | 707 | 4,557 | 151,703 | 3,414 | 1,870 |
| | Knowledge & HRD | | 579 | 10,429 | 630,856 | 6,847 | 4,197 |
| | Provincial Institute for Lifelong Education ¹⁾ | | 17 | 1,677 | 28,574 | 720 | 266 |
| | Lifelong Learning Center | | 424 <11> | 27,774 <373> | 911,650 <13,240> | 11,418 <270> | 2,270 <45> |
| 2018 | Total | | 4,169 | 216,980 | 16,344,658 | 72,783 | 20,228 |
| | Attached to School | Attached to Primary and Secondary School | 6 | 47 | 1,028 | 32 | 15 |
| | | Attached to Higher Education Institution | 412 | 27,478 | 839,631 | 14,381 | 2,118 |
| | | Sub Total | 418 | 27,525 | 840,659 | 14,413 | 2,133 |
| | Cyber Lifelong Education Institution | | 1,012 | 68,789 | 12,492,784 | 11,862 | 6,380 |
| | Attached to Company | Attached to Retailers | 381 | 66,348 | 1,065,155 | 19,308 | 1,632 |
| | | Attached to Companies | 39 | 1,291 | 62,604 | 653 | 191 |
| | | Sub Total | 420 | 67,639 | 1,127,759 | 19,961 | 1,823 |
| | Attached to NGOs | | 500 | 4,656 | 103,611 | 2,915 | 1,371 |
| | Attached to Mass Media | | 741 | 4,945 | 178,454 | 3,722 | 2,019 |
| | Knowledge & HRD | | 586 | 10,216 | 629,184 | 6,293 | 3,510 |
| | Provincial Institute for Lifelong Education ¹⁾ | | 17 | 1,505 | 34,756 | 375 | 299 |
| | Lifelong Learning Center | | 475 <23> | 31,705 <834> | 937,451 <20,271> | 13,242 <426> | 2,693 <81> |

<Table Continued>

| Classification | | Institutions | Programs | Students & Learners | Instructors | Clerical Staffs | |
|----------------|---|--|-----------------|-----------------------|-----------------|-----------------|-------|
| 2019 | Total | 4,295 | 244,421 | 16,348,842 | 75,492 | 19,772 | |
| | Attached to School | Attached to Primary and Secondary School | 7 | 49 | 1,146 | 31 | 19 |
| | | Attached to Higher Education Institution | 415 | 27,193 | 817,505 | 13,717 | 2,099 |
| | | Sub Total | 422 | 27,242 | 818,651 | 13,748 | 2,118 |
| | Cyber Lifelong Education Institution | 1,041 | 89,543 | 12,111,454 | 13,405 | 6,049 | |
| | Attached to Company | Attached to Retailers | 379 | 70,450 | 1,136,106 | 19,814 | 1,645 |
| | | Attached to Companies | 36 | 1,139 | 49,459 | 623 | 185 |
| | | Sub Total | 415 | 71,589 | 1,185,565 | 20,437 | 1,830 |
| | Attached to NGOs | 492 | 4,311 | 189,225 | 3,192 | 1,419 | |
| | Attached to Mass Media | 842 | 5,299 | 271,957 | 4,186 | 2,395 | |
| | Knowledge & HRD | 595 | 11,158 | 623,058 | 6,127 | 2,878 | |
| | Provincial Institute for Lifelong Education ¹⁾ | 17 | 1,182 | 43,588 | 548 | 287 | |
| | Lifelong Learning Center | 471 <23> | 34,097 <654> | 1,105,344 <19,758> | 13,849 <301> | 2,796 <82> | |

- Note: 1) Summary of non-formal lifelong educational institutions (attached to primary and secondary school, attached to higher education institution, cyber lifelong education institution, attached to company, attached to NGOs, attached to mass media institution, knowledge and HRD type, Provincial Institute for Lifelong Education (includes survey from 2017), lifelong learning centers
- 2) Numbers in brackets indicate lifelong learning centers that is part of other non-formal lifelong education institutions and is not included in the total number of lifelong learning centers and grand total
- 3) From 2016, clerical staffs at private academies have not been surveyed

Source: Ministry of Education · Korea Educational Development Institute. Statistics of Lifelong Education (Annual)

3) Lifelong Education Institution Types

(Unit: Number)

| Year | Total | Attached to Schools | | | Cyber Lifelong Education Institution | Attached to Company | | | Attached to NGOs | Attached to Mass Media | Knowledge & HRD | Provincial Institute for Lifelong Education ¹⁾ | Lifelong Learning Center |
|------|-------|--|--|-----------|--------------------------------------|-----------------------|-----------------------|-----------|------------------|------------------------|-----------------|---|--------------------------|
| | | Attached to Primary and Secondary School ²⁾ | Attached to Higher Education Institution | Sub Total | | Attached to Retailers | Attached to Companies | Sub Total | | | | | |
| 2007 | 2,221 | 9 | 375 | 384 | 502 | 181 | 26 | 207 | 166 | 78 | 570 | — | 314 |
| 2008 | 2,620 | 12 | 378 | 390 | 611 | 205 | 39 | 244 | 244 | 92 | 681 | — | 358 |
| 2009 | 2,807 | 11 | 380 | 391 | 674 | 239 | 29 | 268 | 275 | 107 | 713 | — | 379 |
| 2010 | 3,213 | 12 | 388 | 400 | 781 | 267 | 31 | 298 | 386 | 203 | 761 | — | 384 |
| 2011 | 3,591 | 11 | 397 | 408 | 853 | 291 | 37 | 328 | 461 | 376 | 774 | — | 391 |
| 2012 | 3,768 | 10 | 403 | 413 | 887 | 320 | 37 | 357 | 495 | 494 | 727 | — | 395 |
| 2013 | 3,965 | 8 | 405 | 413 | 876 | 340 | 35 | 375 | 524 | 703 | 687 | — | 387 |
| 2014 | 4,342 | 9 | 402 | 411 | 883 | 349 | 43 | 392 | 556 | 1,038 | 669 | — | 393 |
| 2015 | 4,144 | 9 | 403 | 412 | 903 | 369 | 45 | 414 | 549 | 882 | 626 | — | 358 |
| 2016 | 4,153 | 6 | 406 | 412 | 927 | 378 | 48 | 426 | 544 | 792 | 608 | — | 444 |
| 2017 | 4,032 | 5 | 412 | 417 | 949 | 383 | 41 | 424 | 515 | 707 | 579 | 17 | 424 |
| 2018 | 4,169 | 6 | 412 | 418 | 1,012 | 381 | 39 | 420 | 500 | 741 | 586 | 17 | 475 |
| 2019 | 4,295 | 7 | 415 | 422 | 1,041 | 379 | 36 | 415 | 492 | 842 | 595 | 17 | 471 |

Note: 1) Summary of non-formal lifelong educational institutions (attached to primary and secondary school, attached to higher education institution, cyber lifelong education institution, attached to company, attached to NGOs, attached to mass media institution, knowledge and HRD type, Provincial Institute for Lifelong Education (includes survey from 2017), lifelong learning centers

2) From 2016 Lifelong Education Statistics Database replaced 'affiliated preschool, elementary, middle schools' to 'affiliated elementary, middle school'

Source: Ministry of Education · Korea Educational Development Institute. Statistics of Lifelong Education (Annual)

4) Lifelong Education Institution Characteristics

(Unit: Number)

| Year | Classification | | Institutions | Programs | Students & Learners | Instructors | Clerical Staffs |
|-------|---|--|--------------|----------|---------------------|-------------|-----------------|
| 2017 | Total | | 4,032 | 459 | 308 | 73 | 3,192 |
| | Attached to School | Attached to Primary and Secondary School | 5 | - | - | - | 5 |
| | | Attached to Higher Education Institution | 412 | 31 | 195 | 33 | 153 |
| | | Sub Total | 417 | 31 | 195 | 33 | 158 |
| | Cyber Lifelong Education Institution | | 949 | 122 | 80 | 20 | 727 |
| | Attached to Company | Attached to Retailers | 383 | - | - | 1 | 382 |
| | | Attached to Companies | 41 | 7 | 1 | - | 33 |
| | | Sub Total | 424 | 7 | 1 | 1 | 415 |
| | Attached to NGOs | | 515 | 37 | 4 | 4 | 470 |
| | Attached to Mass Media | | 707 | 115 | 4 | 6 | 582 |
| | Knowledge & HRD | | 579 | 145 | 17 | 4 | 413 |
| | Provincial Institute for Lifelong Education ¹⁾ | | 17 | - | - | - | 17 |
| | Lifelong Learning Center | | 424 <11> | 2 <2> | 7 <3> | 5 <-> | 410 <6> |
| Total | | 4,169 | 436 | 299 | 66 | 3,368 | |
| 2018 | Attached to School | Attached to Primary and Secondary School | 6 | - | - | - | 6 |
| | | Attached to Higher Education Institution | 412 | 32 | 192 | 30 | 158 |
| | | Sub Total | 418 | 32 | 192 | 30 | 164 |
| | Cyber Lifelong Education Institution | | 1,012 | 125 | 77 | 14 | 796 |
| | Attached to Company | Attached to Retailers | 381 | - | - | - | 381 |
| | | Attached to Companies | 39 | 10 | 1 | - | 28 |
| | | Sub Total | 420 | 10 | 1 | - | 409 |
| | Attached to NGOs | | 500 | 36 | 4 | 5 | 455 |
| | Attached to Mass Media | | 741 | 102 | 4 | 7 | 628 |
| | Knowledge & HRD | | 586 | 129 | 14 | 5 | 438 |
| | Provincial Institute for Lifelong Education ¹⁾ | | 17 | - | - | - | 17 |
| | Lifelong Learning Center | | 475 <23> | 2 <3> | 7 <3> | 5 <-> | 461 <17> |

<Table Continued>

| Year | Classification | Institutions | Programs | Students & Learners | Instructors | Clerical Staffs | |
|------|---|--|----------|---------------------|-------------|-----------------|-----|
| 2019 | Total | 4,295 | 472 | 305 | 74 | 3,444 | |
| | Attached to School | Attached to Primary and Secondary School | 7 | – | – | – | 7 |
| | | Attached to Higher Education Institution | 415 | 31 | 197 | 32 | 155 |
| | | Sub Total | 422 | 31 | 197 | 32 | 162 |
| | Cyber Lifelong Education Institution | 1,041 | 151 | 81 | 17 | 792 | |
| | Attached to Company | Attached to Retailers | 379 | – | – | – | 379 |
| | | Attached to Companies | 36 | 7 | 1 | – | 28 |
| | | Sub Total | 415 | 7 | 1 | – | 407 |
| | Attached to NGOs | 492 | 35 | 2 | 8 | 447 | |
| | Attached to Mass Media | 842 | 106 | 3 | 6 | 727 | |
| | Knowledge & HRD | 595 | 135 | 14 | 6 | 440 | |
| | Provincial Institute for Lifelong Education ¹⁾ | 17 | 1 | – | – | 16 | |
| | Lifelong Learning Center | 471 <23> | 6 <3> | 7 <3> | 5 <–> | 453 <17> | |

- Note: 1) Summary of non-formal lifelong educational institutions (attached to primary and secondary school, attached to higher education institution, cyber lifelong education institution, attached to company, attached to NGOs, attached to mass media institution, knowledge and HRD type, Provincial Institute for Lifelong Education (includes survey from 2017), lifelong learning centers)
- 2) From 2016 Lifelong Education Statistics Database replaced 'affiliated preschool, elementary, middle schools' to 'affiliated elementary, middle school'
- 3) Vocational training designated institutions are institutions operating vocational training program during the period of May 2nd previous year to May 1st current year (2017: May 2, 2016–May 1, 2017, 2018: May 2, 2017–May 1, 2018, 2019: May 2, 2018–May 1, 2019)
- 4) The number in brackets represents the superintendent of education designated lifelong learning centers that are part of other non-formal lifelong education institutions, and is included in the total number of lifelong learning centers but not in the total shown in this table

Source: Ministry of Education · Korea Educational Development Institute, Statistics of Lifelong Education (Annual)

5) Lifelong Education Program by Themes

(Unit: Number)

| Year | Classification | | Total | Supplement ary Courses for Qualification | Basic Education, Literacy Program for Adults | Vocational Skill-set Upgrade | Humanities | Culture & Arts | Social Participat ion |
|------|--|---|-----------------|---|--|------------------------------------|---------------|-------------------|-----------------------------|
| 2017 | Total | | 164,529 | 21,246 | 636 | 67,513 | 22,613 | 52,320 | 201 |
| | Attached to School | Attached to Primary and Secondary School | 73 | - | 6 | 6 | 51 | 8 | 2 |
| | | Attached to Higher Education Institution | 27,688 | 14,223 | 24 | 4,645 | 2,661 | 6,108 | 27 |
| | | Sub Total | 27,761 | 14,223 | 30 | 4,651 | 2,712 | 6,116 | 29 |
| | Cyber Lifelong Education Institution | | 65,656 | 5,126 | 7 | 53,595 | 6,347 | 581 | - |
| | Attached to Company | Attached to Retailers | 33,057 | 3 | - | 874 | 3,207 | 28,973 | - |
| | | Attached to Companies | 1,048 | 42 | 1 | 122 | 182 | 699 | 2 |
| | | Sub Total | 34,105 | 45 | 1 | 996 | 3,389 | 29,672 | 2 |
| | Attached to NGOs | | 3,239 | 134 | 115 | 974 | 572 | 1,419 | 25 |
| | Attached to Mass Media | | 3,913 | 71 | 21 | 1,411 | 658 | 1,743 | 9 |
| | Knowledge & HRD | | 8,583 | 1,237 | 25 | 3,373 | 897 | 3,036 | 15 |
| | Provincial Institute for Lifelong Education ¹⁾ | | 888 | - | 3 | 169 | 304 | 398 | 14 |
| | Lifelong Learning Center | | 20,384 <369> | 410 <279> | 434 <2> | 2,344 <43> | 7,734 <20> | 9,355 <23> | 107 <2> |
| 2018 | Total | | 164,121 | 20,947 | 712 | 65,113 | 23,202 | 53,885 | 262 |
| | Attached to School | Attached to Primary and Secondary School | 47 | 1 | 5 | 6 | 30 | 3 | 2 |
| | | Attached to Higher Education Institution | 25,971 | 12,620 | 28 | 4,294 | 2,681 | 6,312 | 36 |
| | | Sub Total | 26,018 | 12,621 | 33 | 4,300 | 2,711 | 6,315 | 38 |
| | Cyber Lifelong Education Institution | | 64,223 | 6,900 | 3 | 50,611 | 6,083 | 626 | - |
| | Attached to Company | Attached to Retailers | 33,303 | 4 | - | 821 | 3,294 | 29,184 | - |
| | | Attached to Companies | 1,057 | 42 | 1 | 127 | 163 | 722 | 2 |
| | | Sub Total | 34,360 | 46 | 1 | 948 | 3,457 | 29,906 | 2 |
| | Attached to NGOs | | 3,251 | 57 | 128 | 1,051 | 577 | 1,397 | 41 |
| | Attached to Mass Media | | 4,260 | 89 | 16 | 1,577 | 586 | 1,985 | 7 |
| | Knowledge & HRD | | 7,975 | 789 | 24 | 3,750 | 902 | 2,498 | 12 |
| | Provincial Institute for Lifelong Education ¹⁾ | | 661 | - | 2 | 144 | 198 | 303 | 14 |
| | Lifelong Learning Center | | 23,373 <40> | 445 <294> | 505 <4> | 2,732 <73> | 8,688 <49> | 10,855 <63> | 148 <7> |

(Table Continued)

| Year | Classification | | Total | Supplement ary Courses for Qualification | Basic Education, Literacy Program for Adults | Vocational Skill-set Upgrade | Humanities | Culture & Arts | Social Participat ion |
|------|--|---|-----------------|---|--|------------------------------------|---------------|-------------------|-----------------------------|
| 2019 | Total | | 184,617 | 20,957 | 700 | 76,033 | 30,187 | 56,533 | 207 |
| | Attached to School | Attached to Primary and Secondary School | 46 | 1 | 5 | 3 | 25 | 10 | 2 |
| | | Attached to Higher Education Institution | 26,282 | 12,404 | 17 | 3,887 | 2,922 | 7,021 | 31 |
| | | Sub Total | 26,328 | 12,405 | 22 | 3,890 | 2,947 | 7,031 | 33 |
| | Cyber Lifelong Education Institution | | 81,878 | 7,151 | 1 | 61,470 | 11,892 | 1,364 | - |
| | Attached to Company | Attached to Retailers | 33,304 | - | - | 690 | 3,401 | 29,213 | - |
| | | Attached to Companies | 910 | 39 | 1 | 132 | 122 | 613 | 3 |
| | | Sub Total | 34,214 | 39 | 1 | 822 | 3,523 | 29,826 | 3 |
| | Attached to NGOs | | 3,282 | 70 | 119 | 1,028 | 607 | 1,421 | 37 |
| | Attached to Mass Media | | 4,528 | 88 | 11 | 1,552 | 517 | 2,356 | 4 |
| | Knowledge & HRD | | 8,985 | 849 | 24 | 4,434 | 890 | 2,782 | 6 |
| | Provincial Institute for Lifelong Education ¹⁾ | | 682 | - | 6 | 144 | 218 | 309 | 5 |
| | Lifelong Learning Center | | 24,720 <403> | 355 <168> | 516 <4> | 2,693 <78> | 9,593 <62> | 11,444 <85> | 119 <6> |

- Note: 1) Summary of non-formal lifelong educational institutions (attached to primary and secondary school, attached to higher education institution, cyber lifelong education institution, attached to company, attached to NGOs, attached to mass media institution, knowledge and HRD type, Provincial Institute for Lifelong Education (includes survey from 2017), lifelong learning centers
- 2) From 2016 Lifelong Education Statistics Database replaced 'affiliated preschool, elementary, middle schools' to 'affiliated elementary, middle school'
- 3) The number in brackets indicate the superintendent of education designated lifelong learning centers that are part of other non-formal lifelong education institutions, and is included in the total number of lifelong learning centers but not in the total shown in this table
- 4) Applicable to month-long programs or longer
- Source: Ministry of Education · Korea Educational Development Institute. Statistics of Lifelong Education (Annual)

6) Lifelong Learning Participation Rate

(Unit: Percent)

| Classification | | Total Participation Rate (Formal, Non-formal) | Participation Rate by Field | | |
|--------------------------------|--|--|-----------------------------|----------------------|-------------|
| | | | Formal Education | Non-formal Education | |
| | | | | Total | Job Related |
| Total | | 41,7 | 1,5 | 40,9 | 18,7 |
| Gender | Male | 40,8 | 1,7 | 39,9 | 23,8 |
| | Female | 42,6 | 1,3 | 41,9 | 13,6 |
| Age | 25-34 | 50,6 | 5,6 | 47,9 | 29,8 |
| | 35-44 | 45,7 | 1,1 | 45,0 | 25,0 |
| | 45-54 | 41,7 | 0,6 | 41,4 | 20,0 |
| | 55-64 | 37,1 | 0,4 | 36,8 | 12,4 |
| | 65-79 | 32,5 | 0,1 | 32,4 | 4,9 |
| Educational Attainment | Middle School & Under | 29,1 | 0,2 | 28,9 | 5,7 |
| | High School | 35,7 | 1,8 | 34,8 | 14,2 |
| | College, University & Over | 51,4 | 1,7 | 50,5 | 27,5 |
| Economic Activity Status | Employed | 42,5 | 0,7 | 42,1 | 23,6 |
| | Unemployed | 48,3 | 5,9 | 46,8 | 21,6 |
| | Economically Inactive | 37,7 | 3,2 | 35,6 | 2,7 |
| Monthly Household Income | Under 1500 Thousand Won | 30,5 | 0,6 | 30,4 | 8,1 |
| | 1500-3000 Thousand Won | 35,1 | 0,9 | 34,6 | 13,9 |
| | 3000-5000 Thousand Won | 40,0 | 1,0 | 39,4 | 18,4 |
| | Over 5000 Thousand Won | 46,6 | 2,1 | 45,5 | 22,0 |
| Employment Type | Wage and Salary Worker (Regular Employees) | 49,5 | 0,7 | 49,1 | 30,6 |
| | Wage and Salary Worker (Temporary and Daily Worker) | 31,8 | 1,5 | 31,1 | 14,0 |
| | Non-Paid Worker | 34,9 | 0,4 | 34,7 | 15,7 |
| Region | Seoul & Metropolitan City | 42,7 | 1,8 | 41,6 | 18,0 |
| | Small- & Medium-sized Cities | 41,9 | 1,4 | 41,3 | 18,8 |
| | Farming & Fishing Villages | 37,9 | 0,7 | 37,6 | 20,7 |

Note: 1) Status of all participants (age 25 to 79) of 2019 Lifelong Education Individual Status Survey
 2) Adults aged 25-79 who learned in both formal and non-formal education accounts for 0.7%
 3) 'Job-related' is status on participation of non-formal education for job-related purposes which includes 'employment, job change, or starting business,' 'acquisition of skills necessary for work,' 'income increase such as from performance pay or salary,' 'employment stability'

Source: Ministry of Education, Korea Educational Development Institute, Lifelong Educational Statistics (2019)

7) Job-Related Non-Formal Education Participation Rate

(Unit: Percent)

| Classification | By Education Level | | | | |
|--------------------------------|------------------------------|--------------------------------|----------------------|---------------------------------------|------|
| | Total | Middle School Graduate & Under | High School Graduate | College or University Graduate & Over | |
| Total | 18,7 | 5,7 | 14,2 | 27,5 | |
| Gender | Male | 23,8 | 11,4 | 17,6 | 31,3 |
| | Female | 13,6 | 2,5 | 11,0 | 22,5 |
| Age | 25-34 | 29,8 | 11,5 | 24,3 | 31,2 |
| | 35-44 | 25,0 | 28,0 | 16,2 | 28,3 |
| | 45-54 | 20,0 | 9,9 | 15,8 | 25,4 |
| | 55-64 | 12,4 | 8,8 | 11,5 | 20,1 |
| | 65-79 | 4,9 | 3,8 | 7,1 | 9,8 |
| Economically Active Population | Employed | 23,6 | 12,0 | 17,6 | 30,5 |
| | Unemployed | 21,6 | 1,4 | 15,7 | 29,1 |
| | Economically Inactive | 2,7 | 0,4 | 3,2 | 5,9 |
| Region | Seoul & Metropolitan City | 18,0 | 3,9 | 12,8 | 26,6 |
| | Small- & Medium-sized Cities | 18,8 | 4,7 | 14,0 | 26,9 |
| | Farming & Fishing Villages | 20,7 | 9,7 | 18,5 | 33,3 |

Note: Among respondents (adults aged 25–79) of Lifelong Education Individual Status Survey in 2019 who participated in non-formal education for job-related purposes which includes 'employment, job change, or starting business,' 'acquisition of skills necessary for work,' 'income increase such as from performance pay or salary,' 'employment stability'

Source: Ministry of Education, Korea Educational Development Institute. Lifelong Educational Statistics (2019)

8) Lifelong Learning Participation Hours

(Unit: Hour)

| Classification | | Total Participation Hours (Formal, Non-formal) | Participation Hours by Field | | |
|--------------------------|---------------------------------------|---|------------------------------|----------------------|---------------------------|
| | | | Formal Education | Non-Formal Education | |
| | | | | Total | Job-related ²⁾ |
| Total | | 97 | 594 | 78 | 48 |
| Gender | Male | 93 | 709 | 65 | 37 |
| | Female | 101 | 438 | 90 | 66 |
| Age | 25-34 | 155 | 688 | 83 | 68 |
| | 35-44 | 76 | 372 | 68 | 43 |
| | 45-54 | 83 | 407 | 77 | 44 |
| | 55-64 | 85 | 381 | 81 | 28 |
| | 65-79 | 85 | 861 | 82 | 23 |
| Level of Education | Middle School Graduate & Under | 77 | 767 | 71 | 16 |
| | High School Graduate | 109 | 738 | 74 | 35 |
| | College or University Graduate & Over | 95 | 453 | 81 | 56 |
| Economic Activity Status | Employed | 72 | 469 | 65 | 36 |
| | Unemployed | 208 | 609 | 138 | 175 |
| | Economically Inactive | 158 | 672 | 107 | 158 |
| Monthly Household Income | Less than KRW 1.5 Million | 102 | 680 | 90 | 116 |
| | KRW 1.5-3 Million | 92 | 592 | 78 | 50 |
| | KRW 3-5 Million | 88 | 449 | 77 | 47 |
| | Over KRW 5 Million | 104 | 652 | 76 | 44 |
| Region | Seoul and Metropolitan City | 112 | 637 | 87 | 50 |
| | Small- and Medium-sized Cities | 90 | 562 | 72 | 48 |
| | Farming and Fishing Villages | 70 | 436 | 63 | 40 |

Note: 1) Status on participants (age 25–79) of the 2019 Lifelong Education Individual Status Survey

2) 'Job-related' is status on participation of non-formal education for job-related purposes which includes 'employment, job change, or starting business,' 'acquisition of skills necessary for work,' 'income increase such as from performance pay or salary,' 'employment stability'

3) Annual average participation time

Source: Ministry of Education · Korea Educational Development Institute, Lifelong Educational Statistics (2019)

