

**Table 3-4 Total Employment by Occupation**

**R.O.C.** Unit : %

Year	Total	Legislators, senior officials & managers	Professionals	Technicians and associate professionals	Clerical support workers	Service and sales workers	Skilled agricultural, forestry and fishery workers	Craft & machine operation related workers
2007	100.00	4.49	10.02	17.92	10.55	19.90	4.98	32.15
2008	100.00	4.45	10.56	18.47	10.34	19.61	4.80	31.77
2009	100.00	4.32	10.70	19.23	10.59	19.60	4.93	30.64
2010	100.00	4.22	10.64	19.01	10.99	19.72	4.88	30.54
2011	100.00	4.06	11.16	18.27	11.09	19.48	4.63	31.30
2012	100.00	3.89	11.46	17.96	11.25	19.51	4.55	31.38
2013	100.00	3.69	11.73	17.89	11.23	19.66	4.49	31.32
2014	100.00	3.56	12.03	17.96	11.23	19.55	4.45	31.22
2015	100.00	3.46	12.23	18.03	11.15	19.48	4.43	31.22
2016	100.00	3.38	12.32	18.01	11.16	19.58	4.43	31.11
2017	100.00	3.38	12.41	18.00	11.20	19.65	4.40	30.96

**S. Korea** Unit : %

Year	Total	Managers	Professionals and Related Workers	Clerks	Service & Sales Workers	Skilled Agricultural, Forestry & Fishing Workers	Craft & related trades workers
2007	100.00	2.56	17.28	14.46	24.32	6.91	34.46
2008	100.00	2.33	18.59	14.79	24.02	6.65	33.63
2009	100.00	2.32	18.83	15.27	23.43	6.48	33.66
2010	100.00	2.36	19.18	15.69	22.52	6.05	34.19
2011	100.00	2.12	19.33	16.47	22.12	5.85	34.11
2012	100.00	1.88	19.41	16.61	22.50	5.77	33.82
2013	100.00	1.62	19.64	16.88	22.61	5.61	33.65
2014	100.00	1.56	19.81	16.89	22.91	5.24	33.60
2015	100.00	1.37	19.82	16.98	22.70	4.75	34.38
2016	100.00	1.27	20.03	17.26	22.76	4.49	34.20
2017	100.00	1.17	20.31	17.45	22.59	4.48	34.01

Source : R.O.C. – Directorate-General of Budget, Accounting and Statistics Executive Yuan (DGBAS), Manpower Survey

S. Korea – Statistics Database – <http://www.kosis.kr/eng/>

Singapore – Singapore Yearbook Of Manpower Statistics 2018

Japan – <http://www.stat.go.jp/english/data/roudou/index.htm>

U.S.A – Current Population Survey (CPS)

Canada – Labour force survey estimates (LFS), by National Occupational Classification (NOC 2011)

Others – Data for 2006 to 2010 from <http://kilm ilo.org/kilmnet/> 2011 to 2017 from ILO Statistics and databases °

**Table 3-4 Total Employment by Occupation (Cont.1)**

**Singapore**

Unit : %

Year	Total	Managers & Senior Officials & Working Proprietors	Professionals	Associate Professionals & Technicians	Clerks	Service & Sales Workers	Production Craftsmen & Related Workers	Plant & Machine Operators & Assemblers	Cleaners, Laborers & Related Workers	Others
2007	100.00	15.46	16.83	16.30	12.72	12.68	5.30	9.25	7.96	3.50
2008	100.00	16.25	17.52	17.22	12.67	12.07	4.90	8.46	7.48	3.42
2009	100.00	16.33	18.05	16.98	12.55	11.93	4.75	8.47	7.54	3.40
2010	100.00	17.08	19.49	15.81	12.25	12.20	4.41	7.86	7.41	3.50
2011	100.00	17.80	17.19	17.56	12.27	12.03	4.48	7.89	7.29	3.48
2012	100.00	16.98	18.00	17.29	12.85	12.63	4.44	7.34	7.12	3.36
2013	100.00	17.00	17.84	18.17	13.03	12.13	4.00	7.18	7.31	3.34
2014	100.00	16.27	17.76	19.44	12.61	11.80	3.91	6.96	7.89	3.37
2015	100.00	16.08	18.29	19.96	12.31	11.91	3.91	6.81	7.46	3.26
2016	100.00	15.00	19.07	21.02	11.13	12.37	3.66	7.02	7.42	3.31
2017	100.00	15.33	20.03	20.73	11.23	11.59	3.49	7.06	7.38	3.17

Note : Residents refer to Singapore Citizens and Permanent Residents. Data are classified based on Singapore Standard Occupation Classification (SSOC) 2015. Data before year 2015 which were coded based on earlier versions of the SSOC were mapped to SSOC 2015 as far as possible to facilitate data comparability.