9) Lifelong Education Main Obstacles of Participation

(Unit: Percent)

| Classification | | There was a lifelong learning program that I could not participate in | Reasons for not participating despite wanting to | | | | | | | | | | |
|--------------------------|---------------------------------------|---|--|---|------------------------------------|--------------------------------|---------------|----------------------------------|------------------------------|----------------|---------------------------|------------------------------------|-------|
| | | | Work reasons | Lack of training institution in close proximity | Lack of time due to family support | Lack of motivation, confidence | Too expensive | Lack of information on education | No friend to attend together | Health reasons | Non-satisfactory facility | Non-satisfactory training contents | Other |
| Total | | 31,2 | 56,8 | 15,6 | 13,2 | 10,9 | 9,6 | 7,5 | 5,9 | 4,6 | 1,5 | 1,5 | 0,6 |
| Gender | Male | 27,6 | 69,6 | 12,9 | 5,8 | 9,4 | 8,8 | 7,8 | 4,9 | 3,6 | 1,4 | 1,3 | 0,4 |
| | Female | 34,9 | 46,6 | 17,7 | 19,0 | 12,0 | 10,2 | 7,2 | 6,8 | 5,4 | 1,6 | 1,6 | 0,7 |
| Age | 25-34 | 32,3 | 62,3 | 13,0 | 11,2 | 7,1 | 13,1 | 7,0 | 5,9 | 2,8 | 1,4 | 1,4 | 0,9 |
| | 35-44 | 35,6 | 61,7 | 15,7 | 23,6 | 7,0 | 8,2 | 6,7 | 3,2 | 1,2 | 2,0 | 2,1 | 0,3 |
| | 45-54 | 33,1 | 64,6 | 14,6 | 12,3 | 11,9 | 6,8 | 7,1 | 5,6 | 2,0 | 1,3 | 1,2 | 0,8 |
| | 55-64 | 29,5 | 56,2 | 16,6 | 7,7 | 10,6 | 9,1 | 9,2 | 6,7 | 7,1 | 0,9 | 1,6 | 0,5 |
| | 65-79 | 23,8 | 24,0 | 19,7 | 6,6 | 22,3 | 13,3 | 7,8 | 10,9 | 15,3 | 2,0 | 1,0 | 0,3 |
| Level of Education | Middle School Graduate & Under | 26,6 | 29,5 | 18,7 | 5,7 | 20,1 | 12,1 | 7,0 | 12,9 | 15,8 | 1,7 | 1,0 | 0,1 |
| | High School Graduate | 31,4 | 59,3 | 15,1 | 14,2 | 11,9 | 9,4 | 7,3 | 5,6 | 2,8 | 1,0 | 1,3 | 0,2 |
| | College or University Graduate & Over | 32,8 | 63,0 | 15,1 | 14,6 | 7,2 | 9,0 | 7,8 | 4,2 | 2,8 | 1,9 | 1,7 | 1,1 |
| Economic Activity Status | Employed | 32,7 | 73,4 | 13,1 | 9,0 | 8,2 | 7,5 | 6,9 | 4,8 | 1,7 | 1,3 | 1,4 | 0,5 |
| | Unemployed | 37,0 | 5,9 | 26,5 | 16,1 | 25,0 | 27,3 | 11,5 | 14,6 | 6,1 | 0,6 | 2,8 | 3,5 |
| | Economically Inactive | 25,4 | 4,5 | 22,4 | 29,3 | 17,3 | 12,7 | 8,8 | 7,9 | 16,3 | 2,5 | 1,2 | 0,2 |
| Monthly Household Income | Less than KRW 1.5 Million | 24,6 | 21,0 | 25,3 | 6,2 | 19,6 | 21,0 | 5,8 | 8,6 | 18,4 | 2,8 | 0,9 | 0,0 |
| | KRW 1.5-3 Million | 29,8 | 40,5 | 17,1 | 12,5 | 14,9 | 12,2 | 9,1 | 8,5 | 9,4 | 1,4 | 1,0 | 0,2 |
| | KRW 3-5 Million | 33,0 | 57,1 | 14,4 | 16,5 | 10,4 | 8,7 | 7,2 | 6,2 | 3,4 | 1,6 | 1,9 | 0,6 |
| | Over KRW 5 Million | 30,9 | 65,5 | 15,3 | 10,8 | 9,1 | 7,8 | 7,5 | 4,7 | 3,0 | 1,3 | 1,2 | 0,7 |
| Region | Seoul and Metropolitan City | 33,0 | 58,0 | 14,2 | 13,1 | 13,4 | 11,1 | 6,8 | 6,0 | 4,7 | 0,9 | 1,7 | 0,4 |
| | Small- and Medium-sized Cities | 29,3 | 57,1 | 13,0 | 13,6 | 9,3 | 8,4 | 8,8 | 6,8 | 4,7 | 1,9 | 1,3 | 0,7 |
| | Farming and Fishing Villages | 30,9 | 52,4 | 26,5 | 12,5 | 6,9 | 7,7 | 6,5 | 3,7 | 4,2 | 2,3 | 1,5 | 0,6 |

Note: 1) 'There was a lifelong program I could not participate in' shows status of all participants (age 25-79) of 2019 Lifelong Education Individual Status Survey

2) 'Reasons for not participating despite wanting to' shows status of respondents (age 25-79) who were willing to participate in lifelong learning but failed to - duplicate response was allowed

Source: Ministry of Education · Korea Educational Development Institute, Lifelong Educational Statistics (2019)

4. Industry-Academia Cooperation

1) Reeducation Type Agreed Department Operations

(Unit: Number, Person, Percent)

| Classification | | Number of Agreed Department | | | Students Enrolled | | |
|---------------------|--------------------------------------|-----------------------------|------|-------------------|-------------------|-------|-------------------|
| | | 2018 | 2019 | Percentage Change | 2018 | 2019 | Percentage Change |
| Total (196 Schools) | | 241 | 277 | △13,0 | 6,477 | 7,203 | △10,1 |
| Establishment | National & Public (40 Schools) | 70 | 74 | △5,4 | 2,542 | 2,582 | △1,5 |
| | Private (156 Schools) | 171 | 203 | △15,8 | 3,935 | 4,621 | △14,8 |
| Location | Capital Region (73 Schools) | 121 | 140 | △13,6 | 2,609 | 3,215 | △18,8 |
| | Non-capital Region (123 Schools) | 120 | 137 | △12,4 | 3,868 | 3,988 | △3,0 |
| University Type | General University (186 Schools) | 241 | 277 | △13,0 | 6,477 | 7,203 | △10,1 |
| | University of Education (10 Schools) | 0 | 0 | 0,0 | 0 | 0 | 0,0 |

Note: 1) As of April 1, 2019

2) Based on undergraduate programs in operation within universities

3) Starting in 2018, those with terminated industry contracts are excluded from number of agreed departments even if enrolled students exist

Source: Ministry of Education, Korean Council for University Education, Announcement for June 2019 University Information Disclosure, Press Release (June 28, 2019)

2) Condition of Employment Agreed Department Operations

(Unit: Number, Person, Percent)

| Classification | | Number of Agreed Department | | | Students Enrolled | | |
|---------------------|--------------------------------------|-----------------------------|------|-------------------|-------------------|-------|-------------------|
| | | 2018 | 2019 | Percentage Change | 2018 | 2019 | Percentage Change |
| Total (196 Schools) | | 28 | 21 | 33,3 | 1,506 | 1,232 | 22,2 |
| Establishment | National & Public (40 Schools) | 6 | 2 | 200,0 | 329 | 229 | 43,7 |
| | Private (156 Schools) | 22 | 19 | 15,8 | 1,177 | 1,003 | 17,3 |
| Location | Capital Region (73 Schools) | 16 | 9 | 77,8 | 1,061 | 826 | 28,5 |
| | Non-capital Region (123 Schools) | 12 | 12 | 0,0 | 445 | 406 | 9,6 |
| University Type | General University (186 Schools) | 28 | 21 | 33,3 | 1,506 | 1,232 | 22,2 |
| | University of Education (10 Schools) | 0 | 0 | 0 | 0 | 0 | 0,0 |

Note: 1) As of April 1, 2019

2) Based on undergraduate programs in operation within universities

3) Starting in 2018, those with terminated industry contracts are excluded from number of agreed department even if enrolled students exist

Source: Ministry of Education, Korean Council for University Education. Announcement for June 2019 University Information Disclosure. Press Release (June 28, 2019)

3) Technical College and College in the Company

(Unit: School, Number, Person)

| Year | Technical College | | | College in the Company | | |
|------|-------------------|-----------------------|----------|------------------------|-----------------------|-----------|
| | Number of Schools | Number of Departments | Students | Number of Schools | Number of Departments | Students |
| 2004 | 1 (-) | 2 (-) | 196 (94) | 1 (1) | 2 (2) | 62 (62) |
| 2005 | 1 (-) | 4 (2) | 189 (87) | 1 (-) | 3 (2) | 61 (30) |
| 2006 | 1 (-) | 5 (2) | 195 (65) | 1 (-) | 1 (-) | 63 (-) |
| 2007 | 1 (-) | 4 (1) | 182 (43) | 2 (1) | 2 (1) | 134 (39) |
| 2008 | 1 (-) | 6 (2) | 171 (39) | 2 (1) | 2 (1) | 165 (69) |
| 2009 | 1 (-) | 4 (1) | 168 (38) | 2 (1) | 2 (1) | 166 (70) |
| 2010 | 1 (-) | 4 (1) | 155 (34) | 2 (1) | 2 (1) | 171 (79) |
| 2011 | 1 (-) | 4 (1) | 176 (41) | 2 (1) | 2 (1) | 176 (83) |
| 2012 | 1 (-) | 4 (1) | 187 (44) | 3 (2) | 3 (2) | 223 (129) |
| 2013 | 1 (-) | 4 (1) | 170 (42) | 7 (4) | 9 (5) | 462 (251) |
| 2014 | 1 (-) | 4 (1) | 162 (41) | 8 (5) | 11 (7) | 693 (400) |
| 2015 | 1 (-) | 4 (1) | 122 (19) | 8 (5) | 11 (7) | 782 (474) |
| 2016 | 1 (-) | 3 (1) | 98 (1) | 8 (5) | 11 (7) | 778 (445) |
| 2017 | 1 (-) | 3 (1) | 97 (1) | 8 (5) | 11 (7) | 605 (318) |
| 2018 | 1 (-) | 3 (1) | 94 (10) | 8 (5) | 10 (6) | 504 (246) |
| 2019 | 1 (-) | 3 (1) | 76 (10) | 8 (5) | 9 (5) | 451 (204) |

Note: 1) Technical college offers both junior college and university programs from one university

2) College in the company refers to 'educational facilities in the form of college in the companies'

3) Numbers indicated are both university and junior college programs combined, and numbers in bracket indicate the number of junior college programs

4) Number of students = enrolled students + students on leave

Source: Ministry of Education, Korean Educational Development Institute, Statistics Yearbook of Education (Annual)

4) Startup Clubs

(Unit: Number, Percent)

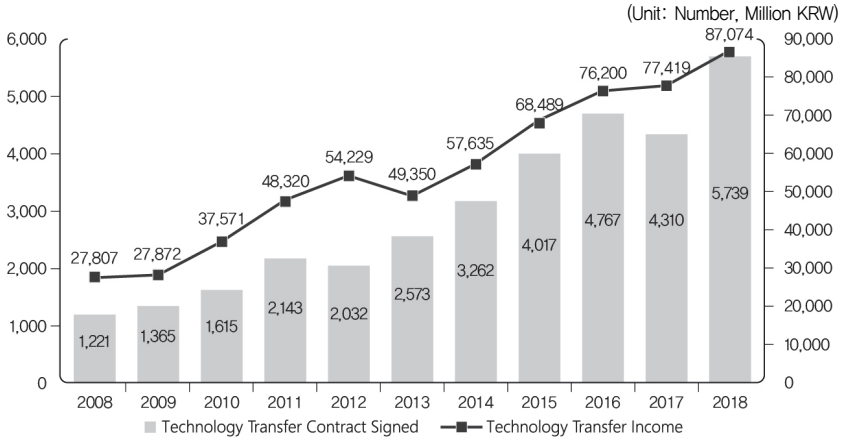
| Classification | | University with Entrepreneurship Clubs | | | Number of Clubs | | | Number of Members | | |
|----------------|---------------------|--|------------|----------------|-----------------|-----------------|-----------------|-------------------|-------------------|-------------------|
| | | Total | University | Junior College | Total | University | Junior College | Total | University | Junior College |
| 2012 | Frequency (Average) | 151 | 105 | 46 | 1,933 (12.8) | 1,497 (14.3) | 436 (9.5) | 22,730 (150.5) | 15,452 (147.2) | 7,278 (158.2) |
| 2013 | Frequency (Average) | 220 | 132 | 88 | 2,782 (12.6) | 1,912 (14.5) | 870 (9.9) | 32,573 (148.1) | 16,971 (128.6) | 15,602 (177.3) |
| | Percent Change | 45.7 | 25.7 | 91.3 | 43.9 | 27.7 | 99.5 | 43.3 | 9.8 | 114.4 |
| 2014 | Frequency (Average) | 248 | 150 | 98 | 3,690 (14.9) | 2,678 (17.9) | 1,012 (10.3) | 37,407 (150.8) | 21,616 (144.1) | 15,791 (161.1) |
| | Percent Change | 12.7 | 13.6 | 11.4 | 32.6 | 40.1 | 16.3 | 14.8 | 27.4 | 1.2 |
| 2015 | Frequency (Average) | 259 | 151 | 108 | 4,380 (16.9) | 3,303 (21.9) | 1,077 (10.0) | 38,588 (149.0) | 23,285 (154.2) | 15,303 (141.7) |
| | Percent Change | 4.4 | 0.7 | 10.2 | 18.7 | 23.3 | 6.4 | 3.2 | 7.7 | -3.1 |
| 2016 | Frequency (Average) | 268 | 152 | 116 | 5,468 (20.4) | 4,202 (27.6) | 1,266 (10.9) | 45,387 (169.4) | 28,622 (188.3) | 16,765 (144.5) |
| | Percent Change | 3.5 | 0.7 | 7.4 | 24.8 | 27.2 | 17.5 | 17.6 | 22.9 | 9.6 |
| 2017 | Frequency (Average) | 283 | 160 | 123 | 5,596 (19.8) | 4,451 (27.8) | 1,145 (9.3) | 41,440 (146.4) | 26,502 (165.6) | 14,938 (121.4) |
| | Percent Change | 5.6 | 5.3 | 6.0 | 2.3 | 5.9 | -9.6 | -8.7 | -7.4 | -10.9 |
| 2018 | Frequency (Average) | 283 | 160 | 123 | 5,711 (20.2) | 4,501 (28.1) | 1,210 (9.8) | 43,923 (155.2) | 27,786 (173.7) | 16,137 (131.2) |
| | Percent Change | 0.0 | 0.0 | 0.0 | 2.1 | 1.1 | 5.7 | 6.0 | 4.8 | 8.0 |

Note: 1) Average number of clubs = number of clubs ÷ universities with club

2) Average number of participating students = number of participating students ÷ number of clubs

Source: Ministry of Education, National Research Foundation of Korea (2017, 2018, 2019). Survey Report on University Industry-Academia Cooperation Activities

5) Industry-Academia Cooperation Foundation's Technology Transfer Income and Contract Volume



Note: As of December 31, corresponding year
 Source: Ministry of Education, National Research Foundation of Korea, Survey Report on University Industry-academia Cooperation Activities (Annual)

6) In-Service Training Operations

(Unit: Person, Number)

| Classification | No. of Operating University | | | No. of Completed Students | | | No. of Participating Companies | | |
|----------------|-----------------------------|------------|----------------|---------------------------|------------|----------------|--------------------------------|------------|----------------|
| | Total | University | Junior College | Total | University | Junior College | Total | University | Junior College |
| 2012 | 319 | 174 | 145 | 110,951 | 47,720 | 63,231 | 63,566 | 28,151 | 35,415 |
| 2013 | 314 | 165 | 149 | 135,701 | 61,587 | 74,114 | 77,177 | 36,576 | 40,601 |
| 2014 | 403 | 234 | 169 | 149,749 | 65,738 | 84,011 | 89,485 | 41,099 | 48,386 |
| 2015 | 301 | 160 | 141 | 159,297 | 71,410 | 87,887 | 95,669 | 45,179 | 50,490 |
| 2016 | 305 | 163 | 142 | 160,324 | 71,735 | 88,589 | 97,413 | 46,218 | 51,195 |
| 2017 | 300 | 160 | 140 | 153,182 | 69,411 | 83,771 | 93,557 | 45,093 | 48,464 |
| 2018 | 310 | 157 | 153 | 145,221 | 71,236 | 73,985 | 88,300 | 46,229 | 42,071 |

Note: 1) Survey years count from March of corresponding year to February of following year
 2) Surveyed to domestic university, junior college, graduate school, etc. with obligations on annual university information disclosure

Source: Ministry of Education, National Research Foundation of Korea (2017, 2018, 2019), Survey Report on University Industry-Academia Cooperation Activities

2020

Human Resources
Development Indicators
in Korea

III. Vocational Skills Development



1. Education and Training Participation by Individuals
2. Corporate Education and Training Implementation
3. Government Program on Vocational Skills Development
4. Other Status

1. Education and Training Participation by Individuals

1) Wage and Salary Workers' Education and Training Experience by Demographics

(Unit: Percent, Percentage Point, Year-on-year)

| Classification | Aug. 2014 | Aug. 2015 | Aug. 2016 | Aug. 2017 | Aug. 2018 | Aug. 2019 | | |
|------------------------------|---------------------------------------|-----------|-----------|-----------|-----------|-----------|--------|------|
| | | | | | | | Change | |
| Wage and Salary Worker Total | 52.5 | 53.2 | 57.0 | 56.6 | 56.5 | 53.9 | -2.6 | |
| Gender | Male | 54.7 | 55.4 | 59.2 | 59.4 | 58.4 | 55.9 | -2.5 |
| | Female | 49.7 | 50.4 | 54.2 | 53.2 | 54.1 | 51.4 | -2.7 |
| Age | 15-29 | 52.1 | 52.6 | 56.7 | 54.4 | 54.2 | 49.0 | -5.2 |
| | 30s | 59.9 | 61.1 | 65.7 | 65.7 | 64.5 | 60.7 | -3.8 |
| | 40s | 54.6 | 55.5 | 59.6 | 59.9 | 59.0 | 57.4 | -1.6 |
| | 50s | 48.1 | 49.9 | 53.3 | 53.1 | 53.8 | 52.5 | -1.3 |
| | 60 & Over | 36.0 | 35.7 | 39.2 | 40.8 | 44.1 | 44.5 | 0.4 |
| Educational Attainment | Middle School Graduate & Under | 30.8 | 31.5 | 33.5 | 35.0 | 36.8 | 38.5 | 1.7 |
| | High School Graduate | 42.2 | 42.5 | 47.4 | 46.3 | 45.1 | 43.6 | -1.5 |
| | Junior College Graduate | 58.8 | 58.8 | 62.3 | 62.4 | 62.7 | 57.0 | -5.7 |
| | College or University Graduate & Over | 70.6 | 71.3 | 74.1 | 73.0 | 72.0 | 67.7 | -4.3 |
| Regular/Non-regular Worker | Regular Worker | 57.0 | 58.1 | 62.6 | 62.6 | 62.3 | 61.0 | -1.3 |
| | Non-regular Worker | 43.0 | 43.0 | 45.6 | 44.4 | 44.3 | 41.3 | -3 |

(Table continued)

| Classification | | Aug. 2014 | Aug. 2015 | Aug. 2016 | Aug. 2017 | Aug. 2018 | Aug. 2019 | |
|-----------------------------------|----------------------------|-----------|-----------|-----------|-----------|-----------|-----------|------|
| | | | | | | | | |
| Size of Establishment | 1-4 Employees | 20.5 | 22.2 | 23.3 | 24.7 | 23.5 | 23.0 | -0.5 |
| | 5-9 Employees | 31.9 | 33.2 | 37.1 | 37.3 | 37.5 | 34.9 | -2.6 |
| | 10-29 Employees | 50.7 | 51.2 | 56.2 | 54.6 | 53.9 | 50.1 | -3.8 |
| | 30-99 Employees | 64.8 | 65.5 | 69.3 | 69.0 | 68.5 | 65.0 | -3.5 |
| | 100-299 Employees | 74.6 | 73.3 | 79.1 | 76.8 | 78.1 | 74.8 | -3.3 |
| | 300 & More Employees | 97.9 | 97.5 | 99.2 | 99.0 | 98.7 | 98.4 | -0.3 |
| Employment Insurance Subscription | Subscribed | 59.6 | 60.8 | 64.7 | 63.3 | 62.7 | 59.8 | -2.9 |
| | Not Subscribed | 25.3 | 25.6 | 28.1 | 28.4 | 28.7 | 28.7 | 0 |
| | Exempted from Subscription | 98.1 | 97.3 | 98.2 | 97.1 | 97.1 | 94.8 | -2.3 |

Note: 1) Education and training participation ratio: percentage of those who received education and training for vocational skills development in the past year

2) Rate represents the ratio of experience by each groups

3) Exempted from employment insurance subscription: effective march 2010, civil servants, private school teachers and special post office employees are excluded from responding and their data is separately classified

4) Applied time series correction, based on registered census population (Statistics Korea: February 14, 2018 disclosure)

Source: Statistics Korea, Economically Active Population Survey, Additional Survey by Employment Type (Annual)

2) Wage and Salary Workers' Annual Education and Training Hours by Demographics

(Unit: Hour)

| Classification | | Aug. 2009 | Aug. 2010 | Aug. 2011 | Aug. 2012 | Aug. 2013 | |
|------------------------------|---------------------------------------|-----------|-----------|-----------|-----------|-----------|--------|
| | | | | | | | Growth |
| Wage and Salary Worker Total | | 37 | 37 | 35 | 36 | 34 | -2 |
| Gender | Male | 38 | 37 | 36 | 36 | 33 | -3 |
| | Female | 36 | 36 | 35 | 36 | 35 | -1 |
| Age | 15-29 | 34 | 34 | 35 | 38 | 38 | 0 |
| | 30s | 40 | 41 | 38 | 37 | 34 | -3 |
| | 40s | 38 | 38 | 36 | 37 | 35 | -2 |
| | 50s | 37 | 35 | 33 | 36 | 33 | -3 |
| | 60 & Over | 18 | 20 | 18 | 18 | 16 | -2 |
| Educational Attainment | Middle School Graduate & Under | 19 | 18 | 17 | 18 | 17 | -1 |
| | High School Graduate | 30 | 32 | 29 | 29 | 28 | -1 |
| | Junior College Graduate | 35 | 33 | 33 | 34 | 32 | -2 |
| | College or University Graduate & Over | 46 | 45 | 44 | 45 | 41 | -4 |
| Regular/Non-regular Worker | Regular Worker | 40 | 39 | 38 | 39 | 36 | -3 |
| | Non-regular Worker | 29 | 29 | 27 | 30 | 28 | -2 |

<Table continued>

| Classification | | Aug. 2009 | Aug. 2010 | Aug. 2011 | Aug. 2012 | Aug. 2013 | |
|-----------------------------------|----------------------------|-----------|-----------|-----------|-----------|-----------|--------|
| | | | | | | | Growth |
| Size of Establishment | 1-4 Employees | 31 | 39 | 28 | 30 | 32 | 2 |
| | 5-9 Employees | 30 | 31 | 29 | 29 | 27 | -2 |
| | 10-29 Employees | 33 | 33 | 31 | 32 | 31 | -1 |
| | 30-99 Employees | 40 | 38 | 36 | 40 | 38 | -2 |
| | 100-299 Employees | 34 | 33 | 34 | 35 | 32 | -3 |
| | 300 & More Employees | 43 | 42 | 44 | 42 | 36 | -6 |
| Employment Insurance Subscription | Subscribed | 48 | 31 | 29 | 30 | 28 | -2 |
| | Not Subscribed | - | 33 | 31 | 31 | 31 | 0 |
| | Exempted from Subscription | 31 | 58 | 61 | 65 | 62 | -3 |

Note: 1) Average training hours of those who received education and training in the past year

2) Exempted from employment insurance subscription: effective march 2010, civil servants, private school teachers and special post office employees are excluded from responding and their data is classified separately

3) Discontinued surveying 'total education and training hours received in the past year' from 2014

4) Applied time series correction, based on registered census population (Statistics Korea: February 14, 2018 disclosure)

Source: Statistics Korea, Economically Active Population Survey, Additional Survey by Employment Type(Annual)

2. Corporate Education and Training Implementation

1) Education and Training Cost Monthly Average per Employee by Company Size

(Unit: Thousand KRW, Percent)

| Classification | | Total Size | | | | | | | | | A/B ×100 |
|-------------------------------|------|-------------------------|---------|---------|---------|---------|------------------------|---------|---------|---------|-------------|
| | | Under 300 Employees (A) | | | | | Over 300 Employees (B) | | | | |
| | | 10-29 | 30-99 | 100-299 | 300-499 | 500-999 | 1,000 & More | | | | |
| Labor Cost Total (C) | 2010 | 4,021.5 | 3,121.5 | 2,860.3 | 3,133.2 | 3,342.9 | 5,168.7 | 3,880.3 | 4,264.9 | 5,713.2 | 60.4 |
| | 2011 | 4,328.5 | 3,380.6 | 3,090.2 | 3,401.6 | 3,636.2 | 5,563.1 | 4,264.4 | 4,318.4 | 6,177.1 | 60.8 |
| | 2012 | 4,487.3 | 3,569.7 | 3,199.7 | 3,609.5 | 3,879.9 | 5,640.1 | 4,304.5 | 4,268.7 | 6,261.5 | 63.3 |
| | 2013 | 4,549.8 | 3,623.1 | 3,296.9 | 3,662.4 | 3,880.4 | 5,706.8 | 4,252.0 | 4,693.5 | 6,254.3 | 63.5 |
| | 2014 | 4,669.6 | 3,683.2 | 3,393.6 | 3,703.3 | 3,948.3 | 5,907.1 | 4,396.2 | 4,728.8 | 6,532.1 | 62.4 |
| | 2015 | 4,781.7 | 3,870.8 | 3,579.1 | 3,857.9 | 4,197.7 | 5,993.0 | 4,501.8 | 5,037.5 | 6,533.0 | 64.6 |
| | 2016 | 4,934.2 | 3,940.4 | 3,887.7 | 3,821.9 | 4,140.9 | 6,251.4 | 4,422.6 | 4,979.8 | 7,042.6 | 63.0 |
| | 2017 | 5,023.4 | 4,078.9 | 3,953.8 | 4,040.3 | 4,254.3 | 6,222.0 | 4,450.1 | 4,922.4 | 6,986.8 | 65.6 |
| | 2018 | 5,195.5 | 4,279.4 | 4,104.1 | 4,259.2 | 4,490.6 | 6,316.3 | 4,636.0 | 5,116.4 | 6,988.1 | 67.8 |
| Education & Training Cost (D) | 2010 | 24.5 | 7.8 | 4.6 | 7.4 | 11.1 | 45.8 | 19.9 | 19.4 | 59.0 | 17.0 |
| | 2011 | 27.2 | 7.6 | 3.8 | 7.2 | 11.8 | 52.7 | 21.8 | 23.9 | 67.0 | 14.4 |
| | 2012 | 27.7 | 8.3 | 3.7 | 8.4 | 12.7 | 52.0 | 20.8 | 23.1 | 65.7 | 16.0 |
| | 2013 | 26.1 | 9.7 | 7.6 | 8.2 | 13.5 | 46.5 | 17.7 | 30.3 | 56.3 | 20.9 |
| | 2014 | 24.7 | 7.5 | 3.4 | 7.9 | 11.2 | 46.2 | 17.2 | 25.9 | 57.6 | 16.2 |
| | 2015 | 23.8 | 7.8 | 3.4 | 7.6 | 12.7 | 45.0 | 17.7 | 25.5 | 55.4 | 17.3 |
| | 2016 | 21.1 | 4.9 | 2.7 | 4.3 | 8.0 | 42.5 | 14.1 | 24.2 | 54.4 | 11.5 |
| | 2017 | 22.8 | 6.0 | 3.8 | 6.2 | 7.9 | 44.1 | 14.9 | 24.8 | 56.1 | 13.6 |
| | 2018 | 22.8 | 6.3 | 4.6 | 5.1 | 9.5 | 42.9 | 18.1 | 22.9 | 53.4 | 14.7 |

(Table Continued)

| Classification | Total Size | | | | | | | | | | A/B ×100 |
|-----------------------|-------------------------|-----------|-----------|-------------|-----|------------------------|-------------|-----------------|-----|-----|-------------|
| | Under 300 Employees (A) | | | | | Over 300 Employees (B) | | | | | |
| | | 10– 29 | 30– 99 | 100– 299 | | 300– 499 | 500– 999 | 1,000 & More | | | |
| Rate (D/C ×100) | 2010 | 0,6 | 0,2 | 0,2 | 0,2 | 0,3 | 0,9 | 0,5 | 0,5 | 1,0 | – |
| | 2011 | 0,6 | 0,2 | 0,1 | 0,2 | 0,3 | 0,9 | 0,5 | 0,6 | 1,1 | – |
| | 2012 | 0,6 | 0,2 | 0,1 | 0,2 | 0,3 | 0,9 | 0,5 | 0,5 | 1,0 | – |
| | 2013 | 0,6 | 0,3 | 0,2 | 0,2 | 0,3 | 0,8 | 0,4 | 0,6 | 0,9 | – |
| | 2014 | 0,5 | 0,2 | 0,1 | 0,2 | 0,3 | 0,8 | 0,4 | 0,5 | 0,9 | – |
| | 2015 | 0,5 | 0,2 | 0,1 | 0,2 | 0,3 | 0,8 | 0,4 | 0,5 | 0,8 | – |
| | 2016 | 0,4 | 0,1 | 0,1 | 0,1 | 0,2 | 0,7 | 0,3 | 0,5 | 0,8 | – |
| | 2017 | 0,5 | 0,1 | 0,1 | 0,2 | 0,2 | 0,7 | 0,3 | 0,5 | 0,8 | – |
| | 2018 | 0,4 | 0,1 | 0,1 | 0,1 | 0,2 | 0,7 | 0,4 | 0,4 | 0,8 | – |

Note: Fiscal year basis

Source: Ministry of Employment and Labor, Report on Enterprise Labor Costs Survey (Annual)

2) Total Education and Training Cost per Capita

(Unit: Ten Thousand KRW)

| Classification | | 2009 | 2011 | 2013 | 2015 | 2017 |
|-----------------------|-------------------------|------|------|------|------|------|
| Total | | 48.7 | 38.1 | 32.7 | 28.3 | 26.6 |
| Type of Business | Manufacturing | 42.4 | 32.1 | 26.6 | 23.9 | 21.7 |
| | Finance | 94.2 | 89.1 | 62.9 | 50.6 | 64.3 |
| | Services | 53.8 | 44.5 | 46.8 | 39.8 | 33.1 |
| Size of Establishment | 299 Employees or Less | 35.7 | 25.6 | 19.7 | 15.7 | 16.1 |
| | 300-999 Employees | 45.5 | 36.0 | 36.9 | 35.6 | 35.3 |
| | 1,000 Employees or More | 93.2 | 78.1 | 63.5 | 53.7 | 45.3 |

Note: 1) Education and training cost refers to total amount of investment on employees' vocational skills development. It includes employment insurance reimbursements, education and training costs not covered by employment insurance, and cost of purchase (replacement) on education and training facilities and equipment

2) Excludes unanswered and unsure

3) Survey results on establishments of 100 employees or more

Source: Korea Research Institute for Vocational Education and Training, Survey on Human Capital Corporate Panel 3rd (2009) – 7th (2017) data

3) Corporate Education and Training Implementation Ratio by Method

(Unit: Percent)

| Classification | 2009 | 2011 | 2013 | 2015 | 2017 |
|--|------|------|------|------|------|
| (1) Collective Education and Training Internal | 75.3 | 82.9 | 85.3 | 93.6 | 96.4 |
| (2) Collective Education and Training External | 67.4 | 76.5 | 72.4 | 71.1 | 68.3 |
| (3) E-learning | 58.1 | 57.5 | 55.6 | 53.7 | 59.1 |
| (4) Mail Training (Reading) | 42.7 | 40.2 | 29.4 | 24.7 | 19.4 |
| (5) Domestic Training | 28.8 | 22.5 | 20.9 | 22.9 | 20.2 |
| (6) Overseas Training | 27.1 | 23.5 | 18.6 | 17.4 | 16.6 |
| (7) Technical Training by External Provider | 15.4 | 15.1 | 15.0 | 13.0 | 11.1 |

Note: 1) Percentage of firms that responded yes to corresponding training, limited to official programs

2) Excludes unanswered and unsure

3) Survey results on establishments of 100 employees or more

Source: Korea Research Institute for Vocational Education and Training, Survey on Human Capital Corporate Panel 3rd (2009) – 7th (2017) data

4) Corporate Education and Training Implementation Ratio by Field
(Multiple Response Allowed)

(Unit: Percent)

| Classification | | 2009 | 2011 | 2013 |
|---|---------------|------|------|------|
| (1) Foreign Language | Total | 50,7 | 49,7 | 46,0 |
| | Manufacturing | 49,1 | 49,1 | 46,3 |
| | Finance | 75,7 | 64,9 | 53,3 |
| | Services | 46,2 | 46,2 | 42,7 |
| (2) Sales and Marketing | Total | 53,9 | 48,7 | 44,8 |
| | Manufacturing | 52,7 | 46,3 | 41,1 |
| | Finance | 78,4 | 83,8 | 80,0 |
| | Services | 48,4 | 44,1 | 47,2 |
| (3) Accounting, Finance, Administration, Secretarial | Total | 66,9 | 66,5 | 60,8 |
| | Manufacturing | 68,4 | 68,0 | 61,5 |
| | Finance | 70,3 | 73,0 | 63,3 |
| | Services | 60,2 | 58,1 | 57,3 |
| (4) Self-Development or Career | Total | 71,8 | 66,5 | 58,2 |
| | Manufacturing | 71,0 | 65,3 | 55,8 |
| | Finance | 86,5 | 83,8 | 83,3 |
| | Services | 68,8 | 64,5 | 59,6 |
| (5) Computer Engineering, Computer Use | Total | 37,5 | 31,7 | 26,8 |
| | Manufacturing | 31,9 | 26,8 | 24,1 |
| | Finance | 48,7 | 37,8 | 26,7 |
| | Services | 52,7 | 48,4 | 37,1 |
| (6) Engineering, Manufacturing, Construction | Total | 38,4 | 43,1 | 40,0 |
| | Manufacturing | 48,0 | 52,6 | 47,4 |
| | Finance | 2,7 | 0,0 | 0,0 |
| | Services | 18,3 | 22,6 | 24,7 |
| (7) Environmental Protection, Occupational Health, Safety | Total | 42,2 | 44,1 | 46,3 |
| | Manufacturing | 54,5 | 55,3 | 56,6 |
| | Finance | 10,8 | 10,8 | 3,3 |
| | Services | 10,8 | 12,9 | 20,2 |

Note: 1) Percentage of firms that responded yes to corresponding training, limited to official programs.

2) Survey results on establishments of 100 employees or more

3) These questions were asked only until the 5th survey (2013)

Source: Korea Research Institute for Vocational Education and Training. Survey on Human Capital Corporate Panel 3rd (2009) – 5th (2013) data

5) Corporate Education and Training Dedicated Department and Staff Ratio

(Unit: Percent)

| Classification | | 2009 | | 2011 | | 2013 | | 2015 | | 2017 | |
|-----------------------|-------------------------|------|-------|------|-------|------|-------|------|-------|------|-------|
| | | Team | Staff | Team | Staff | Team | Staff | Team | Staff | Team | Staff |
| Total | | 58.7 | 37.4 | 53.8 | 48.1 | 50.4 | 53.1 | 51.4 | 52.9 | 48.9 | 56.2 |
| Type of Business | Manufacturing | 58.2 | 37.9 | 50.9 | 48.1 | 48.7 | 54.1 | 48.7 | 50.8 | 47.3 | 54.9 |
| | Finance | 91.9 | 33.3 | 86.5 | 80.0 | 78.1 | 42.9 | 75.0 | 50.0 | 72.2 | 60.0 |
| | Services | 48.0 | 36.5 | 52.1 | 44.4 | 47.3 | 51.0 | 53.5 | 62.5 | 46.1 | 60.4 |
| Size of Establishment | 299 Employees or Less | 48.4 | 30.1 | 40.6 | 37.3 | 36.1 | 43.4 | 34.9 | 44.4 | 34.9 | 45.8 |
| | 300-999 Employees | 57.3 | 42.5 | 56.1 | 62.7 | 53.5 | 66.2 | 58.1 | 68.7 | 55.0 | 72.7 |
| | 1,000 Employees or More | 89.0 | 88.9 | 84.4 | 78.6 | 84.7 | 92.3 | 88.0 | 77.8 | 82.4 | 83.3 |

Note: 1) Percentage of establishments that responded yes to having dedicated team or staff (for those without dedicated team)

2) Survey results on establishments of 100 employees or more

Source: Korea Research Institute for Vocational Education and Training. Survey on Human Capital Corporate Panel 3rd (2009) – 7th (2017) data

6) HRD-Index Trends

(Unit: Point)

| Classification | | 2009 | | 2011 | | 2013 | | 2015 | | 2017 | |
|----------------|-------------------------|---------|--------------------|---------|--------------------|---------|--------------------|---------|--------------------|---------|--------------------|
| | | Average | Standard Deviation | Average | Standard Deviation | Average | Standard Deviation | Average | Standard Deviation | Average | Standard Deviation |
| Total | | 47.7 | 13,719 | 48.7 | 13,452 | 47.5 | 13,975 | 47.1 | 12,860 | 46.0 | 13,072 |
| By Size | 300 Employees or Less | 43.5 | 13,492 | 42.8 | 12,403 | 40.5 | 13,353 | 41.6 | 10,773 | 40.9 | 12,201 |
| | 300-999 Employees | 48.1 | 11,622 | 50.8 | 10,940 | 50.9 | 10,404 | 51.0 | 11,244 | 49.5 | 10,459 |
| | 1,000 Employees or More | 60.9 | 10,714 | 61.0 | 11,229 | 58.8 | 11,536 | 59.0 | 13,137 | 58.8 | 12,359 |
| By Industry | Manufacturing | 46.8 | 13,081 | 47.8 | 12,407 | 47.0 | 12,923 | 47.1 | 12,147 | 45.7 | 12,658 |
| | Finance | 62.8 | 9,057 | 63.7 | 10,438 | 59.1 | 11,630 | 52.0 | 15,389 | 53.3 | 14,665 |
| | Services | 46.6 | 14,461 | 47.7 | 15,037 | 45.9 | 16,356 | 45.6 | 14,805 | 45.4 | 13,689 |

Note: 1) Survey results on establishments of 100 employees or more

2) Used data from Jaeho Chung, et al. (2014) for data until 2013, from 2015 used each survey data for additional analysis

Source: Korea Research Institute for Vocational Education and Training, Survey on Human Capital Corporate Panel 3rd (2009) – 7th (2017) data

Jaeho Chung, et al. (2014), HRD-Index (Human Resources Development Index) in Korea, Korea Research Institute for Vocational Education and Training, HRD-Index (I)

3. Government Program on Vocational Skills Development

1) Vocational Skills Development Program Performance Results and Budget by Year

(Unit: Thousand Person, Hundred Million KRW)

| Training Name | 2012 | | 2013 | | 2014 | | 2015 | |
|--|--------|---------|--------|---------|--------|---------|---------|---------|
| | Person | Expense | Person | Expense | Person | Expense | Person | Expense |
| Total | 3,848 | 10,145 | 4,102 | 11,817 | 3,774 | 11,527 | 3,205.4 | 13,120 |
| □ Incumbent Training | 3,477 | 5,479 | 3,616 | 6,385 | 3,453 | 6,426 | 2,895 | 6,681 |
| ○ Employer Vocational Skills Development Support (Excludes Paid Training Leave) | 3,180 | 3,126 | 3,284 | 3,213 | 3,102 | 3,498 | 2,496 | 3,242 |
| ○ Paid Training Leave | 11 | 100 | 10 | 95 | 10 | 98 | 10 | 93 |
| ○ Employee Skills Development Support ³⁾ | - | - | - | - | 287 | 818 | 330 | 880 |
| ○ Incumbent Vocational Skills Improvement Subsidy (Tuition Subsidy) | 165 | 305 | 212 | 542 | 209 | 577 | 25 | 70 |
| ○ Incumbent My Work Learning Card System (Employee Skills Development Card System) | 65 | 188 | 51 | 180 | 34 | 124 | 3 | 11 |
| ○ Employee Personal Support | - | - | - | - | 44 | 117 | 302 | 799 |
| ○ SME Core Vocational Skills Improvement Support | 38 | 153 | 43 | 206 | 54 | 244 | 59 | 233 |
| ○ National HRD Consortium | - | 865 | - | 1,462 | - | 1,656 | - | 2,111 |
| ○ Tuition Loan | 18 | 692 | 16 | 624 | - | - | - | - |
| ○ Facility, Equipment Loan | - | 50 | - | 63 | - | 112 | - | 122 |
| □ Unemployed Training | 338 | 4,018 | 451 | 4,710 | 284 | 4,302 | 272.4 | 5,579 |
| ○ Unemployed Training: Experienced Worker | 227 | 1,683 | 313 | 2,351 | 191 | 1,899 | 158 | 1,694 |
| ○ Unemployed Training: New Worker | 81 | 647 | 99 | 806 | 51 | 509 | 40 | 546 |
| ○ Farming and Fishing Villages Unemployed Vocational Training | 1 | 11 | 1 | 11 | 1 | 11 | 0.4 | 2 |
| ○ National Key Strategic Industry Occupation Training | 29 | 1,677 | 38 | 1,542 | 41 | 1,883 | 74 | 3,337 |

(Table Continued)

| Training Name | 2012 | | 2013 | | 2014 | | 2015 | |
|---|--------|---------|--------|---------|--------|---------|--------|---------|
| | Person | Expense | Person | Expense | Person | Expense | Person | Expense |
| □ Public Training | 33 | 648 | 35 | 722 | 37 | 799 | 38 | 860 |
| ○ Technician, etc. Training | 23 | 239 | 24 | 285 | 26 | 332 | 27 | 382 |
| ○ Craftsman Training | 6 | 279 | 7 | 296 | 7 | 325 | 7 | 323 |
| ○ Vocational Training Faculty Members and HRD Staff Development | 4 | 130 | 4 | 141 | 4 | 142 | 4 | 155 |

| Training Title | 2016 | | 2017 | | 2018 | |
|--|---------|---------|---------|---------|---------|---------|
| | Person | Expense | Person | Expense | Person | Expense |
| Total | 3,539.4 | 15,978 | 4,044.4 | 16,445 | 5,227.3 | 17,946 |
| □ Incumbent Training | 3,228 | 8,693 | 3,720 | 9,035 | 4,916 | 9,262 |
| ○ Employer Vocational Skills Development Support (Excludes Paid Training Leave) | 2,867 | 4,940 | 3,439 | 5,623 | 4,583 | 5,660 |
| ○ Paid Training Leave | 9 | 100 | 19 | 149 | 20 | 193 |
| ○ Employee Skills Development Support ³⁾ | 292 | 795 | 262 | 820 | 311 | 951 |
| ○ Incumbent Vocational Skills Improvement Subsidy (Tuition Subsidy) | - | - | - | - | - | - |
| ○ Incumbent My Work Learning Card System (Employee Skills Development Card System) | - | - | - | - | - | - |
| ○ Employee Personal Support | - | - | - | - | - | - |
| ○ SME Core Vocational Skills Improvement Support | 60 | 227 | - | - | - | - |
| ○ National HRD Consortium | - | 2,520 | - | 2,312 | - | 2,365 |
| ○ Tuition Loan | - | - | - | - | - | - |
| ○ Skills Development Facilities and Equipment Loan | - | 111 | - | 131 | - | 87 |
| ○ Competency Development Support for the Employment Insurance Unapplied | - | - | - | - | 2 | 6 |

(Table Continued)

| Training Title | 2016 | | 2017 | | 2018 | |
|---|--------|---------|--------|---------|--------|---------|
| | Person | Expense | Person | Expense | Person | Expense |
| □ Unemployed Training | 272,4 | 6,395 | 291,4 | 6,538 | 277,3 | 7,753 |
| ○ Unemployed Training: Experienced Worker | 177 | 1,992 | 182 | 1,796 | 174 | 2,372 |
| ○ Unemployed Training: New Worker | 36 | 619 | 38 | 640 | 37 | 723 |
| ○ Farming and Fishing Villages Unemployed Vocational Training | 0,4 | 3 | 0,4 | 2 | 0,3 | 2 |
| ○ National Key Strategic Industry Occupation Training | 59 | 3,776 | 71 | 4,100 | 66 | 4,656 |
| □ Public Training | 39 | 890 | 33 | 872 | 34 | 931 |
| ○ Technician, etc, Training | 28 | 389 | 23 | 355 | 23 | 355 |
| ○ Craftsman Training | 7 | 336 | 6 | 301 | 6 | 334 |
| ○ Vocational Training Faculty Members and HRD Staff Development | 4 | 165 | 4 | 216 | 5 | 242 |

Note: 1) Employee Skills Development Support is a program that combines previous 'Employee Vocational Skills Improvement Subsidy' and 'Incumbent My Work Learning Card System' programs (April 15, 2014). As a result, figures in Employee Skills Development Support is a sum of previous Vocational Skills Improvement Subsidy+Incumbent My Work Learning Card System and new incumbent skills development support figures

2) Employer Vocational Skills Development Support and Paid Training Leave includes SMEs Consortiums (excluding key industries) and regional industry tailored program (as EIS DW, statistics modeling, data were organized, Employer Vocational Skills Development Support includes Work Study Dual System and Employment Didimdol status)

3) Number of unemployed trainee is based on yearly numbers from training start date, expense excludes other operation costs

4) Technician, etc. training (technician, Craftsman, major intensive course (2012), baby boomer (2013), female special course (2014), high tech course (2018) total), Craftsman upgrade training, vocational training faculty and HRD staff upgrade training budget figures simply indicates training cost

Data: Korea Employment Information Service, Employment Information System

Source: Ministry of Employment and Labor (2017, 2018, 2019). Vocational Skills Development Program Status

2) Incumbent Skills Development Training Performance Results by Year

(Unit: Number of Establishments, Number of Cases, Person, Million KRW)

| Classification | Employer Training (Excludes Paid Leave) | Paid Leave Training | Incumbents Skills Development Support | | SME Core Vocational Skills Improvement Support | National HRD Consortium | Employee Tuition Loan | Facility, Equipment Loan | Competency Development Support for the Employment Insurance Unapplied | |
|----------------|---|---------------------|---|--|--|-------------------------|-----------------------|--------------------------|---|---|
| | | | Incumbent Vocational Skills Improvement Subsidy | Incumbent My Work Learning Card System | | | | | | |
| 2011 | Establishments | 207,738 | 3,607 | - | - | - | 134 | - | 13 | - |
| | No. of Training | 3,004,691 | 11,257 | 162,992 | 129,451 | 32,727 | 251,895 | 21,507 | - | - |
| | Subsidies | 284,890 | 11,505 | 28,635 | 31,144 | 14,242 | 122,861 | 79,786 | 7,045 | - |
| 2012 | Establishments | 218,977 | 4,308 | - | - | - | 158 | - | 8 | - |
| | No. of Training | 3,179,609 | 10,791 | 164,963 | 64,535 | 37,833 | 271,673 | 17,720 | - | - |
| | Subsidies | 312,552 | 9,974 | 30,486 | 18,785 | 15,261 | 86,510 | 69,166 | 5,000 | - |
| 2013 | Establishments | 299,275 | 4,517 | - | - | - | 168 | - | 11 | - |
| | No. of Training | 3,284,401 | 10,463 | 212,119 | 50,576 | 43,362 | 223,186 | 15,550 | - | - |
| | Subsidies | 321,304 | 9,472 | 54,188 | 17,959 | 20,556 | 146,183 | 62,374 | 6,262 | - |
| 2014 | Establishments | 286,580 | 5,007 | - | | - | 180 | Program Closed | 12 | - |
| | No. of Training | 3,101,972 | 10,340 | 287,596 | | 54,402 | 209,117 | | - | - |
| | Subsidies | 349,786 | 9,768 | 81,821 | | 24,445 | 165,633 | | 11,196 | - |
| 2015 | Establishments | 217,427 | 4,039 | - | | - | 212 | Program Closed | 29 | - |
| | No. of Training | 2,495,792 | 10,057 | 330,293 | | 58,939 | 210,338 | | - | - |
| | Subsidies | 324,156 | 9,345 | 87,976 | | 23,276 | 211,085 | | 12,201 | - |

(Table Continued)

| Classification | Employer Training (Excludes Paid Leave) | Paid Leave Training | Incumbents Skills Development Support | | SME Core Vocational Skills Improvement Support | National HRD Consortium | Employee Tuition Loan | Facility, Equipment Loan | Competency Development Support for the Employment Insurance Unapplied |
|----------------|---|---------------------|---|--|--|-------------------------|-----------------------|--------------------------|---|
| | | | Incumbent Vocational Skills Improvement Subsidy | Incumbent My Work Learning Card System | | | | | |
| 2016 | Establishments | 125,922 | 3,215 | - | - | 213 | | 14 | - |
| | No. of Training | 2,866,904 | 9,499 | 291,723 | 60,310 | 251,090 | Program Closed | - | - |
| | Subsidies | 494,026 | 9,998 | 79,457 | 22,688 | 252,038 | | 11,062 | - |
| 2017 | Establishments | 153,654 | 5,451 | - | | 214 | | 20 | - |
| | No. of Training | 3,469,373 | 18,861 | 261,934 | Program Closed | 261,730 | Program Closed | - | - |
| | Subsidies | 562,345 | 14,891 | 82,015 | | 231,174 | | 13,075 | - |
| 2018 | Establishments | 157,161 | 5,285 | - | | 215 | | 17 | - |
| | No. of Training | 4,583,150 | 19,676 | 311,401 | Program Closed | 252,159 | Program Closed | - | 1,541 |
| | Subsidies | 566,038 | 19,272 | 95,137 | | 236,492 | | 8,670 | 629 |

- Note: 1) Employer vocational skills development support and paid training leave includes SMEs consortiums (excluding key industries), and regional industry tailored program (from 2016 includes Work Study Dual System)
- 2) Number of establishments providing employer training, paid leave training in 2016 is based on establishments with costs occurred
- 3) In 'national HRD consortium,' establishments indicate operating institutions, 'number of training' indicates trainees who completed the course
- 4) In 'employee tuition loan,' number of training refers to confirmed borrowers, subsidy refers to loan amount
- 5) In 'facility loan,' establishments indicate loan providers, subsidy indicates loan amount
- 6) In 'competency development support for the employment insurance unapplied' number of training indicates number of completed trainees

Source: Ministry of Employment and Labor (2017, 2018, 2019). Vocational Skills Development Program Status

3) Employer-Supported Incumbent Vocational Skills Development Training Participation by Size

(Unit: Number, Percent)

| Size of Establishment | 2015 | | 2016 | | 2017 | | 2018 | |
|-------------------------|-----------|---------|-----------|---------|-----------|---------|-----------|---------|
| | Trainee | Ratio | Trainee | Ratio | Trainee | Ratio | Trainee | Ratio |
| Total | 2,505,849 | (100.0) | 2,881,225 | (100.0) | 3,458,234 | (100.0) | 4,602,826 | (100.0) |
| Less than 5 Employees | 70,546 | (2.8) | 74,382 | (2.6) | 91,544 | (2.6) | 128,351 | (2.8) |
| 5-9 Employees | 77,074 | (3.1) | 85,525 | (3.0) | 128,461 | (3.7) | 255,153 | (5.5) |
| 10-29 Employees | 215,678 | (8.6) | 224,320 | (7.8) | 331,112 | (9.6) | 585,169 | (12.7) |
| 30-49 Employees | 137,396 | (5.5) | 152,449 | (5.3) | 206,139 | (6.0) | 298,833 | (6.5) |
| 50-69 Employees | 97,955 | (3.9) | 143,202 | (5.0) | 176,295 | (5.1) | 205,903 | (4.5) |
| 70-99 Employees | 123,036 | (4.9) | 135,865 | (4.7) | 195,599 | (5.7) | 263,275 | (5.7) |
| 100-149 Employees | 140,513 | (5.6) | 148,447 | (5.2) | 227,463 | (6.6) | 324,083 | (7.0) |
| 150-299 Employees | 312,470 | (12.5) | 337,198 | (11.7) | 445,758 | (12.9) | 581,478 | (12.6) |
| 300-499 Employees | 167,171 | (6.7) | 201,685 | (7.0) | 280,581 | (8.1) | 366,996 | (8.0) |
| 500-999 Employees | 246,080 | (9.8) | 284,115 | (9.9) | 319,829 | (9.2) | 427,658 | (9.3) |
| 1,000 Employees or More | 917,737 | (36.6) | 1,094,036 | (38.0) | 1,055,443 | (30.5) | 1,165,922 | (25.3) |

Note: 1) Employer support includes paid training leave

2) Trainees are annual participants counted on applications basis, excludes overlaps based on training expense and includes overlaps based on training course sessions

3) Excludes establishments that cannot be categorized by size

Data: Korea Employment Information Service, HRD-Net Data

Source: Ministry of Employment and Labor · Korea Employment Information Service, Yearly Statistics of Human Resource Development(Annual)

4) Employer-Supported Incumbent Vocational Skills Development Training Participation by Demographics

(Unit: Number, Percent)

| Classification | | 2015 | | 2016 | | 2017 | | 2018 | |
|----------------|----------------|-----------|---------|-----------|---------|-----------|---------|-----------|---------|
| | | Trainee | Ratio | Trainee | Ratio | Trainee | Ratio | Trainee | Ratio |
| Total | | 2,505,849 | (100.0) | 2,881,225 | (100.0) | 3,458,234 | (100.0) | 4,602,826 | (100.0) |
| Gender | Male | 1,639,779 | (65.4) | 1,886,204 | (65.5) | 2,198,579 | (63.6) | 2,844,244 | (61.8) |
| | Female | 866,070 | (34.6) | 994,997 | (34.5) | 1,259,654 | (36.4) | 1,758,577 | (38.2) |
| Age | Age 19 & Under | 33,646 | (1.3) | 36,042 | (1.3) | 32,422 | (0.9) | 38,432 | (0.8) |
| | 20-29 | 660,109 | (26.3) | 797,705 | (27.7) | 85,949 | (24.8) | 1,156,001 | (25.1) |
| | 30-39 | 868,922 | (34.7) | 974,651 | (33.8) | 1,164,582 | (33.7) | 1,471,988 | (32.0) |
| | 40-49 | 596,754 | (23.8) | 678,936 | (23.6) | 863,243 | (25.0) | 1,128,952 | (24.5) |
| | 50-59 | 274,374 | (10.9) | 317,608 | (11.0) | 424,590 | (12.3) | 593,374 | (12.9) |
| | 60 and Over | 72,024 | (2.9) | 76,251 | (2.6) | 116,445 | (3.4) | 214,074 | (4.7) |

Note: 1) Employer support includes paid training leave

2) Trainees are annual participants counted on applications basis, excludes overlaps based on training expense and includes overlaps based on training course sessions

3) Excludes establishments that cannot be categorized by gender, age

Data: Korea Employment Information Service, HRD-Net Data

Source: Ministry of Employment and Labor · Korea Employment Information Service, Yearly Statistics of Human Resource Development (Annual)

5) Employer-Supported Incumbent Vocational Skills Development Training Participation by Industry and Size

(Unit: Number, Percent)

| Classification | Total | | Less than 300 Employees | | 300 Employees or More | |
|---|-----------|---------|-------------------------|---------|-----------------------|---------|
| | Trainee | Ratio | Trainee | Ratio | Trainee | Ratio |
| Total | 4,602,826 | (100.0) | 2,642,245 | (100.0) | 1,960,576 | (100.0) |
| Agriculture, Forestry and Fishing | 9,925 | (0.2) | 9,923 | (0.4) | 2 | (0.0) |
| Mining and Quarrying | 929 | (0.0) | 912 | (0.0) | 17 | (0.0) |
| Manufacturing | 1,236,313 | (26.9) | 663,033 | (25.1) | 573,280 | (29.2) |
| Electricity, Gas, Steam and Air Conditioning Supply | 45,748 | (1.0) | 17,005 | (0.6) | 28,743 | (1.5) |
| Water Supply; Sewage, Waste Management, Materials Recovery | 21,801 | (0.5) | 12,482 | (0.5) | 9,319 | (0.5) |
| Construction | 176,293 | (3.8) | 134,510 | (5.1) | 41,783 | (2.1) |
| Wholesale and Retail Trade | 394,502 | (8.6) | 267,150 | (10.1) | 127,352 | (6.5) |
| Transportation and Storage | 135,995 | (3.0) | 53,888 | (2.0) | 82,107 | (4.2) |
| Accommodation and Food Service Activities | 69,672 | (1.5) | 42,345 | (1.6) | 27,327 | (1.4) |
| Information Service Activities | 253,075 | (5.5) | 116,194 | (4.4) | 136,881 | (7.0) |
| Financial and Insurance Activities | 379,640 | (8.2) | 200,364 | (7.6) | 179,276 | (9.1) |
| Real Estate Activities | 103,011 | (2.2) | 66,652 | (2.5) | 36,359 | (1.9) |
| Professional, Scientific and Technical Activities | 214,551 | (4.7) | 148,731 | (5.6) | 65,820 | (3.4) |
| Business Facilities Management and Business Support Services; Rental and Leasing Activities | 490,557 | (10.7) | 98,387 | (3.7) | 392,170 | (20.0) |
| Public Administration and Defence; Compulsory Social Security | 13,735 | (0.3) | 5,933 | (0.2) | 7,802 | (0.4) |
| Education | 59,580 | (1.3) | 54,987 | (2.1) | 4,593 | (0.2) |
| Human Health and Social Work Activities | 895,507 | (19.5) | 672,479 | (25.5) | 223,028 | (11.4) |
| Arts, Sports and Recreation Related Services | 29,198 | (0.6) | 19,889 | (0.8) | 9,309 | (0.5) |
| Membership Organizations, Repair and Other Personal Services | 72,747 | (1.6) | 57,339 | (2.2) | 15,408 | (0.8) |
| Activities of Households as Employers; Undifferentiated Goods-and services-producing Activities of Households for Own Use | 0 | (0.0) | 0 | (0.0) | 0 | (0.0) |
| Activities of Extraterritorial Organizations and Bodies | 42 | (0.0) | 42 | (0.0) | 0 | (0.0) |

Note: 1) Employer support includes paid training leave

2) Trainees are annual participants counted on applications basis, excludes overlaps based on training expense and includes overlaps based on training course sessions

3) Korean Standard Industrial Classification 10th codes applied

4) Excludes establishments that cannot be categorized by industry and size

Data: Korea Employment Information Service, HRD-Net Data

Source: Ministry of Employment and Labor · Korea Employment Information Service(2019). Yearly Statistics of Human Resource Development(2018, Annual)

6) Unemployed Training Participants by Year

(Unit: Person)

| Training Type | Total | Unemployed Training: Experienced Worker | Unemployed Training: New Worker | National Key Strategic Industry Occupation Training | Regional Unemployed (Vocational) Training |
|---------------|---------|---|---------------------------------|---|---|
| 2012 | 336,858 | 226,617 | 80,669 | 28,879 | 693 |
| 2013 | 450,352 | 312,793 | 98,729 | 38,069 | 761 |
| 2014 | 284,438 | 191,043 | 51,477 | 41,142 | 776 |
| 2015 | 272,295 | 157,847 | 39,793 | 74,207 | 448 |
| 2016 | 272,793 | 177,276 | 36,133 | 58,947 | 437 |
| 2017 | 291,066 | 181,655 | 37,589 | 71,450 | 372 |
| 2018 | 277,392 | 174,161 | 37,285 | 65,663 | 283 |

Note: 1) Each year end basis

2) 'Regional unemployed training' until 2014 included Farming and Fishing Villages Regional Unemployed Vocational Training + Local Autonomous Vocational Skills Development Support (Agriculture Speciality + Metropolitan Speciality, Metropolitan and Regional Development Special Accounts/Funds) and from 2015 includes Local Autonomous Vocational Skills Development Support (Regional Speciality, Regional Development Special Accounts/Funds)

3) Data calculation standards: start date of training, annual trainees basis

Source: Ministry of Employment and Labor · Korea Employment Information Service. Yearly Statistics of Human Resource Development (Annual)

7) National Key Strategic Industry Occupation Training Participation by Demographics

(Unit: Person, Percent)

| Classification | Gender | | Age | | | | | | Educational Attainment | | | | | Total |
|--|--------|--------|----------------|-------|-------|-------|-------|-----------|--------------------------------|----------------------|-------------------------|---------------------|------------------------|-------|
| | Male | Female | Age 19 & Under | 20-29 | 30-39 | 40-49 | 50-59 | 60 & Over | Middle School Graduate & Under | High School Graduate | Junior College Graduate | University Graduate | Graduate School & Over | |
| Business, Accounting, and Administration | 4,0 | 9,0 | 3,2 | 6,0 | 8,0 | 6,4 | 1,6 | 1,0 | 2,7 | 4,3 | 5,1 | 8,5 | 10,0 | 5,6 |
| Health and Medical | 0,0 | 0,3 | 0,0 | 0,1 | 0,3 | 0,4 | 0,2 | 0,0 | 0,0 | 0,1 | 0,1 | 0,2 | 0,4 | 0,1 |
| Culture, Art, Design and Media | 13,4 | 35,8 | 25,2 | 23,0 | 17,5 | 10,9 | 4,4 | 1,7 | 20,8 | 19,7 | 24,5 | 18,7 | 10,6 | 20,3 |
| Driving, Transport | 0,6 | 0,2 | 0,9 | 0,2 | 0,6 | 1,3 | 1,3 | 0,7 | 1,1 | 0,3 | 0,4 | 0,5 | 0,5 | 0,4 |
| Beauty, Accommodation, Travel, Leisure, and Sports | 0,3 | 1,3 | 1,4 | 0,6 | 0,4 | 0,2 | 0,1 | 0,1 | 1,4 | 0,5 | 0,5 | 0,6 | 0,4 | 0,6 |
| Construction | 10,3 | 5,7 | 7,1 | 4,4 | 7,3 | 16,8 | 34,5 | 54,5 | 12,5 | 8,8 | 7,2 | 8,7 | 15,8 | 8,9 |
| Machinery | 18,9 | 6,1 | 29,2 | 12,2 | 16,6 | 16,4 | 13,5 | 8,7 | 30,6 | 14,9 | 15,3 | 9,8 | 9,1 | 14,9 |
| Materials | 4,8 | 0,1 | 3,5 | 2,2 | 4,3 | 8,2 | 8,3 | 5,3 | 5,2 | 4,5 | 3,0 | 1,4 | 1,2 | 3,4 |
| Textile and Clothing | 0,6 | 4,4 | 2,5 | 0,9 | 2,2 | 5,7 | 5,1 | 2,5 | 3,8 | 1,6 | 1,7 | 1,4 | 1,3 | 1,8 |
| Electricity and Electronics | 14,9 | 3,4 | 8,4 | 10,8 | 11,6 | 14,4 | 18,8 | 15,9 | 8,5 | 12,8 | 9,5 | 11,6 | 10,4 | 11,4 |
| Information and Communication | 27,1 | 23,5 | 14,0 | 33,4 | 23,6 | 9,0 | 2,8 | 1,0 | 9,2 | 26,2 | 26,0 | 31,1 | 30,6 | 26,0 |
| Print, Wood, Furniture, and Crafts | 1,8 | 8,6 | 2,4 | 4,0 | 4,9 | 5,6 | 2,7 | 2,1 | 1,5 | 3,5 | 4,9 | 4,5 | 4,1 | 3,9 |

(Table continued)

| Classification | Gender | | Age | | | | | | Educational Attainment | | | | | Total |
|------------------------------------|---------------|---------------|----------------|---------------|--------------|--------------|--------------|--------------|--------------------------------|----------------------|-------------------------|---------------------|------------------------|---------------|
| | Male | Female | Age 19 & Under | 20-29 | 30-39 | 40-49 | 50-59 | 60 & Over | Middle School Graduate & Under | High School Graduate | Junior College Graduate | University Graduate | Graduate School & Over | |
| Environment, Energy, and Safety | 3,2 | 1,6 | 2,2 | 2,2 | 2,7 | 4,8 | 6,6 | 6,3 | 2,7 | 2,8 | 1,9 | 3,1 | 5,6 | 2,7 |
| Agriculture, Forestry, and Fishery | 0,0 | 0,0 | 0,0 | 0,0 | 0,0 | 0,1 | 0,1 | 0,1 | 0,0 | 0,0 | 0,0 | 0,0 | 0,0 | 0,0 |
| Total | 45,505 | 20,158 | 7,764 | 40,731 | 8,237 | 3,639 | 2,998 | 2,294 | 6,187 | 27,516 | 12,571 | 18,389 | 971 | 65,663 |

- Note: 1) Participants include duplicate trainees(annual participants) who participated in training courses from training start date
 2) NCS-based occupational classification
 3) Korea Employment Information Service, result of HRD-Net raw data analysis
 4) Analysis targets unemployed vocational trainees who participated in National Key Strategic Industry Occupation Training between January 1, 2018 to December 31, 2018 (training start date falling between Jan. 1-Dec. 31, 2018)

Source: Ministry of Employment and Labor • Korea Employment Information Service(2019). 2018 Yearly Statistics of Human Resource Development

8) National Key Strategic Industry Occupation Training: Employment Rate by Demographics

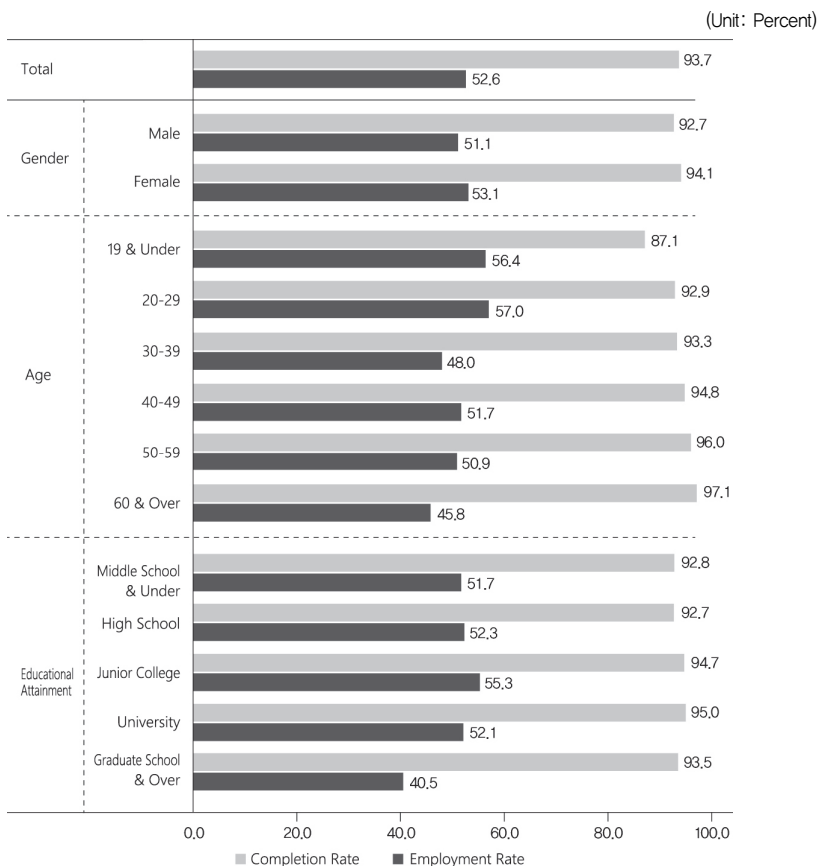
(Unit: Percent)

| Classification | Gender | | Age | | | | | | Educational Attainment | | | | | Total |
|--|--------|--------|----------------|-------|-------|-------|-------|-----------|--------------------------------|----------------------|-------------------------|---------------------|------------------------|-------|
| | Male | Female | Age 19 & Under | 20-29 | 30-39 | 40-49 | 50-59 | 60 & Over | Middle School Graduate & Under | High School Graduate | Junior College Graduate | University Graduate | Graduate School & Over | |
| Business, Accounting, and Administration | 62.7 | 63.6 | 55.4 | 65.9 | 59.8 | 56.5 | 45.5 | 23.8 | 49.1 | 61.0 | 66.8 | 64.5 | 60.5 | 63.1 |
| Health and Medical | 43.5 | 71.4 | 0.0 | 64.9 | 69.2 | 52.6 | 75.0 | 0.0 | - | 64.0 | 77.8 | 58.5 | 50.0 | 64.0 |
| Culture, Art, Design and Media | 57.4 | 63.5 | 53.0 | 63.8 | 55.2 | 51.6 | 40.7 | 45.7 | 54.9 | 58.0 | 64.8 | 62.9 | 61.3 | 60.8 |
| Driving, Transport | 61.9 | 50.0 | 100.0 | 66.7 | 56.5 | 61.1 | 52.4 | 58.3 | 0.0 | 58.5 | 76.0 | 57.1 | 0.0 | 60.4 |
| Beauty, Accommodation, Travel, Leisure, and Sports | 64.6 | 63.9 | 75.6 | 63.2 | 63.6 | 33.3 | 33.3 | 40.0 | 76.5 | 54.6 | 67.3 | 65.1 | 16.7 | 64.2 |
| Construction | 58.3 | 63.1 | 68.9 | 72.1 | 56.5 | 51.2 | 54.4 | 48.9 | 59.7 | 59.0 | 61.9 | 59.3 | 45.3 | 59.2 |
| Machinery | 71.7 | 73.8 | 50.7 | 79.8 | 80.3 | 68.7 | 69.7 | 56.7 | 51.0 | 73.6 | 78.7 | 81.2 | 73.2 | 72.0 |
| Materials | 71.4 | 61.9 | 60.9 | 76.8 | 75.7 | 72.0 | 65.7 | 49.3 | 61.9 | 70.6 | 76.1 | 78.9 | 60.0 | 71.3 |
| Textile and Clothing | 55.4 | 56.5 | 53.8 | 60.3 | 53.0 | 56.8 | 55.4 | 50.8 | 52.1 | 60.6 | 54.7 | 53.6 | 53.3 | 56.2 |
| Electricity and Electronics | 65.6 | 48.0 | 57.4 | 63.0 | 71.4 | 65.7 | 67.6 | 59.1 | 62.3 | 61.4 | 72.1 | 63.9 | 62.4 | 64.0 |
| Information and Communication | 69.0 | 72.1 | 50.3 | 72.5 | 65.5 | 49.4 | 44.7 | 14.3 | 56.7 | 67.5 | 73.7 | 71.9 | 68.6 | 69.8 |
| Print, Wood, Furniture, and Crafts | 65.9 | 67.1 | 64.2 | 71.3 | 62.2 | 52.3 | 48.6 | 51.2 | 73.0 | 62.7 | 69.1 | 69.6 | 43.6 | 66.7 |
| Environment, Energy, and Safety | 65.7 | 54.3 | 56.0 | 65.9 | 72.2 | 62.6 | 62.6 | 49.3 | 53.0 | 62.4 | 69.5 | 65.8 | 61.5 | 63.7 |

- Note: 1) Employment Rate = Trainees employed after completion ÷ completed trainees × 100
 * In employment rate calculation, number of completed trainees and employed are counted as of training completion date
- 2) NCS-based occupational classification, Sales and agriculture, forestry and fisheries are excluded from the analysis as the total number of employed is less than 10.
 - 3) Educational attainment unable to classify are excluded
 - 4) Korea Employment Information Service, result of HRD-Net raw data analysis
 - 5) Analysis targets unemployed vocational trainees who participated in National Key Strategic Industry Occupation Training between January 1, 2018 to December 31, 2018 (training start date falling between Jan. 1-Dec. 31, 2018)

Source: Ministry of Employment and Labor · Korea Employment Information Service (2019), 2018 Yearly Statistics of Human Resource Development

9) 2018 My Work Learning Card System Completion and Employment Rate by Demographics



Note: 1) Trainees that ends training on a date that falls between January 1, 2018 and December 31, 2018
 2) Completion rate = number of trainees completed / (number of trainees participated - number trainees early employed) × 100
 * Completed trainee: trainees of standard completion + trainees of more than 80% completion + trainees of more than 70% and less than 80% completion
 * Trainees participated and completed are yearly figures on training completion date basis
 3) Employment rate = employed after training completion ÷ completed trainees × 100
 * Trainees completed and employed are net figures as of training completion date
 4) Educational attainment unable to classify are excluded
 5) Raw Data: Korea Employment Information Service, HRD-Net data
 Source: Ministry of Employment and Labor · Korea Employment Information Service(2019), 2018 Yearly Statistics of Human Resource Development

10) Vocational Skills Development Unemployed Account System Eligible Training Course Evaluation Results

(Unit: Number, Percent)

| Classification | Evaluations (A) | Results | | | | | |
|----------------|-----------------|--------------------------------|--------------|--|------------------------|----------------|--------|
| | | Eligibility Evaluation (B=C+D) | Eligible (C) | Eligible on Conditions ¹⁾ (D) | Eligibility Rate (B/A) | Ineligible (F) | |
| 2008 | 866 | 529 | 508 | 21 | 61,1 | 337 | |
| 2009 | 1H | 9,456 | 4,280 | 3,465 | 815 | 45,3 | 5,176 |
| | 2H | 26,435 | 13,668 | 11,838 | 1,830 | 51,7 | 12,767 |
| 2010 | 21,827 | 7,645 | 5,656 | 1,989 | 35,0 | 14,182 | |
| 2011 | 14,654 | 6,810 | 4,526 | 2,284 | 46,5 | 7,844 | |
| 2012 | 9,598 | 5,008 | 611 | 4,396 | 52,2 | 4,591 | |
| 2013 | 12,667 | 4,772 | 4,179 | 593 | 37,7 | 7,895 | |
| 2014 | 12,445 | 7,474 | 7,396 | 78 | 60,1 | 2,486 | |
| 2015 | 1H | 4,457 | 1,004 | 941 | 63 | 22,5 | 3,453 |
| | 2H | 10,233 | 4,659 | 4,335 | 324 | 45,5 | 5,574 |
| 2016 | 1H | 5,860 | 2,839 | 2,415 | 424 | 48,4 | 3,021 |
| | 2H | 6,921 | 4,520 | 3,871 | 649 | 65,3 | 2,401 |
| 2017 | 1H | 4,663 | 1,750 | 1,508 | 242 | 37,5 | 2,913 |
| | 2H | 5,778 | 4,106 | 3,558 | 548 | 71,1 | 1,672 |
| 2018 | 1H | 4,231 | 2,614 | 2,311 | 303 | 61,8 | 1,617 |
| | 2H | 5,395 | 3,813 | 3,158 | 655 | 70,7 | 1,582 |
| 2019 | 1H | 4,320 | 3,118 | 2,599 | 519 | 72,2 | 1,202 |
| | 2H | 6,462 | 4,526 | 3,980 | 546 | 70,0 | 1,936 |

Note: 1) Prior to 2011, conditional approval only included cost-conditional approval; however, effective 2012, conditional approval as regards removal of unsuitable elements is included in addition to cost conditional approval.

2) Only deliberation results for general courses are shown(excludes National Key Strategic Industry Occupation Training)

3) Extended courses were only included at the time of initial course assessment

4) Assessment results for 2017 second-half special accreditation level courses included

Source: Korea Research Institute for Vocational Education and Training (2014). Internal data of Center for Evaluation of Vocational Skills Development
Korea University of Technology and Education, Korean Skills Quality Authority. Collective Training Evaluation Center Internal Materials (2015, 2016, 2017, 2018, 2019)

11) Vocational Skills Development Unemployed Account System Eligible Training Course Evaluation Results by Occupation Types

(Unit: Number)

| KECO Sub Category | 2018(1-H) | | | | 2018(2-H) | | | | 2019(1-H) | | | | 2019(2-H) | | | |
|-------------------|-----------|----------|------------------------|------------|-----------|----------|------------------------|------------|-----------|----------|------------------------|------------|-----------|----------|------------------------|------------|
| | Total | Elig-ble | Eligible on Conditions | Inel-igble | Total | Elig-ble | Eligible on Conditions | Inel-igble | Total | Elig-ble | Eligible on Conditions | Inel-igble | Total | Elig-ble | Eligible on Conditions | Inel-igble |
| Total | 4,231 | 2,311 | 303 | 1,617 | 5,395 | 3,158 | 655 | 1,582 | 4,320 | 2,599 | 519 | 1,202 | 6,462 | 3,980 | 546 | 1,936 |
| 1 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 2 | 1,075 | 601 | 69 | 405 | 1,247 | 794 | 122 | 331 | 978 | 569 | 97 | 312 | 1534 | 877 | 63 | 594 |
| 3 | 2 | 2 | 0 | 0 | 5 | 4 | 0 | 1 | 1 | 1 | 0 | 0 | 6 | 1 | 5 | 0 |
| 11 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 12 | 2 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 0 | 0 | 2 | 5 | 4 | 1 | 0 |
| 13 | 43 | 28 | 3 | 12 | 98 | 56 | 10 | 32 | 78 | 30 | 16 | 32 | 106 | 52 | 34 | 20 |
| 14 | 52 | 39 | 3 | 10 | 59 | 38 | 7 | 14 | 69 | 50 | 12 | 7 | 103 | 62 | 27 | 14 |
| 15 | 149 | 84 | 15 | 50 | 159 | 85 | 16 | 58 | 129 | 73 | 25 | 31 | 189 | 127 | 15 | 47 |
| 21 | 3 | 2 | 0 | 1 | 1 | 1 | 0 | 0 | 1 | 1 | 0 | 0 | 6 | 4 | 0 | 2 |
| 22 | 8 | 5 | 0 | 3 | 11 | 9 | 0 | 2 | 10 | 8 | 0 | 2 | 13 | 8 | 0 | 5 |
| 23 | 83 | 48 | 0 | 35 | 96 | 74 | 2 | 20 | 75 | 60 | 0 | 15 | 107 | 74 | 0 | 33 |
| 24 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 25 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 30 | 364 | 289 | 6 | 69 | 401 | 226 | 107 | 68 | 375 | 271 | 28 | 76 | 419 | 292 | 23 | 104 |
| 41 | 143 | 81 | 9 | 53 | 236 | 111 | 54 | 71 | 301 | 142 | 58 | 101 | 458 | 290 | 60 | 108 |
| 42 | 2 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 7 | 3 | 1 | 3 |
| 51 | 547 | 224 | 37 | 286 | 791 | 415 | 70 | 306 | 551 | 262 | 91 | 198 | 793 | 416 | 95 | 282 |
| 52 | 37 | 14 | 4 | 19 | 28 | 18 | 8 | 2 | 14 | 5 | 3 | 6 | 18 | 15 | 1 | 2 |
| 53 | 601 | 283 | 57 | 261 | 797 | 519 | 33 | 245 | 537 | 329 | 54 | 154 | 994 | 689 | 31 | 274 |
| 54 | 10 | 3 | 0 | 7 | 9 | 2 | 0 | 7 | 9 | 9 | 0 | 0 | 5 | 3 | 0 | 2 |
| 55 | 352 | 219 | 15 | 118 | 474 | 271 | 100 | 103 | 417 | 299 | 26 | 92 | 567 | 374 | 44 | 149 |
| 56 | 8 | 4 | 4 | 0 | 5 | 4 | 0 | 1 | 10 | 4 | 2 | 4 | 12 | 10 | 2 | 0 |
| 61 | 23 | 16 | 0 | 7 | 30 | 20 | 5 | 5 | 14 | 11 | 1 | 2 | 28 | 13 | 4 | 11 |

(Table continued)

| KECO Sub Category | 2018(1-) | | | | 2018(2-) | | | | 2019(1-) | | | | 2019(2-) | | | |
|-------------------|----------|----------|------------------------|------------|----------|----------|------------------------|------------|----------|----------|------------------------|------------|----------|----------|------------------------|------------|
| | Total | Elig-ble | Eligible on Conditions | Inel-gible | Total | Elig-ble | Eligible on Conditions | Inel-gible | Total | Elig-ble | Eligible on Conditions | Inel-gible | Total | Elig-ble | Eligible on Conditions | Inel-gible |
| 62 | 32 | 17 | 9 | 6 | 46 | 29 | 6 | 11 | 40 | 31 | 4 | 5 | 72 | 43 | 15 | 14 |
| 70 | 120 | 84 | 18 | 18 | 151 | 101 | 24 | 26 | 152 | 112 | 17 | 23 | 187 | 126 | 24 | 37 |
| 81 | 61 | 28 | 18 | 15 | 66 | 23 | 21 | 22 | 57 | 22 | 18 | 17 | 80 | 49 | 15 | 16 |
| 82 | 29 | 11 | 5 | 13 | 49 | 6 | 15 | 28 | 47 | 8 | 11 | 28 | 58 | 19 | 17 | 22 |
| 83 | 88 | 49 | 8 | 31 | 117 | 77 | 8 | 32 | 100 | 69 | 12 | 19 | 140 | 100 | 14 | 26 |
| 84 | 0 | 0 | 0 | 0 | 2 | 0 | 0 | 2 | 0 | 0 | 0 | 0 | 4 | 2 | 0 | 2 |
| 85 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 1 | 2 | 1 | 1 | 0 |
| 86 | 60 | 13 | 6 | 41 | 101 | 45 | 3 | 53 | 62 | 41 | 4 | 17 | 99 | 48 | 24 | 27 |
| 87 | 173 | 77 | 4 | 92 | 232 | 131 | 20 | 81 | 168 | 126 | 17 | 25 | 260 | 176 | 12 | 72 |
| 88 | 151 | 81 | 11 | 59 | 174 | 96 | 24 | 54 | 107 | 66 | 16 | 25 | 176 | 97 | 13 | 66 |
| 89 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 90 | 13 | 6 | 2 | 5 | 9 | 3 | 0 | 6 | 15 | 0 | 7 | 8 | 14 | 5 | 5 | 4 |

Note: 1) Based on 2018 Korean Employment Classification of Occupations (after revision)

2) Training by Occupation (KECO Sub Category)

1. Managers(executive · head of department), 2. management · administrative · clerical, 3. finance · insurance, 11. humanities · social sciences research, 12. natural sciences · life science research, 13. information communications r&d and engineering, 14. construction · mining r&d and engineering, 15. manufacturing r&d and engineering, 21. education, 22. legal, 23. social welfare · religion, 24. police · fire fighting · prison, 25. military, 30. health · medical, 41. art · design · media, 42. sports · recreation, 51. beauty · wedding services, 52. travel · accommodation · game services, 53. food services, 54. guard · security, 55. care service(nursing · child care), 56. cleaning and other personal services, 61. sales, 62. driving · transporting, 70. construction · mining, 81. machinery installment · maintenance · production, 82. metal · materials installation · maintenance · production(sheet metal · forging · casting · welding · painting, etc.), 83. electricity · electronics installation · maintenance · production, 84. information communications installment · maintenance, 85. chemical · environment installation · maintenance · production, 86. textile · clothing production, 87. food processing · production, 88. print · wood · craft and other installation · maintenance · production, 89. simple manufacturing, 90. agriculture forestry and fishing

Source: Korea University of Technology and Education, Korean Skills Quality Authority, Collective Training Evaluation Center Internal Material (2018, 2019)

12) Vocational Skills Development Training Participating Institutions

(Unit: Number)

| Year | Total | Public Training Institutions | | | | | | Private Training Institutions | | | |
|------|-------|------------------------------|-------------------|--|--|---|---------------------------|-------------------------------|---|-----------------------------|-------|
| | | Sub Total | Korea Polytechnic | Korea Chamber of Commerce and Industry | Korea University of Technology and Education | Korea Employment Agency for Persons with Disabilities | Relevant Ministries, etc. | Sub Total | Designated Occupation Training Facility(Including Training Corporation) | Employer Associations, etc. | Other |
| 2007 | 4,975 | 93 | 40 | 8 | 1 | 5 | 39 | 4,882 | 823 | 1,411 | 2,648 |
| 2008 | 5,198 | 93 | 40 | 8 | 1 | 5 | 39 | 5,105 | 943 | 1,006 | 3,156 |
| 2009 | 6,656 | 92 | 38 | 8 | 1 | 5 | 40 | 6,564 | 1,027 | 1,545 | 3,992 |
| 2010 | 6,977 | 81 | 35 | — | 1 | 5 | 40 | 6,896 | 959 | 1,610 | 4,327 |
| 2011 | 7,094 | 80 | 34 | — | 1 | 5 | 40 | 7,014 | 929 | 1,769 | 4,316 |
| 2012 | 6,471 | 81 | 34 | — | 1 | 5 | 41 | 6,390 | 851 | 1,888 | 3,651 |
| 2013 | 7,813 | 82 | 34 | — | 1 | 5 | 42 | 7,731 | 861 | 2,349 | 4,521 |
| 2014 | 8,304 | 82 | 34 | — | 1 | 5 | 42 | 8,222 | 852 | 2,830 | 4,540 |
| 2015 | 7,812 | 82 | 34 | — | 1 | 5 | 42 | 7,730 | 813 | 3,277 | 3,640 |
| 2016 | 6,885 | 85 | 37 | — | 1 | 5 | 42 | 6,800 | 789 | 3,123 | 2,888 |
| 2017 | 7,673 | 85 | 37 | — | 1 | 5 | 42 | 7,588 | 761 | 3,438 | 3,389 |
| 2018 | 7,313 | 85 | 37 | — | 1 | 5 | 42 | 7,228 | 748 | 3,450 | 3,030 |

Note: 1) On September 1, 2010, the Korean Chamber of Commerce and Industry was modified to private training facility (included in Ministry of Employment and Labor designated facilities)

2) Relevant ministries as of December 2018: Ministry of Justice (35), Ministry of Environment (1), Seoul Metropolitan Government (4), Gyeonggi Province (1), Busan Metropolitan City (1)

3) Data Source: Korea Employment Information Service

Source: Ministry of Employment and Labor (2018, 2019). Vocational Skills Development Program Status

4. Other Status

1) National, Public, and Private Employment Security Offices

(Unit: Number)

| Year | Total | National | Public | Private |
|------|--------|----------|--------|---------|
| 2012 | 9,382 | 82 | 244 | 9,056 |
| 2013 | 10,611 | 83 | 244 | 10,284 |
| 2014 | 12,218 | 86 | 244 | 11,888 |
| 2015 | 12,707 | 94 | 243 | 12,370 |
| 2016 | 13,642 | 94 | 243 | 13,305 |
| 2017 | 14,157 | 94 | 243 | 13,820 |
| 2018 | 14,934 | 100 | 243 | 14,591 |

Source: Ministry of Employment and Labor (2017, 2018, 2019), Hired Labor Statistical Yearbook

2) Employment Security Offices Job Placement Performance

(Unit: Person, Percent)

| Year | Total | | National | | Public | | Private | |
|------|-----------|-----------------|----------|-----------------|----------|-----------------|-----------|-----------------|
| | Employed | Employment Rate | Employed | Employment Rate | Employed | Employment Rate | Employed | Employment Rate |
| 1994 | 1,207,076 | 87,9 | 19,213 | 28,9 | 171,433 | 73,3 | 1,016,430 | 94,7 |
| 1995 | 1,460,053 | 87,9 | 15,676 | 28,5 | 137,633 | 75,6 | 1,306,744 | 91,8 |
| 1996 | 1,936,344 | 87,2 | 16,209 | 18,7 | 126,315 | 68,9 | 1,793,820 | 91,9 |
| 1997 | 2,289,544 | 83,9 | 30,023 | 17,2 | 143,384 | 67,3 | 2,116,137 | 90,4 |
| 1998 | 1,842,840 | 44,5 | 129,598 | 9,2 | 175,385 | 23,2 | 1,537,857 | 78,3 |
| 1999 | 2,226,946 | 40,0 | 318,904 | 18,7 | 86,325 | 5,0 | 1,821,717 | 83,9 |
| 2000 | 441,628 | 19,0 | 307,316 | 27,2 | 134,312 | 11,2 | - | - |
| 2001 | 390,720 | 21,0 | 264,597 | 24,1 | 126,123 | 16,4 | - | - |
| 2002 | 330,139 | 24,3 | 194,091 | 21,9 | 136,048 | 28,8 | - | - |
| 2003 | 283,289 | 22,5 | 180,450 | 19,3 | 102,839 | 31,7 | - | - |
| 2004 | 296,415 | 21,5 | 223,757 | 20,1 | 72,658 | 27,1 | - | - |
| 2005 | 394,165 | 24,0 | 317,170 | 23,0 | 76,995 | 28,7 | - | - |
| 2006 | 463,041 | 25,2 | 398,033 | 24,8 | 65,008 | 27,9 | - | - |
| 2007 | 559,056 | 25,7 | 501,256 | 25,5 | 57,800 | 27,4 | - | - |
| 2008 | 607,623 | 26,3 | 544,122 | 26,0 | 63,501 | 29,1 | - | - |
| 2009 | 813,203 | 25,6 | 669,535 | 24,5 | 143,668 | 32,8 | - | - |
| 2010 | 820,950 | 25,5 | 701,928 | 25,5 | 119,022 | 25,5 | - | - |
| 2011 | 814,406 | 26,8 | 656,494 | 25,6 | 157,912 | 32,9 | - | - |
| 2012 | 949,828 | 31,7 | 731,751 | 29,1 | 218,077 | 45,2 | - | - |
| 2013 | 1,134,711 | 33,2 | 853,362 | 29,6 | 281,349 | 52,1 | - | - |
| 2014 | 1,221,284 | 34,1 | 869,913 | 29,7 | 351,371 | 54,7 | - | - |
| 2015 | 1,357,090 | 36,2 | 897,224 | 29,9 | 459,866 | 61,2 | - | - |
| 2016 | 1,391,209 | 38,3 | 828,498 | 29,8 | 562,711 | 66,0 | - | - |
| 2017 | 1,396,631 | 37,8 | 724,357 | 27,1 | 672,274 | 65,5 | - | - |
| 2018 | 1,188,373 | 35,6 | 691,587 | 25,7 | 496,786 | 76,6 | - | - |

Note: 1) Excludes job placement records of private employment agencies since 2000

2) Employment rate = (number of employed ÷ number of job-seekers) × 100

Source: Ministry of Employment and Labor, Hired Labor Statistical Yearbook (Annual)

2020

Human Resources
Development Indicators
in Korea

IV. Career Education



1. Career Education Environment
2. Career Education Operation and Participation
3. Career Design and Career Education Awareness
4. Career Education Performance

1. Career Education Environment

1) School Career Education Annual Plan and Organization

(Unit: School, Percent, Person)

| Classification | Annual Plan Established | | Annual Budget Allocated | | Career Education Organization(Department) | | | |
|----------------|-------------------------|------|-------------------------|------|---|------|--|------|
| | No. of Schools | Rate | No. of Schools | Rate | Existence of Organization (Department) | | Number of Staff Averages ³⁾ | |
| | | | | | No. of Schools | Rate | | |
| 2015 | Elementary School | 387 | 96,7 | 293 | 73,3 | 237 | 59,3 | - |
| | Middle School | 398 | 99,5 | 390 | 97,4 | 287 | 71,8 | 1,93 |
| | High School | 393 | 98,3 | 388 | 97,0 | 337 | 84,3 | 2,84 |
| 2016 | Elementary School | 370 | 92,5 | 294 | 73,4 | 250 | 62,6 | - |
| | Middle School | 397 | 99,2 | 385 | 96,2 | 315 | 78,8 | 1,29 |
| | High School | 392 | 98,0 | 382 | 95,5 | 361 | 90,2 | 1,89 |
| 2017 | Elementary School | 360 | 90,0 | 319 | 79,8 | 352 | 88,0 | - |
| | Middle School | 396 | 99,0 | 392 | 98,0 | 385 | 96,3 | 1,21 |
| | High School | 391 | 97,8 | 377 | 94,3 | 383 | 95,8 | 1,67 |
| 2018 | Elementary School | 360 | 89,9 | 333 | 83,2 | 355 | 88,7 | - |
| | Middle School | 394 | 98,4 | 394 | 98,4 | 370 | 92,6 | 1,22 |
| | High School | 390 | 97,6 | 387 | 96,8 | 383 | 95,8 | 1,73 |
| 2019 | Elementary School | 349 | 87,4 | 340 | 84,9 | 360 | 90,0 | - |
| | Middle School | 390 | 97,4 | 393 | 98,2 | 375 | 93,8 | 1,07 |
| | High School | 397 | 99,3 | 378 | 94,6 | 382 | 95,6 | 1,46 |

- Note: 1) 400 schools per level of school were surveyed
 2) Number of staff for elementary school career education organization (department) was not surveyed
 3) Number of staff average indicates the average number of teachers assigned for counseling in career and advancement to higher schooling within the schools

Source: Ministry of Education, Korea Research Institute for Vocational Education and Training, 2015 School Career Education Fact-finding Survey
 Ministry of Education, Jeollabukdo Office of Education, Korea Research Institute for Vocational Education and Training, 2016 Career Education Status Survey
 Ministry of Education, Jeollabukdo Office of Education · Korea Research Institute for Vocational Education and Training, 2017 Elementary and Middle School Career Education Status Survey
 Ministry of Education · Korea Research Institute for Vocational Education and Training, 2018, 2019 Elementary and Middle School Career Education Status Survey

2) School Career Education Space

(Unit: School, Percent,)

| Classification | | Career Education Space Type | | | | | |
|----------------|-------------------|-----------------------------|------|------------------|------|----------------|------|
| | | Independent Space | | Mixed-used Space | | No Space | |
| | | No. of Schools | Rate | No. of Schools | Rate | No. of Schools | Rate |
| 2015 | Elementary School | 16 | 4,0 | 125 | 31,3 | 259 | 64,7 |
| | Middle School | 188 | 47,0 | 87 | 21,8 | 125 | 31,2 |
| | High School | 183 | 45,7 | 91 | 22,7 | 126 | 31,6 |
| 2016 | Elementary School | 10 | 2,5 | 144 | 36,0 | 246 | 61,5 |
| | Middle School | 212 | 53,1 | 96 | 23,9 | 92 | 22,9 |
| | High School | 190 | 47,5 | 94 | 23,6 | 116 | 28,9 |
| 2017 | Elementary School | 29 | 7,3 | 132 | 33,0 | 239 | 59,8 |
| | Middle School | 244 | 61,0 | 70 | 17,5 | 86 | 21,5 |
| | High School | 200 | 50,0 | 90 | 22,5 | 110 | 27,5 |
| 2018 | Elementary School | 26 | 6,4 | 127 | 31,8 | 247 | 61,8 |
| | Middle School | 248 | 61,9 | 73 | 18,2 | 80 | 19,9 |
| | High School | 228 | 57,1 | 73 | 18,4 | 98 | 24,6 |
| 2019 | Elementary School | 22 | 5,5 | 134 | 33,5 | 244 | 61,0 |
| | Middle School | 232 | 58,0 | 70 | 17,5 | 98 | 24,4 |
| | High School | 226 | 56,5 | 70 | 17,5 | 104 | 26,1 |

Source: Ministry of Education, Korea Research Institute for Vocational Education and Training, 2015 School Career Education Fact-finding Survey
 Ministry of Education, Jeollabukdo Office of Education, Korea Research Institute for Vocational Education and Training, 2016 Career Education Status Survey
 Ministry of Education · Jeollabukdo Office of Education · Korea Research Institute for Vocational Education and Training, 2017 Elementary and Middle School Career Education Status Survey
 Ministry of Education · Korea Research Institute for Vocational Education and Training, 2018, 2019 Elementary and Middle School Career Education Status Survey

3) School Career Education Community Cooperation 1

(Unit : School, Rate, Average, Standard Deviation)

| Classification | Operation of School Career Education Council | | Career Experiencing Site Used by School | | | | | | | |
|----------------|--|------|---|-------------------------------|---|----------------------------|------------------|----------------|-----------------|------------------|
| | No. of Schools | Rate | Private Business Facility/ Association | Public Institution & Facility | Specialized High School/Meister High School | Junior College/ University | Youth Facilities | Other | Total | |
| | | | | | | | | | | |
| 2015 | Elementary School | 26 | 6.5 | - | - | - | - | - | - | 1.85 (3.26) |
| | Middle School | 64 | 16.1 | 7.79 (16.87) | 4.81 (5.06) | 2.23 (2.23) | 1.51 (2.15) | 1.21 (1.58) | 3.45 (16.86) | 21.00 (30.18) |
| | High School | 62 | 15.4 | 5.24 (13.84) | 2.77 (5.02) | - | 3.30 (4.72) | 0.93 (1.29) | 2.06 (10.07) | 14.31 (21.78) |
| 2016 | Elementary School | 16 | 4.0 | - | - | - | - | - | - | 1.43 (2.78) |
| | Middle School | 60 | 15.1 | 6.71 (9.61) | 5.47 (5.57) | 1.85 (2.91) | 1.64 (1.66) | 1.18 (1.35) | 2.08 (8.09) | 18.93 (18.61) |
| | High School | 59 | 14.8 | 5.30 (9.92) | 3.07 (4.90) | - | 3.32 (5.60) | 0.93 (1.78) | 0.18 (0.81) | 12.81 (15.48) |
| 2017 | Elementary School | 19 | 4.8 | - | - | - | - | - | - | 1.45 (2.64) |
| | Middle School | 60 | 15.0 | 6.61 (10.91) | 5.85 (6.22) | 1.84 (2.69) | 1.72 (1.78) | 1.34 (1.92) | 1.78 (7.58) | 19.13 (21.37) |
| | High School | 51 | 12.8 | 5.56 (14.95) | 3.11 (4.32) | 0.10 (0.45) | 3.33 (6.90) | 0.83 (1.38) | 0.73 (3.81) | 13.66 (20.49) |
| 2018 | Elementary School | 15 | 3.8 | - | - | - | - | - | - | 1.65 (3.51) |
| | Middle School | 62 | 15.5 | 6.50 (7.46) | 5.66 (5.58) | 2.07 (3.02) | 1.74 (2.00) | 1.37 (2.26) | 1.30 (3.26) | 18.64 (14.45) |
| | High School | 42 | 10.5 | 7.19 (28.67) | 3.13 (5.14) | 0.26 (1.44) | 3.68 (7.48) | 0.98 (1.56) | 0.69 (3.96) | 15.92 (33.61) |

Note: 1) Sample number of schools for career education network operation is 400 schools per level of school were

2) For elementary school's 'Career Experiencing Site Used by School,' only surveyed the number of total career experiencing sites

3) 'Career Experiencing Site Used by School' is indicated as 'Average(Standard Deviation)'

4) From 2017, 'Specialized High School/Meister High School' survey questions were added for high school's 'Career Experiencing Site Used by School'

Source: Ministry of Education · Korea Research Institute for Vocational Education and Training, 2015 School Career Education Fact-finding Survey

Ministry of Education · Jeollabukdo Office of Education · Korea Research Institute for Vocational Education and Training, 2016 Career Education Status Survey

Ministry of Education · Jeollabukdo Office of Education · Korea Research Institute for Vocational Education and Training, 2017 Elementary and Middle School Career Education Status Survey

Ministry of Education · Korea Research Institute for Vocational Education and Training, 2018 Elementary and Middle School Career Education Status Survey

4) School Career Education Community Cooperation II

(Unit: School, Rate, Average, Standard Deviation)

| Classification | Operation of School Career Education Council | | Career Experiencing Site Used by School | | | | | | | |
|----------------|--|------|---|--------------------|----------------|------------------------------|-----------------------|----------------|----------------|------------------|
| | No. of Schools | Rate | Public Institution and Corporation | Private Enterprise | Small Business | Youth and Civic Organization | School and University | Others | Total | |
| | | | | | | | | | | |
| 2019 | Elementary School | 22 | 5.4 | - | - | - | - | - | - | 1.23 (2.04) |
| | Middle School | 44 | 11.1 | 5.34 (6.37) | 3.66 (4.43) | 4.24 (5.74) | 1.00 (1.64) | 2.75 (3.58) | 0.74 (2.72) | 17.73 (16.09) |
| | High School | 52 | 13.1 | 3.35 (6.45) | 3.45 (7.50) | 2.71 (6.64) | 0.80 (1.60) | 3.64 (5.53) | 0.37 (1.31) | 14.33 (19.89) |

Note: 1) For elementary schools, only the total number was surveyed

2) Input '0' for schools that answered no career experiencing sites used

Source: Ministry of Education · Korea Research Institute for Vocational Education and Training, Elementary and Middle School Career Education Survey (2019)

5) Career Specialist Teachers Allocation Status

(Unit: Person, School, Percent)

| Classification | | Nb. of Placements | Nb. of Circulating Teachers | Placed School (A) | Total School (B) | Placement Ratio (A/B) | |
|-------------------|-------------------------|-------------------|-----------------------------|-------------------|------------------|-----------------------|------|
| Elementary School | National & Public | 6,030 | 0 | 6,001 | 6,003 | 100 | |
| | Private | 72 | 0 | 72 | 75 | 96 | |
| | Subtotal | 6,102 | 0 | 6,073 | 6,078 | 99.9 | |
| Middle School | National & Public | 2,257 | 220 | 2,379 | 2,582 | 92.1 | |
| | Private | 539 | 21 | 559 | 632 | 88.4 | |
| | Subtotal | 2,796 | 241 | 2,938 | 3,214 | 91.4 | |
| High School | General High School | National & Public | 1,077 | 17 | 1,064 | 1,106 | 96.2 |
| | | Private | 669 | 1 | 661 | 720 | 91.8 |
| | | Subtotal | 1,746 | 18 | 1,725 | 1,826 | 94.5 |
| | Specialized High School | National & Public | 289 | 6 | 284 | 304 | 93.4 |
| | | Private | 214 | 0 | 211 | 226 | 93.4 |
| | | Subtotal | 503 | 6 | 495 | 530 | 93.4 |
| Subtotal | | 2,249 | 24 | 2,220 | 2,356 | 94.2 | |
| Total | National & Public | 9,653 | 243 | 9,728 | 9,995 | 97.3 | |
| | Private | 1,494 | 22 | 1,503 | 1,653 | 90.9 | |
| | Subtotal | 11,147 | 265 | 11,231 | 11,648 | 96.4 | |

Note: 1) General high school includes autonomous high schools and special-purposed high schools

2) Specialized high school includes Meister high schools

Source: Ministry of Education Internal Data (As of April 2019)

2. Career Education Operation and Participation

1) “Career and Vocation” Course Operation Methods (Middle and High Schools)

(Unit: School, Percent)

| Level of School | “Career and Vocation” Course in Operation | | | | | | | | “Career and Vocation” Course Not in Operation | | Total | | |
|-----------------|---|------|--|------|---|------|-----------|------|---|------|-----------|------|-------|
| | Selected and Taught as Elective Subject | | “Career and Vocation” Textbook Used in ‘Creative Experience Activities’ Course | | “Career and Vocation” Taught in both Elective and Creative Experience Activities Course | | Sub Total | | Frequency | Rate | Frequency | Rate | |
| | Frequency | Rate | Frequency | Rate | Frequency | Rate | Frequency | Rate | | | | | |
| 2018 | Middle School | 255 | 63,8 | 42 | 10,4 | 52 | 13,1 | 349 | 87,3 | 51 | 12,7 | 400 | 100,0 |
| | High School | 156 | 39,1 | 47 | 11,7 | 31 | 7,8 | 234 | 58,6 | 166 | 41,4 | 400 | 100,0 |
| 2019 | Middle School | 273 | 68,3 | 29 | 7,3 | 44 | 11,0 | 346 | 86,6 | 54 | 13,4 | 400 | 100,0 |
| | High School | 185 | 46,3 | 53 | 13,2 | 18 | 4,5 | 256 | 64,0 | 144 | 36,0 | 400 | 100,0 |

Note: Each rates are calculated against the total number of respondents (400 people)
 Source: Ministry of Education · Korea Research Institute for Vocational Education and Training, 2018, 2019 Elementary and Middle School Career Education Status Survey

2) “Career and Vocation” Elective Course Adoption Status (Middle and High Schools)

(Unit: School, Percent)

| Level of School | | Number of Schools | Rate |
|-----------------|---------------|-------------------|------|
| 2018 | Middle School | 307 | 76,9 |
| | High School | 187 | 46,9 |
| 2019 | Middle School | 317 | 79,3 |
| | High School | 203 | 50,8 |

Note: 1) Rates are calculated against the total number of respondents(400 people)
 2) “Career and Occupation” subject course operation methods include ‘Selected and Taught as Elective Subject’ and ‘“Career and Occupation” Taught in both Elective and Creative Experience Activities Course’
 Source: Ministry of Education · Korea Research Institute for Vocational Education and Training, 2018, 2019 Elementary and Middle School Career Education Status Survey

3) “Career and Vocation” Course Operation Timeline (Middle and High Schools)

(Unit: School, Percent)

| Classification | 1 st Year | | | | 2 nd Year | | | | 3 rd Year | | | | |
|----------------|--------------------------|------|--------------------------|------|--------------------------|------|--------------------------|------|--------------------------|------|--------------------------|------|------|
| | 1 st Semester | | 2 nd Semester | | 1 st Semester | | 2 nd Semester | | 1 st Semester | | 2 nd Semester | | |
| | No. of Schools | Rate | No. of Schools | Rate | No. of Schools | Rate | No. of Schools | Rate | No. of Schools | Rate | No. of Schools | Rate | |
| 2015 | Middle School | 226 | 70,2 | 227 | 70,7 | 148 | 45,9 | 143 | 44,5 | 154 | 47,9 | 151 | 46,8 |
| | High School | 162 | 75,5 | 167 | 77,5 | 83 | 38,4 | 82 | 38,3 | 74 | 34,6 | 71 | 33,1 |
| 2016 | Middle School | 207 | 67,5 | 200 | 65,2 | 116 | 37,8 | 111 | 36,1 | 157 | 51,2 | 145 | 47,3 |
| | High School | 132 | 70,4 | 129 | 68,8 | 51 | 27,4 | 54 | 29,0 | 59 | 31,7 | 59 | 31,3 |
| 2017 | Middle School | 253 | 70,5 | 228 | 63,5 | 154 | 42,9 | 139 | 38,7 | 178 | 49,6 | 168 | 46,8 |
| | High School | 192 | 76,5 | 195 | 77,7 | 106 | 42,2 | 100 | 39,8 | 92 | 36,7 | 87 | 34,7 |
| 2018 | Middle School | 262 | 75,1 | 239 | 68,6 | 149 | 42,6 | 143 | 41,1 | 166 | 47,4 | 157 | 44,9 |
| | High School | 180 | 76,7 | 175 | 74,6 | 74 | 31,7 | 76 | 32,4 | 91 | 38,6 | 80 | 34,0 |
| 2019 | Middle School | 241 | 69,5 | 224 | 64,6 | 122 | 35,1 | 121 | 35,0 | 172 | 49,5 | 169 | 48,9 |
| | High School | 207 | 81,0 | 204 | 79,5 | 93 | 36,2 | 90 | 35,1 | 97 | 37,9 | 96 | 37,4 |

Note: Surveyed schools operating “Career and Occupation” course

Source: Ministry of Education · Korea Research Institute for Vocational Education and Training, 2015

School Career Education Fact-finding Survey

Ministry of Education · Jeollabukdo Office of Education · Korea Research Institute for Vocational Education and Training, 2016 Career Education Status Survey

Ministry of Education · Jeollabukdo Office of Education · Korea Research Institute for Vocational Education and Training, 2017 Elementary and Middle School Career Education Status Survey

Ministry of Education · Korea Research Institute for Vocational Education and Training, 2018, 2019 Elementary and Middle School Career Education Status Survey

4) Career Psychological Test Implementation at Schools

(Unit: School, Percent)

| Classification | 1 st Year | | 2 nd Year | | 3 rd Year | | Total | |
|----------------|----------------------|------|----------------------|------|----------------------|------|----------------|------|
| | No. of Schools | Rate | No. of Schools | Rate | No. of Schools | Rate | No. of Schools | Rate |
| 2015 | Elementary School | – | – | – | – | – | 340 | 85,0 |
| | Middle School | 390 | 97,4 | 376 | 93,9 | 387 | 398 | 99,4 |
| | High School | 395 | 98,8 | 331 | 82,7 | 185 | 399 | 99,7 |
| 2016 | Elementary School | – | – | – | – | – | 338 | 84,4 |
| | Middle School | 385 | 96,2 | 371 | 92,7 | 392 | 399 | 99,7 |
| | High School | 394 | 98,5 | 324 | 81,0 | 170 | 397 | 99,3 |
| 2017 | Elementary School | – | – | – | – | – | 330 | 82,5 |
| | Middle School | 383 | 95,8 | 362 | 90,5 | 383 | 395 | 98,8 |
| | High School | 390 | 97,5 | 304 | 76,0 | 164 | 394 | 98,5 |
| 2018 | Elementary School | – | – | – | – | – | 376 | 94,1 |
| | Middle School | – | – | – | – | – | 399 | 99,8 |
| | High School | – | – | – | – | – | 396 | 99,0 |
| 2019 | Elementary School | – | – | – | – | – | 360 | 90,1 |
| | Middle School | – | – | – | – | – | 398 | 99,4 |
| | High School | – | – | – | – | – | 394 | 98,6 |

- Note: 1) Elementary schools were only asked for 'yes/no' for career psychological test implementation
 2) Middle and high schools were asked to check for all career psychological tests implemented per each grade year, and were to check "implemented" for implementing at least one test (applies only to 2016–2017)
 3) From 2018, only surveyed in 'yes/no' for career psychological test implementation regardless of level of school

Source: Ministry of Education • Korea Research Institute for Vocational Education and Training, 2015 School Career Education Fact-finding Survey
 Ministry of Education • Jeollabukdo Office of Education • Korea Research Institute for Vocational Education and Training, 2016 Career Education Status Survey
 Ministry of Education • Jeollabukdo Office of Education • Korea Research Institute for Vocational Education and Training, 2017 Elementary and Middle School Career Education Status Survey
 Ministry of Education • Korea Research Institute for Vocational Education and Training, 2018, 2019 Elementary and Middle School Career Education Status Survey

5) Career Psychological Test Implementation Methods
 (Middle and High School)

(Unit: School, Percent)

| Career Psychological Test Implementation Method | | | Middle School | | High School | |
|---|---------|------|---------------|------|-------------|------|
| | | | Frequency | Rate | Frequency | Rate |
| 2018 | Online | Free | 191 | 47,9 | 183 | 46,1 |
| | | Paid | 18 | 4,4 | 11 | 2,8 |
| | Offline | Free | 96 | 24,0 | 93 | 23,6 |
| | | Paid | 319 | 79,9 | 300 | 75,7 |
| 2019 | Online | Free | 176 | 44,3 | 199 | 50,5 |
| | | Paid | 14 | 3,5 | 10 | 2,4 |
| | Offline | Free | 94 | 23,6 | 84 | 21,3 |
| | | Paid | 302 | 75,9 | 306 | 77,7 |

Note: 1) Surveyed schools that conduct career psychology tests

2) Multiple answers allowed(select within 2)

3) Rate is calculated based on schools that implement career psychology tests

* 2018 : 399 Middle Schools, 396 High Schools

* 2019 : 398 Middle Schools, 394 High Schools)

 Source: Ministry of Education • Korea Research Institute for Vocational Education and Training, 2018, 2019
 Elementary and Middle School Career Education Status Survey

6) School Career Activities Participation Status

(Units: Person, Percent)

| Year | School Career Activities | Elementary School | | Middle School | | High School | |
|------|---------------------------------|-------------------|------|---------------|------|-------------|------|
| | | Person | Rate | Person | Rate | Person | Rate |
| 2015 | Career Exploration During Class | 5,719 | 76.9 | — | — | — | — |
| | Career Psychological Test | — | — | 8,380 | 78.1 | 8,802 | 80.7 |
| | Career Experiencing | 4,816 | 64.7 | 7,961 | 74.2 | 7,465 | 68.4 |
| | Career Counseling | 4,434 | 59.6 | 6,399 | 59.7 | 6,521 | 59.8 |
| | 「Career and Occupation」 Class | — | — | 9,409 | 87.7 | 9,192 | 84.3 |
| | Career Clubs | — | — | 3,388 | 31.6 | 4,222 | 38.7 |
| 2016 | Career Exploration During Class | 5,775 | 78.6 | 7,758 | 80.6 | 7,822 | 76.0 |
| | Career Psychological Test | 5,717 | 77.8 | 7,683 | 79.8 | 8,474 | 82.3 |
| | Career Experiencing | 5,061 | 68.9 | 7,695 | 79.9 | 7,573 | 73.6 |
| | Career Counseling | 3,833 | 52.2 | 6,234 | 64.8 | 6,960 | 67.6 |
| | 「Career and Occupation」 Class | — | — | 8,512 | 88.4 | 8,615 | 83.7 |
| | Career Clubs | — | — | 4,065 | 42.2 | 5,252 | 51.0 |
| 2017 | Career Exploration During Class | 6,328 | 80.3 | 7,446 | 79.3 | 7,249 | 69.6 |
| | Career Psychological Test | 6,042 | 76.7 | 8,005 | 85.3 | 8,648 | 83.0 |
| | Career Experiencing | 5,827 | 74.0 | 8,168 | 87.0 | 7,651 | 73.5 |
| | Career Counseling | 4,625 | 58.7 | 5,938 | 63.3 | 6,457 | 62.0 |
| | 「Career and Occupation」 Class | — | — | 8,581 | 91.4 | 8,805 | 84.6 |
| | Career Clubs | — | — | 4,154 | 44.3 | 4,888 | 46.9 |

<Table Continued>

| Year | School Career Activities | Elementary School | | Middle School | | High School | |
|------|---------------------------------|-------------------|------|---------------|------|-------------|------|
| | | Person | Rate | Person | Rate | Person | Rate |
| 2018 | Career Exploration During Class | 7,608 | 88.5 | 8,328 | 91.3 | 8,044 | 84.3 |
| | Career Psychological Test | 7,232 | 84.1 | 8,198 | 89.9 | 8,237 | 86.3 |
| | Career Experiencing | 6,683 | 77.7 | 8,334 | 91.4 | 7,396 | 77.5 |
| | Career Counseling | 4,528 | 52.7 | 7,125 | 78.1 | 6,702 | 70.2 |
| | 「Career and Occupation」 Class | — | — | 8,540 | 93.6 | 8,135 | 85.2 |
| | Career Clubs | — | — | 4,986 | 54.7 | 5,503 | 57.6 |
| | Startup Education | 4,539 | 52.8 | 4,597 | 50.4 | 4,046 | 42.4 |
| 2019 | Career Exploration During Class | 6,772 | 90.3 | 7,937 | 89.0 | 7,049 | 84.3 |
| | Career Psychological Test | 6,187 | 82.5 | 7,712 | 86.5 | 7,155 | 85.5 |
| | Career Experiencing | 6,048 | 80.6 | 8,026 | 90.0 | 6,547 | 78.3 |
| | Career Counseling | 4,090 | 54.5 | 6,346 | 71.2 | 5,922 | 70.8 |
| | 「Career and Occupation」 Class | — | — | 8,239 | 92.4 | 7,027 | 84.0 |
| | Career Clubs | — | — | 4,632 | 51.9 | 5,024 | 60.1 |
| | Startup Education | 4,127 | 55.0 | 4,344 | 48.7 | 3,500 | 41.8 |

Note: 1) Participation status counts those who answered 'yes (I participated)'

2) Items that were not in the questionnaires for each year and curriculum are treated as '-'

3) Total number of respondents in each year and curriculum are not the same

Source: Ministry of Education · Korea Research Institute for Vocational Education and Training, 2015 School Career Education Fact-finding Survey

Ministry of Education · Jeollabukdo Office of Education · Korea Research Institute for Vocational Education and Training, 2016 Career Education Status Survey

Ministry of Education · Jeollabukdo Office of Education · Korea Research Institute for Vocational Education and Training, 2017 Elementary and Middle School Career Education Status Survey

Ministry of Education · Korea Research Institute for Vocational Education and Training, 2018, 2019 Elementary and Middle School Career Education Status Survey

7) School Career Exploration Participation Status and Usefulness
(Middle and High School Students)

(Units: Person, Percent)

| Year | Career Exploration Type | Middle School Students | | | | Middle School Students | | | |
|------|--|------------------------|------|------------|--------------------|------------------------|------|------------|--------------------|
| | | Participation Status | | Usefulness | | Participation Status | | Usefulness | |
| | | Frequency | Rate | Average | Standard Deviation | Frequency | Rate | Average | Standard Deviation |
| 2015 | Special Lecture and Mentoring by Specialists | 6,056 | 56.5 | 3.68 | 0.94 | - | - | - | - |
| | Field Trip | 5,650 | 52.7 | 3.77 | 0.90 | - | - | - | - |
| | On-site Job Experiencing (Real Job Experiencing) | 3,972 | 37.0 | 3.83 | 0.90 | - | - | - | - |
| | Job Practical Experience (Mock Job Experiencing) | 3,083 | 28.7 | 3.89 | 0.90 | - | - | - | - |
| | School Major Experience | 3,070 | 28.6 | 3.83 | 0.91 | - | - | - | - |
| | Career Camp | 2,564 | 23.9 | 3.88 | 0.95 | - | - | - | - |
| 2016 | Special Lecture and Mentoring by Specialists | 5,669 | 58.9 | 3.75 | 0.95 | 7,741 | 75.2 | 3.70 | 0.89 |
| | Field Trip | 5,317 | 55.2 | 3.84 | 0.94 | 5,089 | 49.4 | 3.80 | 0.89 |
| | On-site Job Experiencing (Real Job Experiencing) | 3,955 | 41.1 | 3.92 | 0.92 | 3,164 | 30.7 | 3.89 | 0.90 |
| | Job Practical Experience (Mock Job Experiencing) | 3,855 | 40.1 | 3.87 | 0.93 | 3,336 | 32.4 | 3.82 | 0.89 |
| | School Major Experience | 3,132 | 32.5 | 3.92 | 0.94 | 4,707 | 45.7 | 3.85 | 0.88 |
| | Career Camp | 2,746 | 28.5 | 3.95 | 0.93 | 3,670 | 35.7 | 3.83 | 0.90 |

(Table Continued)

| Year | Career Exploration Type | Middle School Students | | | | Middle School Students | | | |
|------|--|------------------------|------|------------|--------------------|------------------------|------|------------|--------------------|
| | | Participation Status | | Usefulness | | Participation Status | | Usefulness | |
| | | Frequency | Rate | Average | Standard Deviation | Frequency | Rate | Average | Standard Deviation |
| 2017 | Special Lecture and Mentoring by Specialists | 6,911 | 73.6 | 3.55 | 0.98 | 7,786 | 74.8 | 3.63 | 0.94 |
| | Field Trip | 6,855 | 73.0 | 3.70 | 0.98 | 5,290 | 50.8 | 3.77 | 0.95 |
| | On-site Job Experiencing (Real Job Experiencing) | 4,611 | 49.1 | 3.75 | 0.95 | 3,033 | 29.1 | 3.84 | 0.93 |
| | Job Practical Experience (Mock Job Experiencing) | 5,136 | 54.7 | 3.77 | 0.94 | 3,153 | 30.3 | 3.90 | 0.90 |
| | School Major Experience | 3,692 | 39.3 | 3.77 | 0.97 | 4,750 | 45.6 | 3.82 | 0.94 |
| | Career Camp | 3,072 | 32.7 | 3.82 | 0.96 | 2,984 | 28.7 | 3.88 | 0.94 |
| 2018 | Special Lecture and Mentoring by Specialists | 7,073 | 77.5 | 3.98 | 0.94 | 7,281 | 76.3 | 3.78 | 0.92 |
| | Field Trip | 6,999 | 76.7 | 4.06 | 0.90 | 4,892 | 51.2 | 3.96 | 0.88 |
| | On-site Job Experiencing (Real Job Experiencing) | 5,626 | 61.7 | 4.14 | 0.89 | 3,151 | 33.0 | 4.04 | 0.86 |
| | Job Practical Experience (Mock Job Experiencing) | 5,669 | 62.1 | 4.10 | 0.90 | 3,342 | 35.0 | 4.00 | 0.90 |
| | School Major Experience | 5,091 | 55.8 | 4.16 | 0.88 | 4,814 | 50.4 | 3.97 | 0.89 |
| | Career Camp | 4,809 | 52.7 | 4.18 | 0.88 | 3,731 | 39.1 | 4.00 | 0.90 |

(Table Continued)

| Year | Career Exploration Type | Middle School Students | | | | Middle School Students | | | |
|------|--|------------------------|------|------------|--------------------|------------------------|------|------------|--------------------|
| | | Participation Status | | Usefulness | | Participation Status | | Usefulness | |
| | | Frequency | Rate | Average | Standard Deviation | Frequency | Rate | Average | Standard Deviation |
| 2019 | Special Lecture and Mentoring by Specialists | 6,688 | 75.0 | 3.89 | 0.97 | 6,326 | 75.6 | 3.84 | 0.94 |
| | Field Trip | 6,277 | 70.4 | 4.02 | 0.91 | 4,585 | 54.8 | 4.00 | 0.91 |
| | On-site Job Experiencing (Real Job Experiencing) | 5,189 | 58.2 | 4.04 | 0.91 | 3,156 | 37.7 | 4.05 | 0.89 |
| | Job Practical Experience (Mock Job Experiencing) | 5,026 | 56.4 | 4.08 | 0.91 | 2,934 | 35.1 | 4.10 | 0.88 |
| | School Major Experience | 4,412 | 49.5 | 4.07 | 0.91 | 4,467 | 53.4 | 3.98 | 0.93 |
| | Career Camp | 4,070 | 45.6 | 4.10 | 0.93 | 3,337 | 39.9 | 4.03 | 0.93 |

Note: 1) 'participation status' indicates the number of students and rates of who responded 'yes(participated)'

2) 'Usefulness' was measured on a 5-point Likert scale (① not helpful at all to ⑤ very helpful) of respondents who answered 'yes(participated)'

Source: Ministry of Education · Korea Research Institute for Vocational Education and Training, 2015 School Career Education Fact-finding Survey
 Ministry of Education · Jeollabukdo Office of Education · Korea Research Institute for Vocational Education and Training, 2016 Career Education Status Survey
 Ministry of Education · Jeollabukdo Office of Education · Korea Research Institute for Vocational Education and Training, 2017 Elementary and Middle School Career Education Status Survey
 Ministry of Education · Korea Research Institute for Vocational Education and Training, 2018, 2019 Elementary and Middle School Career Education Status Survey

3. Career Design and Career Education Awareness

1) Desired Occupation Types (Middle Classification) by High School Students - Top 10

(Units: Person, Percent)

| Rank | Occupation Types (Middle Classification) | Occupation Examples | Person | Rate |
|------|---|---|--------|------|
| 1 | Culture·Art·Sports Specialist and Related | Designer, Writer, Journalist, Entertainer, Film Director, Cartoonist, Athlete, etc. | 1,083 | 16.3 |
| 2 | Health·Social Welfare and Religion Related Specialist | Doctor, Nurse, Dental Hygienist, Social Worker, Pastor, etc. | 616 | 9.3 |
| 3 | Education Specialist and Related | Math Teacher, Preschool Teacher, Professor, etc. | 512 | 7.7 |
| 4 | Information and Communication Specialist and Technician | Programmer, Computer Security Expert, Web and App Developer, etc. | 369 | 5.5 |
| 5 | Science Specialist and Related | Life Sciences Researcher, Physics Researcher, Social Sciences Researcher, etc. | 341 | 5.1 |
| 6 | Engineer and Technician | Architect, Machine·Robot Engineer, Pilot, etc. | 336 | 5.1 |
| 7 | Military Specialist | Officer, Sergeant, Warrant Officer, etc. | 302 | 4.5 |
| 8 | Police·Fire Fighting and Security Related Services Specialist | Police Officer, Fire Fighter, Security Guard, etc. | 293 | 4.4 |
| 9 | Management and Accounting Related Office Work | Management and Accounting Related Office Work, Assistant, etc. | 168 | 2.5 |
| 10 | Transportation and Leisure Services Occupation | Flight Attendant, Tour Guide, Golf Caddy, Forest Guide, etc. | 156 | 2.3 |

Note: 1) Survey targeted students with desired jobs

2) 7th Korean Employment Classification of Occupations classifications

3) 'Not found in the list above' (11.6%) is excluded from the ranking

Source: Ministry of Education · Korea Research Institute for Vocational Education and Training. 2019 Elementary and Middle School Career Education Status Survey

2) Desired Majors by High School Students (Departments Middle Classification) - Top 10

(Units: Person, Percent)

| Rank | Department (Field of Major) | Person | Rate |
|------|-------------------------------|--------|------|
| 1 | Business·Economics | 549 | 9,4 |
| 2 | Language·Literature | 484 | 8,3 |
| 3 | Computer·Communications | 448 | 7,7 |
| 4 | Social Sciences | 447 | 7,6 |
| 5 | Design | 375 | 6,4 |
| 6 | Humanities | 334 | 5,7 |
| 7 | Dance and Physical Education | 333 | 5,7 |
| 8 | Secondary Education | 331 | 5,7 |
| 9 | Nursing | 324 | 5,5 |
| 10 | Biology·Chemistry·Environment | 305 | 5,2 |

- Note: 1) Surveyed students who responded 'advance into university' from 'Careers Desired by High School Students'
 2) According to Korea Educational Development Institute's department classification sub category level, 35 departments (field of major) were given
 3) Analysis excludes those undecided to department (field of major) sub category level, and unable to find from classification

Source: Ministry of Education · Korea Research Institute for Vocational Education and Training, 2019 Elementary and Middle School Career Education Status Survey

3) School Administrator's School Career Education Awareness Level

(Unit: Point)

| Career Education Related Item | Degree of Agreement | | | | | |
|--|---------------------|--------------------|---------------|--------------------|-------------|--------------------|
| | Elementary School | | Middle School | | High School | |
| | Average | Standard Deviation | Average | Standard Deviation | Average | Standard Deviation |
| Need for Career Education at Schools | 4.78 | 0.48 | 4.79 | 0.43 | 4.71 | 0.52 |
| School Career Education Course Hour Increase | 4.03 | 0.90 | 3.57 | 1.03 | 3.64 | 0.93 |
| Vitalization of Career Experiencing in School Curriculum(Course) | 4.27 | 0.80 | 3.86 | 0.94 | 3.96 | 0.80 |
| Need for Career Education Link to Subject(Integration) | 4.42 | 0.66 | 4.37 | 0.67 | 4.23 | 0.68 |
| Prioritizing Career Education Budget | 4.06 | 0.84 | 3.86 | 0.80 | 3.95 | 0.76 |
| Administrators' Career Education Training Participation | 4.49 | 0.64 | 4.38 | 0.70 | 4.24 | 0.72 |
| Participation Support in Career Education Training for Teachers | 4.52 | 0.61 | 4.43 | 0.62 | 4.32 | 0.66 |
| Importance of Career Education Dedicated Teachers | 4.04 | 0.89 | 4.52 | 0.68 | 4.51 | 0.66 |
| Importance of Homeroom Teachers in Career Education | 4.66 | 0.55 | 4.50 | 0.59 | 4.55 | 0.56 |
| Providing Career Education Considering Student Characteristics | 4.19 | 0.74 | 4.36 | 0.64 | 4.24 | 0.68 |

Note: 1) Range of response is from 1 point (not agree at all) to 5 points (strongly agree)

2) The number of samples was 400 for elementary schools, 400 for middle schools, and 400 for high schools

Source: Ministry of Education • Korea Research Institute for Vocational Education and Training, 2019 Elementary and Middle School Career Education Status Survey

4) Homeroom Teacher’s Career Education (Guidance) Awareness Level

(Unit: Point)

| Career Education Related Item | Degree of Agreement | | | | | | | |
|--|---------------------|--------------------|----------------------|--------------------|--------------------|--------------------|----------------------|--------------------|
| | High School (2016) | | Middle School (2017) | | High School (2018) | | Middle School (2019) | |
| | Average | Standard Deviation | Average | Standard Deviation | Average | Standard Deviation | Average | Standard Deviation |
| Need for Career Education at Schools | 4,57 | 0,59 | 4,65 | 0,57 | 4,57 | 0,59 | 4,61 | 0,57 |
| Career Education Course Hour Increase in School Curriculum | 3,65 | 0,95 | 3,84 | 0,96 | 3,65 | 1,00 | 3,78 | 0,96 |
| Need for Career Education Link to Subjects(Integration) | 3,98 | 0,82 | 4,08 | 0,85 | 3,97 | 0,83 | 4,08 | 0,79 |
| Importance of Homeroom Teachers in Career Education(Career Guidance) | 4,09 | 0,74 | 4,07 | 0,81 | 4,11 | 0,73 | 4,13 | 0,77 |
| Intention to Participate in Career Education(Career Guidance) Training | 4,03 | 0,82 | 3,96 | 0,88 | 3,98 | 0,86 | 4,04 | 0,86 |

Note: 1) Degree of agreement for career education related items using a Likert scale of 1(strongly disagree) to 5(strongly agree)

2) Surveyed high schools in 2016, 2018 (even years), and middle schools in 2017, 2019 (odd years)

Source: Ministry of Education · Jeollabukdo Office of Education · Korea Research Institute for Vocational Education and Training, 2016 Career Education Status Survey
 Ministry of Education · Jeollabukdo Office of Education · Korea Research Institute for Vocational Education and Training, 2017 Elementary and Middle School Career Education Status Survey
 Ministry of Education · Korea Research Institute for Vocational Education and Training, 2018, 2019 Elementary and Middle School Career Education Status Survey

4. Career Education Performance

1) Students' Desired Occupations (Career Goals) Decision Status

(Units: Person, Percent)

| Level of School | | Has Desired Occupation | | Has No Desired Occupation | | Total | |
|-----------------|---------------------------|------------------------|------|---------------------------|------|--------|-------|
| | | Person | Rate | Person | Rate | Person | Rate |
| 2017 | Elementary School Student | 6,976 | 88.5 | 903 | 11.5 | 7,879 | 100.0 |
| | Middle School Student | 6,563 | 69.9 | 2,823 | 30.1 | 9,386 | 100.0 |
| | High School Student | 8,266 | 79.4 | 2,147 | 20.6 | 10,413 | 100.0 |
| 2018 | Elementary School Student | 7,680 | 89.3 | 917 | 10.7 | 8,597 | 100.0 |
| | Middle School Student | 6,569 | 72.0 | 2,553 | 28.0 | 9,122 | 100.0 |
| | High School Student | 7,695 | 80.6 | 1,850 | 19.4 | 9,545 | 100.0 |
| 2019 | Elementary School Student | 6,542 | 87.2 | 959 | 12.8 | 7,501 | 100.0 |
| | Middle School Student | 6,411 | 71.9 | 2,506 | 28.1 | 8,917 | 100.0 |
| | High School Student | 6,653 | 79.5 | 1,712 | 20.5 | 8,365 | 100.0 |

Source: Ministry of Education · Jeollabukdo Office of Education · Korea Research Institute for Vocational Education and Training, 2017 Elementary and Middle School Career Education Status Survey
 Ministry of Education · Korea Research Institute for Vocational Education and Training, 2018, 2019 Elementary and Middle School Career Education Status Survey

2) Students' Desired Occupations (Career Goals) Decision Trend

(Unit: Percent)

| Level of School | 2014 | 2015 | 2016 | 2017 | 2018 | 2019 |
|---------------------------|------|------|------|------|------|------|
| Elementary School Student | 87.1 | 91.3 | 88.8 | 88.5 | 89.3 | 87.2 |
| Middle School Student | 68.4 | 73.0 | 73.4 | 69.9 | 72.0 | 71.9 |
| High School Student | 70.5 | 81.7 | 81.4 | 79.4 | 80.6 | 79.5 |

Source: Ministry of Education · Korea Research Institute for Vocational Education and Training, 2014, 2015 School Career Education Fact-finding Survey
 Ministry of Education · Jeollabukdo Office of Education · Korea Research Institute for Vocational Education and Training, 2016 Career Education Status Survey
 Ministry of Education · Jeollabukdo Office of Education · Korea Research Institute for Vocational Education and Training, 2017 Elementary and Middle School Career Education Status Survey
 Ministry of Education · Korea Research Institute for Vocational Education and Training, 2018, 2019 Elementary and Middle School Career Education Status Survey

3) Students' Career Development Capacity Level

(Unit: Point)

| Career Development Capacity | | Elementary School Student | | Middle School Student | | High School Student | |
|-----------------------------|------------------------------------|---------------------------|--------------------|-----------------------|--------------------|---------------------|--------------------|
| | | Average | Standard Deviation | Average | Standard Deviation | Average | Standard Deviation |
| 2015 | Self-understanding and Sociability | 4.48 | 0.57 | 4.05 | 0.71 | 3.92 | 0.72 |
| | Job Understanding | 4.39 | 0.62 | 3.69 | 0.80 | 3.62 | 0.75 |
| | Career Exploration | 4.01 | 0.83 | 3.86 | 0.77 | 3.57 | 0.77 |
| | Career Design and Readiness | 4.23 | 0.73 | 3.72 | 0.81 | 3.66 | 0.78 |
| | Total | 4.29 | 0.59 | 3.85 | 0.67 | 3.70 | 0.78 |
| 2016 | Self-understanding and Sociability | 4.49 | 0.58 | 4.10 | 0.72 | 3.93 | 0.73 |
| | Job Understanding | 4.39 | 0.63 | 3.73 | 0.78 | 3.60 | 0.77 |
| | Career Exploration | 3.95 | 0.85 | 3.92 | 0.77 | 3.57 | 0.77 |
| | Career Design and Readiness | 4.18 | 0.74 | 3.77 | 0.81 | 3.65 | 0.79 |
| | Total | 4.27 | 0.58 | 3.90 | 0.67 | 3.70 | 0.68 |
| 2017 | Self-understanding and Sociability | 4.44 | 0.57 | 4.09 | 0.68 | 3.94 | 0.67 |
| | Job Understanding | 4.34 | 0.63 | 3.79 | 0.76 | 3.62 | 0.74 |
| | Career Exploration | 3.89 | 0.84 | 3.94 | 0.75 | 3.61 | 0.76 |
| | Career Design and Readiness | 4.10 | 0.73 | 3.77 | 0.81 | 3.70 | 0.79 |
| | Total | 4.21 | 0.59 | 3.91 | 0.65 | 3.72 | 0.66 |

<Table continued>

| Career Development Capacity | | Elementary School Student | | Middle School Student | | High School Student | |
|-----------------------------|------------------------------------|---------------------------|--------------------|-----------------------|--------------------|---------------------|--------------------|
| | | Average | Standard Deviation | Average | Standard Deviation | Average | Standard Deviation |
| 2018 | Self-understanding and Sociability | 4.43 | 0.58 | 4.19 | 0.74 | 4.03 | 0.74 |
| | Job Understanding | 4.34 | 0.63 | 3.96 | 0.81 | 3.77 | 0.79 |
| | Career Exploration | 3.92 | 0.85 | 4.06 | 0.79 | 3.69 | 0.80 |
| | Career Design and Readiness | 4.11 | 0.75 | 3.92 | 0.87 | 3.74 | 0.82 |
| | Total | 4.22 | 0.61 | 4.05 | 0.71 | 3.82 | 0.71 |
| 2019 | Self-understanding and Sociability | 4.44 | 0.59 | 4.17 | 0.76 | 4.09 | 0.76 |
| | Job Understanding | 4.35 | 0.63 | 3.92 | 0.82 | 3.87 | 0.82 |
| | Career Exploration | 3.89 | 0.87 | 4.03 | 0.80 | 3.76 | 0.83 |
| | Career Design and Readiness | 4.11 | 0.77 | 3.88 | 0.88 | 3.81 | 0.83 |
| | Total | 4.21 | 0.61 | 4.02 | 0.73 | 3.89 | 0.74 |

Note: 1) Survey questions for elementary (20 questions), middle (20 questions) and high school (21 questions) students were developed based on school career education goals and achievement standards

2) Results were driven using questions of different standards for each school level, making school level comparisons meaningless

3) Sum of each questions divided by number of questions and transferred to 5 point scale average

Source: Ministry of Education · Korea Research Institute for Vocational Education and Training, 2015 School Career Education Fact-finding Survey

Ministry of Education · Jeollabukdo Office of Education · Korea Research Institute for Vocational Education and Training, 2016 Career Education Status Survey

Ministry of Education · Jeollabukdo Office of Education · Korea Research Institute for Vocational Education and Training, 2017 Elementary and Middle School Career Education Status Survey

Ministry of Education · Korea Research Institute for Vocational Education and Training, 2018, 2019 Elementary and Middle School Career Education Status Survey

2020

Human Resources
Development Indicators
in Korea

V. Qualifications



1. National Technical Qualifications Status
2. Private Qualifications and National Competency Standards Development Status

1. National Technical Qualifications Status

1) Qualifications in Korea

| Classification | | Number of Categories | Exam Entrusted/Administrating Institution | Note |
|---|-------------------|---|---|--|
| National Technical Qualifications | | 542 | Human Resources Development Service of Korea Korea Chamber of Commerce and Industry Korea Institute of Nuclear Safety Korean Film Commission Korea Creative Content Agency Korea Communications Agency Korea Mine Reclamation Corporation Korea Internet and Security Agency | As of Dec. 2018 (* Occupational Fields: 26) |
| National Qualifications | | 177 (Occupation Type) | Human Resources Development Service of Korea, Korea Transportation Safety Authority, Korea National Health Personnel Licensing Examination Board, etc. (entrusted by ministries · offices · commissions) | As of Dec. 2018 |
| Private Qualifications | Registered | 35,304 | Private institutions including Korea Productivity Center, Korea Banking Institute, Korea Foreign Language Skills Assessment Center | As of Dec. 2018 |
| | Official Approval | 97 (Occupation Type) | 58 Private institutions including Korea Chamber of Commerce and Industry, Samsung SDS, Korea Productivity Center | As of Dec. 2018 |
| Qualifications in the Company (Recognized by the Ministry of Employment and Labor) | | Digital Consultant etc. 177 Category (No. of Qualifications) | 81 companies(institutions) including LG Electronics, etc. | As of Dec. 2018 |

Source: Ministry of Employment and Labor (2019), Vocational Skills Development Program Status

2) National Technical Qualifications: Qualifications Category by Ministries

(Unit: Number)

| Ministry | Grade | Total | Professional Engineer | Master Craftsman | Engineer | Industrial Engineer | Craftsman | Service Areas | | | |
|--|-------|---------|-----------------------|------------------|----------|---------------------|-----------|---------------|---------|---------|--------|
| | | | | | | | | Grade 1 | Grade 2 | Grade 3 | Single |
| Total | | 542(13) | 84(2) | 28 | 116(3) | 121(3) | 161(3) | 10 | 10 | 3 | 9(2) |
| 1. Ministry of Food and Drug Safety | | 21(2) | 2 | 2 | 1(1) | 6 | 10(1) | - | - | - | - |
| 2. Statistics Korea | | 2 | - | - | - | - | - | 1 | 1 | - | - |
| 3. Ministry of Science and ICT | | 64 | 22 | 1 | 15 | 13 | 12 | - | - | - | 1 |
| 4. Ministry of National Defense | | 3 | - | - | 1 | 1 | 1 | - | - | - | - |
| 5. Ministry of Public Safety and Security | | 4 | - | - | 2 | 1 | 1 | - | - | - | - |
| 6. Korea National Police Agency | | 6 | 1 | - | 2 | 2 | 1 | - | - | - | - |
| 7. National Fire Agency | | 10 | 1 | 1 | 3 | 4 | 1 | - | - | - | - |
| 8. Ministry of Culture, Sports and Tourism | | 9(2) | - | - | - | 1 | 2 | 1 | 1 | - | 4(2) |
| 9. Ministry of Agriculture, Food and Rural Affairs | | 15(1) | 2 | - | 5(1) | 4 | 4 | - | - | - | - |
| 10. Rural Development Administration | | 17 | 3 | - | 5 | 4 | 5 | - | - | - | - |
| 11. Korea Forest Service | | 10 | 1 | - | 3 | 2 | 4 | - | - | - | - |
| 12. Ministry of Trade, Industry and Energy | | 91(4) | 11 | 5 | 27 | 23(3) | 23(1) | 1 | 1 | - | - |
| 13. Ministry of Health and Welfare | | 14 | - | 2 | 1 | 1 | 7 | 1 | 1 | - | 1 |
| 14. Ministry of Environment | | 21(2) | 5(1) | - | 9(1) | 6 | 1 | - | - | - | - |
| 15. Korea Meteorological Administration | | 3 | 1 | - | 2 | - | - | - | - | - | - |

(Table continued)

| Ministry | Grade | Total | Professional Engineer | Master Craftsman | Engineer | Industrial Engineer | Craftsman | Service Areas | | | |
|--|-------|-------|-----------------------|------------------|----------|---------------------|-----------|---------------|---------|---------|--------|
| | | | | | | | | Grade 1 | Grade 2 | Grade 3 | Single |
| 16. Ministry of Employment and Labor | | 111 | 6 | 11 | 13 | 24 | 41 | 5 | 5 | 3 | 3 |
| 17. Ministry of Land, Infrastructure and Transport | | 118 | 25 | 5 | 20 | 24 | 44 | - | - | - | - |
| 18. Ministry of Oceans and Fisheries | | 21(2) | 4(1) | 1 | 7 | 5 | 4(1) | - | - | - | - |
| 19. Fair Trade Commission | | 2 | - | - | - | - | - | 1 | 1 | - | - |

Note: Based on administered categories as of December 2018. () indicates jointly in charge categories

- Multimedia Contents Creation Specialist: Ministry of Science and ICT, Ministry of Culture, Sports and Tourism
- Professional Engineer · Engineer Soil Environment: Ministry of Agriculture, Food and Rural Affairs, Ministry of Environment
- International Medical Tourism Coordinator: Ministry of Health and Welfare, Ministry of Culture, Sports and Tourism
- Industrial Engineer Computer Maintenance Control, Industrial Engineer Office Automation: Ministry of Science and ICT, Ministry of Trade, Industry and Energy
- Professional Engineer · Engineer Fisheries Processing: Ministry of Oceans and Fisheries, Ministry of Food and Drug Safety
- Craftsman Fabrication of Meats: Ministry of Agriculture, Food and Rural Affairs, Ministry of Food and Drug Safety
- Craftsman Container Crane Operation: Ministry of Land, Infrastructure and Transport(Outer harbor area), Ministry of Oceans and Fisheries(Inner harbor area)
- Industrial Engineer 3D Printer Development, Craftsman 3D Printer Operation: Ministry of Science and ICT, Ministry of Trade, Industry and Energy
- Engineer Meat Processing: Ministry of Agriculture, Food and Rural Affairs, Ministry of Food and Drug Safety

Source: Ministry of Employment and Labor(2019). Vocational Skills Development Program Status

3) National Technical Qualifications by Occupational Field

(Unit: Number)

| Ministry | Grade | Total | Professional Engineer | Master Craftsman | Engineer | Industrial Engineer | Craftsman | Service Areas | | | |
|---|-------|-------|-----------------------|------------------|----------|---------------------|-----------|---------------|---------|---------|--------|
| | | | | | | | | Grade 1 | Grade 2 | Grade 3 | Single |
| Total | | 542 | 84 | 28 | 117 | 120 | 161 | 10 | 10 | 3 | 9 |
| 1. Business Management | | - | - | - | - | - | - | - | - | - | - |
| 2. Business, Accounting, Administration | | 25 | 3 | - | 2 | 2 | - | 7 | 7 | 3 | 1 |
| 3. Finance, Insurance | | - | - | - | - | - | - | - | - | - | - |
| 4. Education, Natural Sciences, Social Sciences | | - | - | - | - | - | - | - | - | - | - |
| 5. Legal, Police, Fire Protection, Prison, National Defense | | - | - | - | - | - | - | - | - | - | - |
| 6. Health, Medical | | 3 | - | - | - | - | - | 1 | 1 | - | 1 |
| 7. Social Welfare, Religion | | 2 | - | - | - | - | - | 1 | 1 | - | - |
| 8. Culture, Art, Design, Media | | 13 | 1 | - | 4 | 4 | 4 | - | - | - | - |
| 9. Driving, Transport | | 2 | - | - | - | 1 | 1 | - | - | - | - |
| 10. Sales | | 4 | - | - | - | - | - | 1 | 1 | - | 2 |
| 11. Security Guard, Cleaning | | - | - | - | - | - | - | - | - | - | - |
| 12. Beauty, Accommodation, Travel, Leisure, Sports | | 8 | - | 2 | - | - | 5 | - | - | - | 1 |
| 13. Food Services | | 12 | - | 1 | - | 5 | 6 | - | - | - | - |
| 14. Construction | | 98 | 21 | 4 | 17 | 17 | 39 | - | - | - | - |
| 15. Mining and Quarrying Resources | | 11 | 3 | - | 3 | 2 | 3 | - | - | - | - |
| 16. Machinery | | 79 | 10 | 5 | 16 | 19 | 29 | - | - | - | - |
| 17. Materials | | 38 | 6 | 8 | 2 | 6 | 16 | - | - | - | - |
| 18. Chemical | | 12 | 1 | 1 | 5 | 3 | 2 | - | - | - | - |
| 19. Textile, Clothing | | 17 | 2 | - | 2 | 6 | 7 | - | - | - | - |
| 20. Electricity, Electronics | | 39 | 7 | 2 | 12 | 10 | 8 | - | - | - | - |
| 21. Information and Communications | | 31 | 3 | 1 | 8 | 8 | 7 | - | - | - | 4 |
| 22. Food Processing | | 11 | 2 | 1 | 3 | 1 | 4 | - | - | - | - |

(Table continued)

| Ministry | Grade | Total | Professional Engineer | Master Craftsman | Engineer | Industrial Engineer | Craftsman | Service Areas | | | |
|------------------------------------|-------|-------|-----------------------|------------------|----------|---------------------|-----------|---------------|---------|---------|--------|
| | | | | | | | | Grade 1 | Grade 2 | Grade 3 | Single |
| 23. Print, Wood, Furniture, Crafts | | 19 | — | 1 | 1 | 6 | 11 | — | — | — | — |
| 24. Agriculture, Forestry, Fishery | | 39 | 7 | — | 11 | 10 | 11 | — | — | — | — |
| 25. Safety Management | | 42 | 9 | 1 | 16 | 11 | 5 | — | — | — | — |
| 26. Environment, Energy | | 37 | 9 | 1 | 15 | 9 | 3 | — | — | — | — |

Note: As of December 2018

'26.environment · energy' 3 category (korea institute of nuclear safety), '8.culture · art · design · media' 2 categories(korean film council), '2.business · accounting · administration(12), 10.sales(3)' 15 category(korea chamber of commerce and industry), '21.information and communications' 3 category(korea creative content agency), '21.information and communications' 16 category(korea communications agency), 2 category(korea internet and security agency), '15.mining and quarrying resources' 7 category(mine reclamation corporation), remaining 494 category administered by Human Resources Development Service of Korea

Source: Ministry of Employment and Labor (2019), Vocational Skills Development Program Status

4) National Technical Qualifications Test Takers

(Units: Person, Percent)

| Year | Total | Year on year | Professional Engineer | Master Craftsman | Engineer | Industrial Engineer | Craftsman | Deputy Craftsman | Office Services |
|------|-----------|--------------|-----------------------|------------------|----------|---------------------|-----------|------------------|-----------------|
| 1997 | 3,838,682 | -3.0 | 28,830 | 2,482 | 358,359 | 463,283 | 1,355,091 | 18,809 | 1,611,828 |
| 1998 | 4,545,119 | 18.4 | 33,459 | 2,968 | 488,177 | 548,073 | 1,792,387 | 34,233 | 1,645,822 |
| 1999 | 5,711,012 | 25.7 | 25,798 | 4,377 | 441,262 | 467,231 | 1,902,109 | 12,109 | 2,858,126 |
| 2000 | 6,150,709 | 7.7 | 22,909 | 5,500 | 367,817 | 397,049 | 1,624,397 | 11,783 | 3,721,254 |
| 2001 | 5,656,910 | -8.0 | 19,477 | 6,839 | 325,840 | 351,472 | 1,608,990 | 14,619 | 3,329,673 |
| 2002 | 5,193,148 | -8.2 | 17,171 | 6,564 | 335,403 | 367,349 | 1,374,786 | - | 3,091,875 |
| 2003 | 4,810,607 | -7.4 | 16,357 | 8,803 | 389,473 | 358,236 | 1,269,736 | - | 2,768,002 |
| 2004 | 4,460,546 | -7.3 | 16,649 | 12,487 | 456,487 | 390,077 | 1,243,986 | - | 2,340,860 |
| 2005 | 4,636,803 | 4.0 | 19,922 | 17,997 | 533,813 | 448,778 | 1,321,210 | - | 2,295,083 |
| 2006 | 4,660,294 | 0.5 | 23,583 | 13,139 | 603,816 | 561,590 | 1,281,299 | - | 2,176,867 |
| 2007 | 4,440,087 | -4.7 | 27,361 | 13,882 | 580,163 | 483,038 | 1,257,155 | - | 2,078,488 |
| 2008 | 3,949,487 | -11.0 | 28,453 | 13,964 | 519,374 | 437,804 | 1,336,872 | - | 1,613,020 |
| 2009 | 4,283,627 | 8.5 | 31,390 | 16,627 | 489,113 | 410,755 | 1,231,138 | - | 1,809,604 |
| 2010 | 3,576,913 | -16.5 | 32,382 | 18,320 | 448,389 | 347,803 | 1,483,806 | - | 1,246,213 |
| 2011 | 3,200,288 | -10.5 | 30,397 | 23,105 | 390,714 | 293,011 | 1,421,160 | - | 1,041,901 |
| 2012 | 2,902,366 | -9.3 | 26,714 | 30,520 | 374,315 | 279,670 | 1,436,147 | - | 755,000 |
| 2013 | 3,272,090 | 12.7 | 22,705 | 30,914 | 413,611 | 290,217 | 1,677,447 | - | 837,196 |
| 2014 | 3,287,804 | 0.5 | 21,079 | 36,632 | 418,710 | 294,053 | 1,658,797 | - | 858,533 |
| 2015 | 3,376,556 | 2.7 | 18,986 | 35,919 | 471,530 | 311,477 | 1,678,766 | - | 859,878 |
| 2016 | 3,378,603 | 0.1 | 20,051 | 40,682 | 514,235 | 311,730 | 1,716,445 | - | 775,460 |
| 2017 | 3,419,994 | 1.2 | 21,271 | 42,208 | 541,670 | 315,696 | 1,706,929 | - | 792,220 |
| 2018 | 3,486,747 | 2.0 | 22,500 | 38,041 | 555,833 | 312,763 | 1,668,426 | 0 | 889,184 |

Note: 1) Limited to persons who have acquired Exam Type National Technical Qualifications

2) Test takers are the sum of written exam test takers and practical exam test takers, and because practical exams are taken after passing the written exams, note that practical exam test takers are double counted

3) Before 2010, the services field was divided into basic work and expert work, but from 2011 was divided into grade 1 · 2 · 3, single categories

4) Deputy Craftsman was repealed since amendment(1998) of Enforcement Decree of the National Technical Qualifications Act, and only shows past status

Data: Human Resources Development Service of Korea, National Technical Qualifications Statistical Yearbook (Annual)

5) National Technical Qualifications Holders

(Units: Person, Percent)

| Year | Total | Year on year | Professional Engineer | Master Craftsman | Engineer | Industrial Engineer | Craftsman | Deputy Craftsman | Office Services |
|------|-----------|--------------|-----------------------|------------------|----------|---------------------|-----------|------------------|-----------------|
| 1997 | 642,708 | -4,0 | 2,454 | 375 | 46,968 | 48,837 | 313,997 | 13,455 | 216,622 |
| 1998 | 790,225 | 23,0 | 2,540 | 476 | 55,424 | 60,065 | 403,048 | 24,489 | 244,153 |
| 1999 | 1,042,401 | 31,9 | 2,041 | 673 | 65,339 | 61,385 | 472,928 | 9,454 | 430,581 |
| 2000 | 1,167,223 | 12,0 | 2,006 | 689 | 47,570 | 50,145 | 406,302 | 8,957 | 651,554 |
| 2001 | 1,230,989 | 3,7 | 1,642 | 754 | 50,176 | 54,144 | 405,765 | 11,831 | 706,677 |
| 2002 | 1,197,655 | -2,7 | 1,382 | 832 | 63,875 | 57,659 | 356,282 | - | 717,625 |
| 2003 | 1,110,557 | -7,3 | 1,227 | 1,113 | 73,087 | 62,044 | 350,075 | - | 623,011 |
| 2004 | 1,047,006 | -5,7 | 1,167 | 1,458 | 87,250 | 71,682 | 349,739 | - | 535,650 |
| 2005 | 1,080,461 | 3,2 | 1,388 | 2,997 | 102,264 | 91,417 | 356,926 | - | 525,469 |
| 2006 | 1,100,239 | 2,6 | 1,676 | 1,671 | 119,355 | 117,918 | 333,676 | - | 525,943 |
| 2007 | 1,008,833 | -8,3 | 1,806 | 1,751 | 80,484 | 90,551 | 329,188 | - | 505,053 |
| 2008 | 834,963 | -17,2 | 1,905 | 1,654 | 66,507 | 73,432 | 345,041 | - | 346,424 |
| 2009 | 856,689 | 2,6 | 2,096 | 1,977 | 68,329 | 64,821 | 387,335 | - | 332,141 |
| 2010 | 750,220 | -12,4 | 1,929 | 2,342 | 53,814 | 49,310 | 365,391 | - | 277,434 |
| 2011 | 633,766 | -15,5 | 1,638 | 3,061 | 55,326 | 43,553 | 345,434 | - | 184,724 |
| 2012 | 530,200 | -16,3 | 1,407 | 3,556 | 51,292 | 40,815 | 308,427 | - | 124,703 |
| 2013 | 585,726 | 12,4 | 1,358 | 3,837 | 57,331 | 41,660 | 356,128 | - | 135,412 |
| 2014 | 589,170 | -1,1 | 1,084 | 3,654 | 54,060 | 46,634 | 339,584 | - | 144,154 |
| 2015 | 647,622 | 9,9 | 1,079 | 3,677 | 73,627 | 49,178 | 373,022 | - | 147,089 |
| 2016 | 689,520 | 3,4 | 1,350 | 6,589 | 82,070 | 48,963 | 392,778 | - | 137,769 |
| 2017 | 676,122 | 1,0 | 1,624 | 6,336 | 83,274 | 49,077 | 400,273 | - | 135,538 |
| 2018 | 686,391 | 1,5 | 1,919 | 4,862 | 89,380 | 51,538 | 399,144 | - | 139,548 |

- Note: 1) Limited to persons who have acquired Exam Type National Technical Qualifications
2) Qualification holders include those deceased and those imposed administrative dispositions (cancellations)
3) Before 2010, the services field was divided into basic work and expert work, but from 2011 was divided into grade 1 · 2 · 3, single categories
4) Deputy Craftsman was repelled since amendment (1998) of Enforcement Decree of the National Technical Qualifications Act, and only shows past status
5) Qualification holders include those who passed the practical test and those who acquired qualifications without taking the test in accordance with the 'National Technical Qualifications Act.'
6) For recent three years, there may be errors depending on the time of information collection

Data: Human Resources Development Service of Korea, National Technical Qualifications Statistical Yearbook (Annual)

6) National Technical Qualification Holders by Gender and Year

(Unit: Person)

| Category | Gender | 1975–2012 | 2013 | 2014 | 2015 | 2016 | 2017 | 2018 |
|-----------------------|--------|------------|---------|---------|---------|---------|---------|---------|
| Total | Total | 25,744,340 | 595,727 | 589,170 | 647,622 | 669,520 | 676,122 | 686,391 |
| | Female | 7,515,191 | 235,204 | 226,010 | 252,199 | 248,294 | 242,855 | 249,359 |
| Professional Engineer | Total | 42,712 | 1,358 | 1,084 | 1,079 | 1,350 | 1,624 | 1,919 |
| | Female | 994 | 87 | 59 | 70 | 83 | 66 | 129 |
| Master Craftsman | Total | 27,974 | 3,837 | 3,654 | 3,677 | 6,589 | 6,336 | 4,862 |
| | Female | 1,200 | 149 | 179 | 178 | 265 | 252 | 230 |
| Engineer | Total | 1,479,531 | 57,331 | 54,060 | 73,627 | 82,070 | 83,274 | 89,380 |
| | Female | 311,149 | 14,298 | 12,862 | 18,297 | 19,748 | 17,161 | 21,475 |
| Industrial Engineer | Total | 1,704,164 | 41,660 | 46,634 | 49,178 | 48,963 | 49,077 | 51,538 |
| | Female | 408,397 | 12,179 | 13,934 | 13,292 | 10,745 | 9,308 | 10,040 |
| Craftsman | Total | 9,420,877 | 356,129 | 339,584 | 373,022 | 392,779 | 400,273 | 399,144 |
| | Female | 2,976,903 | 128,506 | 112,691 | 132,677 | 135,385 | 135,466 | 132,213 |
| Deputy Craftsman | Total | 400,251 | – | – | – | – | – | – |
| | Female | 28,071 | – | – | – | – | – | – |
| Services | Total | 12,668,831 | 135,412 | 144,154 | 147,039 | 137,769 | 135,538 | 139,548 |
| | Female | 3,788,477 | 79,985 | 86,285 | 87,685 | 82,068 | 80,602 | 85,272 |

Note: 1) Limited to persons who have acquired Exam Type National Technical Qualifications

2) Qualification holders include those deceased and those imposed administrative dispositions(cancellations)

3) Before 2010, the services field was divided into basic work and expert work, but from 2011 was divided into grade 1 · 2 · 3, single categories

4) Deputy Craftsman was repelled since amendment(1998) of Enforcement Decree of the National Technical Qualifications Act, and only shows past status

5) Qualification holders include those who passed the practical test and those who acquired qualifications without taking the test in accordance with the 'National Technical Qualifications Act.'

Data: Human Resources Development Service of Korea, National Technical Qualifications Statistical Yearbook (Annual)

Source: Korean Statistical Information Service KOSIS (www.kosis.kr), (Search Date: June 4, 2020)

7) Junior College Students National Technical Qualifications Acquisition Status by Field

(Unit: Person)

| Year | Total | Humanities | Social Sciences | Education | Natural Sciences | Engineering | Medical Sciences & Pharmacy | Arts & Physical Education |
|------|--------|------------|-----------------|-----------|------------------|-------------|-----------------------------|---------------------------|
| 1997 | 38,801 | 664 | 7,340 | 743 | 18,648 | — | 10,845 | 561 |
| 1998 | 46,021 | 1,087 | 8,314 | 1,335 | 21,490 | — | 12,699 | 1,096 |
| 1999 | 47,349 | 1,009 | 8,840 | 1,990 | 22,188 | — | 11,903 | 1,419 |
| 2000 | 62,362 | 1,043 | 13,152 | 2,197 | 29,786 | — | 12,749 | 3,435 |
| 2001 | 60,746 | 1,270 | 12,064 | 2,362 | 29,484 | — | 12,128 | 3,438 |
| 2002 | 66,367 | 1,585 | 13,629 | 3,771 | 31,509 | — | 10,908 | 4,965 |
| 2003 | 65,269 | 2,075 | 13,128 | 3,179 | 27,778 | — | 11,956 | 7,045 |
| 2004 | 61,860 | 1,964 | 12,560 | 1,483 | 23,643 | — | 13,745 | 8,465 |
| 2005 | 61,509 | 1,318 | 10,787 | 2,886 | 24,327 | — | 13,997 | 8,194 |
| 2006 | 41,590 | 744 | 5,895 | 910 | 27,959 | — | 2,858 | 3,224 |
| 2007 | 31,771 | 696 | 7,095 | 897 | 3,805 | 9,491 | 3,955 | 5,832 |
| 2008 | 32,075 | 731 | 8,824 | 2,586 | 3,169 | 7,262 | 3,888 | 5,615 |
| 2009 | 25,359 | 504 | 7,162 | 1,488 | 2,971 | 6,137 | 3,452 | 3,645 |
| 2010 | 22,368 | 490 | 7,278 | 1,044 | 2,549 | 4,953 | 3,075 | 2,979 |
| 2011 | 18,227 | 341 | 5,414 | 622 | 2,701 | 4,374 | 2,297 | 2,478 |
| 2012 | 21,618 | 588 | 6,181 | 886 | 2,836 | 4,296 | 3,681 | 3,150 |
| 2013 | 16,159 | 404 | 4,749 | 571 | 2,878 | 3,984 | 1,476 | 2,147 |
| 2014 | 14,056 | 197 | 4,570 | 317 | 2,443 | 4,020 | 720 | 1,789 |
| 2015 | 11,078 | 99 | 2,394 | 267 | 2,048 | 4,139 | 776 | 1,355 |
| 2016 | 9,994 | 57 | 2,268 | 460 | 1,678 | 3,652 | 952 | 927 |
| 2017 | 9,538 | 72 | 1,922 | 216 | 1,500 | 3,734 | 1,143 | 951 |
| 2018 | 9,169 | 107 | 1,820 | 308 | 1,182 | 3,683 | 1,173 | 896 |
| 2019 | 9,228 | 84 | 1,567 | 257 | 1,208 | 3,711 | 1,477 | 924 |

Note: 1) Korea National Technical Qualifications acquired by junior college students' represent the basic data that details the level of human resource development of junior college students

2) As of 2007 the name 'instructor' changed to 'education,' while the natural sciences was divided into the natural sciences and engineering

Source: Ministry of Education, Statistics Yearbook of Education (Annual)

8) National Technical Qualification Holders by Course

(Unit: Person)

| Categories | Gender | 2015 | 2016 | 2017 | 2018 | 2019 |
|----------------------|--------|------|------|-------|-------|-------|
| Total | Total | 51 | 671 | 1,640 | 3,238 | 4,280 |
| | Female | 1 | 207 | 757 | 1,642 | 1,999 |
| Engineers | Total | - | - | 1 | 20 | 78 |
| | Female | - | - | 0 | 2 | 7 |
| Industrial Engineers | Total | 10 | 179 | 478 | 1,076 | 1,730 |
| | Female | 0 | 9 | 72 | 179 | 332 |
| Technicians | Total | 41 | 476 | 1,135 | 1,875 | 2,140 |
| | Female | 1 | 185 | 667 | 1,250 | 1,398 |
| Services | Total | 0 | 16 | 26 | 267 | 332 |
| | Female | 0 | 13 | 18 | 211 | 262 |

Note: Limited to course-based national technical qualification holders

* Course-based qualifications: national technical qualification obtained by faithfully completing designated education and training courses organized and operated in accordance with the National Competency Standards (NCS) and meeting the acceptance criteria through internal and external evaluations

* Effective 2015 in accordance with the revision of the National Technical Qualifications Act (May 14, 2020) and its Enforcement Decree (November 21, 2014)

Source: Human Resources Development Service of Korea, National Technical Qualifications Statistical Yearbook (2019), KOSIS (www.kosis.kr), (Search Date: June 4, 2020)

2. Private Qualifications and National Competency Standards Development Status

1) Private Qualifications Registration Status by Year

(Unit: Number)

| Year | Total Registered Categories (No. of Institutions) | No. of Repelled Qualifications | No. of Revoked Qualifications | No. of Current Qualifications |
|-------|--|--------------------------------|-------------------------------|-------------------------------|
| 2008 | 655 (259) | – | – | 655 |
| 2009 | 380 (141) | – | – | 380 |
| 2010 | 539 (227) | 10 | – | 529 |
| 2011 | 1,053 (398) | 2 | – | 1,051 |
| 2012 | 1,453 (494) | 7 | – | 1,446 |
| 2013 | 2,748 (754) | 36 | – | 2,712 |
| 2014 | 6,253 (1,632) | 223 | – | 6,030 |
| 2015 | 6,521 (1,971) | 1,400 | 11 | 5,110 |
| 2016 | 6,153 (2,041) | 932 | 1 | 5,220 |
| 2017 | 6,302 (2,139) | 1,357 | 1 | 4,944 |
| 2018 | 5,849 (2,238) | 2,315 | – | 3,534 |
| 2019 | 6,869 (2,655) | 1,856 | – | 5,013 |
| 2020 | 1,727 (945) | 244 | – | 1,483 |
| Total | 46,502 | 8,382 | 13 | 38,107 |

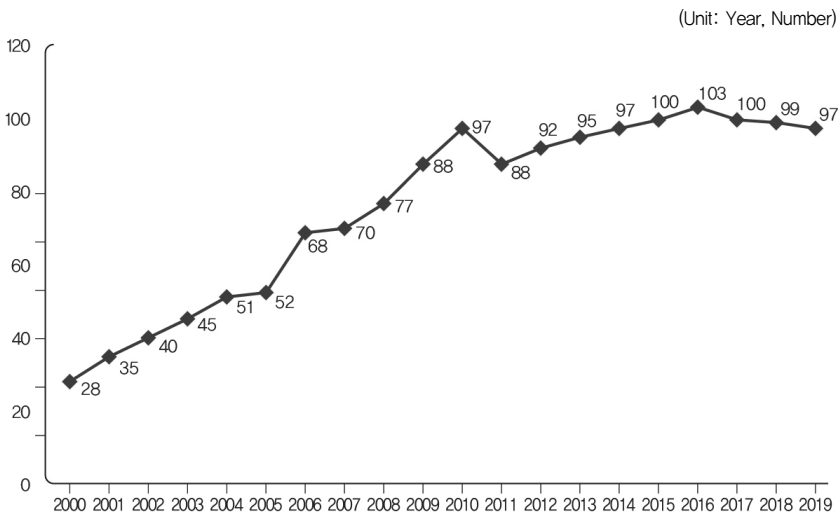
Note: 1) As of March 31, 2020

2) Current number of registered qualifications (excluding repealed/cancelled categories) is 38,107

3) Total number of institutions excluding duplications (with more than two qualifications registered) is 9,469

Source: Private Qualifications Information Services (www.pqi.or.kr), DB, Internal Analysis

2) Officially Approved Private Qualifications Accumulated Total by Year



Source: Ministry of Education, Korea Research Institute for Vocational Education and Training (2019), 2019 Officially Approved Private Qualifications Statistical Yearbook

3) Types of Private Qualifications Management

(Unit : Number)

| Classification | Total | Corporation | | | | Individual | Organization |
|----------------|-------|-------------|------------|------------------|-------|------------|--------------|
| | | For-Profit | Non-Profit | Special Juristic | Other | | |
| Registered | 9,469 | 1,804 | 1,989 | 128 | 13 | 3,306 | 2,229 |
| Accredited | 59 | 11 | 43 | 4 | 1 | — | — |

Note: 1) As of March 31, 2020

2) Special juristic person: school juristic person, cooperatives, forestry association, etc.

3) Other corporation: domestic branches of foreign companies

Source: Private Qualifications Information Services (www.pqi.or.kr) DB, Internal Analysis

4) Registered Qualifications by Ministries

(Unit : Number)

| Ministry | Registered Qualifications | Accredited Qualifications | Ministry | Registered Qualifications | Accredited Qualifications |
|---|---------------------------|---------------------------|------------------------------------|---------------------------|---------------------------|
| Ministry of Culture, Sports, and Tourism | 12,194 | 5 | Ministry of Economy and Finance | 83 | 8 |
| Ministry of Education | 9,206 | 20 | Rural Development Administration | 49 | — |
| Ministry of Health and Welfare | 5,426 | 3 | Ministry of National Defense | 39 | — |
| Ministry of Agriculture, Food and Rural Affairs | 3,421 | 2 | Cultural Heritage Administration | 34 | — |
| Ministry of Trade, Industry and Energy | 1,912 | 8 | Ministry of Justice | 31 | 1 |
| Ministry of Science and ICT | 1,279 | 21 | National Fire Agency | 20 | — |
| Ministry of Gender Equality and Family | 878 | — | Public Procurement Service | 16 | — |
| Ministry of Land, Infrastructure and Transport | 676 | 3 | Statistics Korea | 14 | — |
| Ministry of Employment and Labor | 570 | 1 | Korea Intellectual Property Office | 14 | 1 |
| Ministry of the Interior and Safety | 543 | 3 | National Tax Service | 10 | — |
| Ministry of Food and Drug Safety | 513 | 1 | Korea Customs Service | 9 | 1 |

(Table continued)

| Ministry | Registered Qualifications | Accredited Qualifications | Ministry | Registered Qualifications | Accredited Qualifications |
|----------------------------------|---------------------------|---------------------------|---|---------------------------|---------------------------|
| Ministry of Environment | 258 | – | Fair Trade Commission | 7 | – |
| Korea Forest Service | 246 | 3 | Korea Communications Commissions | 6 | – |
| Korea Coast Guard | 183 | – | Ministry of Unification | 5 | – |
| Korea National Police Agency | 125 | 3 | Ministry of Patriots and Veterans Affairs | 3 | – |
| Ministry of SMEs and Startups | 120 | – | Ministry of Foreign Affairs | 2 | – |
| Ministry of Oceans and Fisheries | 111 | – | Anti-Corruption & Civil Rights Commission | 1 | – |
| Financial Services Commissions | 102 | 11 | Ministry of Personnel Management | 1 | – |

Note: 1) As of March 31, 2020

2) Private qualifications registration status by ministries (excluding repealed/cancelled): 36 ministries, 38,107 categories

3) Accredited private qualifications registration status by ministries (excluding repealed/cancelled): 17 ministries, 95 categories

Source: Private Qualifications Information Services (www.pqi.or.kr) DB, Internal Analysis

5) National Competency Standards Development Status (Large Category Basis)

(Unit: Number)

| Category | Sub Category | Section | Sub Section | 2013 Development | 2014 Development | | 2015 Development | | 2016 Development | | 2017 Development | | 2018 Development | |
|--|--------------|---------|-------------|------------------|------------------|--------|------------------|--------|------------------|--------|------------------|--------|------------------|--------|
| | | | | | Development | Update | Development | Update | Development | Update | Development | Update | Development | Update |
| 24 | 79 | 253 | 1,001 | 240 | 288 | 269 | 50 | 79 | 50 | 403 | 50 | 191 | 50 | 103 |
| 01. Business Management | 1 | 2 | 5 | 0 | 0 | 0 | 5 | 0 | 0 | 1 | 0 | 2 | 0 | 0 |
| 02. Business - Accounting - Administration | 4 | 11 | 27 | 11 | 6 | 8 | 2 | 7 | 0 | 11 | 0 | 4 | 0 | 3 |
| 03. Finance - Insurance | 2 | 9 | 36 | 0 | 35 | 0 | 0 | 6 | 0 | 19 | 1 | 0 | 0 | 0 |
| 04. Education - Natural Sciences - Social Sciences | 2 | 3 | 8 | 0 | 6 | 2 | 0 | 0 | 0 | 8 | 0 | 0 | 0 | 1 |
| 05. Legal - Police - Fire Prevention - Prison - National Defense | 2 | 4 | 16 | 7 | 5 | 0 | 0 | 0 | 1 | 7 | 3 | 2 | 0 | 0 |
| 06. Health - Medical | 1 | 2 | 11 | 9 | 2 | 0 | 0 | 1 | 0 | 2 | 0 | 5 | 0 | 0 |
| 07. Social Welfare - Religion | 3 | 6 | 17 | 5 | 5 | 3 | 3 | 0 | 0 | 6 | 1 | 5 | 0 | 2 |
| 08. Culture - Art - Design - Media | 3 | 9 | 61 | 20 | 22 | 2 | 10 | 9 | 2 | 25 | 3 | 13 | 2 | 3 |
| 09. Driving - Transport | 4 | 8 | 31 | 8 | 16 | 0 | 2 | 0 | 4 | 14 | 0 | 2 | 1 | 0 |
| 10. Sales | 3 | 8 | 18 | 1 | 16 | 0 | 0 | 0 | 1 | 9 | 0 | 2 | 0 | 0 |
| 11. Security Guard - Cleaning | 2 | 3 | 6 | 0 | 4 | 0 | 2 | 0 | 0 | 4 | 0 | 0 | 0 | 1 |
| 12. Beauty - Accommodation - Travel - Game - Sports | 4 | 12 | 46 | 17 | 21 | 4 | 0 | 3 | 0 | 32 | 0 | 8 | 4 | 7 |
| 13. Food Services | 1 | 3 | 10 | 3 | 0 | 5 | 1 | 3 | 1 | 8 | 0 | 2 | 0 | 1 |

(Table continued)

| Category | Sub Category | Section | Sub Section | 2013 Development | 2014 Development | | 2015 Development | | 2016 Development | | 2017 Development | | 2018 Development | |
|---------------------------------------|--------------|---------|-------------|------------------|------------------|--------|------------------|--------|------------------|--------|------------------|--------|------------------|--------|
| | | | | | Development | Update | Development | Update | Development | Update | Development | Update | Development | Update |
| 14, Construction | 8 | 27 | 128 | 25 | 23 | 54 | 7 | 4 | 4 | 28 | 4 | 14 | 8 | 19 |
| 15, Machinery | 11 | 33 | 134 | 17 | 29 | 67 | 2 | 16 | 10 | 38 | 3 | 29 | 6 | 16 |
| 16, Materials | 2 | 8 | 39 | 2 | 10 | 22 | 0 | 1 | 1 | 23 | 1 | 4 | 3 | 5 |
| 17, Chemical | 4 | 12 | 40 | 22 | 8 | 1 | 1 | 0 | 2 | 21 | 4 | 11 | 1 | 2 |
| 18, Textile - Clothing | 2 | 7 | 24 | 8 | 0 | 14 | 1 | 5 | 1 | 16 | 0 | 3 | 0 | 11 |
| 19, Electricity - Electronics | 3 | 33 | 103 | 14 | 25 | 24 | 9 | 17 | 12 | 34 | 9 | 23 | 10 | 9 |
| 20, Information and Communications | 3 | 15 | 88 | 25 | 4 | 27 | 2 | 4 | 6 | 28 | 12 | 27 | 12 | 3 |
| 21, Food Processing | 2 | 4 | 21 | 14 | 4 | 2 | 0 | 0 | 0 | 11 | 1 | 6 | 0 | 3 |
| 22, Print - Wood - Furniture - Crafts | 2 | 4 | 25 | 0 | 4 | 19 | 0 | 1 | 1 | 19 | 1 | 2 | 0 | 4 |
| 23, Environment - Energy - Safety | 6 | 18 | 55 | 10 | 33 | 5 | 1 | 2 | 3 | 20 | 2 | 14 | 1 | 10 |
| 24, Farming, Forestry, Fisheries | 4 | 12 | 52 | 22 | 10 | 10 | 2 | 0 | 1 | 19 | 5 | 13 | 2 | 3 |

Note: 2018 year end basis

Source: Ministry of Employment and Labor (2019), Vocational Skills Development Program Status

Research Material 2020-37

Human Resources Development Indicators in Korea 2020

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Published December 27, 2020

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Published by Korea Research Institute for Vocational Education Training (KRIVET)
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Phone 82-(0)44-415-5000,5100
Fax 82-(0)44-415-5200
Registration 16-1681(1998. 6. 11)
ISBN 979-11-339-9023-8 93310
Printed by HAN Company +82-2-2269-9917

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