**Japan**

Unit : %

Year	Total	Manager and official	Professional and technical worker	Clerical and related worker	Sales worker	Protective service worker and service worker	Agricultural, forestry and fishery worker	Worker in transport and communication	Mining worker	Craftsman and manufacturing and construction worker	Labourer	Other Unclassified Occupations
2007	100.00	2.70	14.63	19.68	13.85	12.27	4.20	3.20	0.05	22.47	5.86	1.09
2008	100.00	2.69	14.88	20.23	13.63	12.36	4.13	3.12	0.05	21.94	5.90	1.07

**Japan**

Unit : %

Year	Total	Administrative and managerial workers	Professional and engineering workers	Clerical workers	Sales workers	Service workers	Security workers	Agricultural, forestry and fishery workers	Manufacturing process workers	Transport and machine operation workers	Construction and mining workers	Carrying, cleaning, packaging, and related workers	Other Unclassified Occupations
2009	100.00	2.68	14.95	19.73	14.11	11.70	1.93	4.17	14.87	3.55	4.86	6.56	0.89
2010	100.00	2.57	15.26	19.64	14.13	11.97	1.97	4.02	14.69	3.54	4.75	6.56	0.90
2011	100.00	2.51	15.69	19.62	14.18	11.97	1.96	3.91	14.39	3.55	4.79	6.58	0.85
2012	100.00	2.44	16.11	19.36	13.96	12.09	1.95	3.78	14.39	3.54	4.82	6.60	0.96
2013	100.00	2.27	15.91	19.57	13.63	12.36	1.98	3.63	14.26	3.55	4.79	6.77	1.30
2014	100.00	2.24	16.12	19.59	13.45	12.42	1.98	3.53	14.19	3.50	4.80	6.79	1.40
2015	100.00	2.26	16.53	19.70	13.38	12.34	1.96	3.48	13.85	3.40	4.67	6.98	1.44
2016	100.00	2.27	16.78	19.83	13.23	12.45	1.96	3.36	13.61	3.37	4.62	7.08	1.42
2017	100.00	2.21	17.01	19.83	13.20	12.37	1.90	3.32	13.61	3.35	4.62	7.11	1.45

Note : 2011 yearly average are Supplementary-estimated figures (Referential figures:2010-census base) results for whole Japan were missing due to the damage caused by the Great East Japan Earthquake.

**Table 3-4 Total Employment by Occupation (Cont.2)**

**U.S.A.**

Unit : %

Year	Total	Management, Business, & Financial Operations Occupations	Professional & Related Occupations	Office & Administrative Support Occupations	Service & Sales Occupations	Farming, Fishing, & Forestry Occupations	Construction, Production, Transportation, & Material Moving Occupations
2007	100.00	14.77	20.69	13.36	27.96	0.66	22.56
2008	100.00	15.18	21.12	13.24	28.03	0.68	21.75
2009	100.00	15.39	21.94	12.97	28.77	0.66	20.27
2010	100.00	15.06	22.15	12.98	28.78	0.71	20.33
2011	100.00	15.44	22.13	12.68	28.68	0.72	20.35
2012	100.00	15.92	22.02	12.42	28.72	0.70	20.23
2013	100.00	15.84	22.18	12.37	28.75	0.67	20.20
2014	100.00	15.84	22.47	12.15	28.36	0.70	20.48
2015	100.00	16.20	22.74	12.02	27.95	0.72	20.36
2016	100.00	16.47	22.78	11.68	28.17	0.72	20.17
2017	100.00	16.55	23.17	11.58	27.76	0.77	20.17

**Canada**

Unit : %

Year	Total	Management occupations	Business, finance and administrative occupations	Natural and applied sciences and related occupations	Health occupations	Occupations in social science, education, government service and religion	Occupations in art, culture, recreation and sport	Sales and service occupations	Trades, transport and equipment operators and related occupations	Occupations unique to primary industry	Occupations unique to processing, manufacturing and utilities
2007	100.00	10.18	16.27	7.01	5.98	10.29	2.87	24.64	14.60	2.23	5.95
2008	100.00	10.47	16.62	6.95	6.13	10.32	2.88	24.27	14.96	2.06	5.34
2009	100.00	10.42	16.52	6.92	6.40	10.91	2.95	24.61	14.45	2.05	4.78
2010	100.00	10.22	16.39	7.19	6.49	11.00	2.96	24.65	14.37	2.02	4.71
2011	100.00	9.73	16.60	7.18	6.73	10.71	3.00	24.49	14.73	2.04	4.80
2012	100.00	9.79	16.24	7.25	6.81	10.93	2.83	24.46	14.96	2.03	4.70
2013	100.00	9.36	16.09	7.38	6.85	11.04	3.03	24.64	14.79	2.13	4.69
2014	100.00	9.04	16.06	7.58	6.88	11.01	3.06	24.84	14.66	2.17	4.70
2015	100.00	9.05	16.08	7.81	7.12	11.34	2.97	24.46	14.60	1.98	4.59
2016	100.00	8.93	15.94	7.76	7.41	11.47	3.08	24.45	14.26	1.97	4.74
2017	100.00	9.32	16.00	7.77	7.55	11.02	3.08	24.33	14.23	1.99	4.71

**Table 3-4 Total Employment by Occupation (Cont.3)**

**Germany**

Unit : %

Year	Total	Legislators, Senior Officials & Managers	Professionals	Technicians & Associate Professionals	Clerks	Service Workers & Shop & Market Sales Workers	Farming Forestry, Fishery & Animal Husbandry Workers	Craft & Related Trade Worker	Plant Machine Operators & Assemblers	Elementary Occupations	Others
2007	100.0	5.5	14.3	21.3	12.3	12.2	1.9	15.0	7.2	8.4	1.8
2008	100.0	5.7	14.4	21.5	12.3	12.2	1.8	14.9	7.1	8.5	1.7
2009	100.0	5.8	14.9	21.7	12.2	12.3	1.8	14.5	6.7	8.2	1.8
2010	100.0	5.8	15.2	21.9	11.9	12.4	1.8	14.4	6.7	8.2	1.8
2011	100.0	4.9	17.4	20.3	12.1	15.1	1.5	12.4	6.3	8.4	1.4
2012	100.0	4.4	16.7	21.7	13.4	14.2	1.5	13.3	6.2	8.2	0.5
2013	100.0	4.4	16.8	21.9	13.3	14.3	1.5	13.0	6.0	8.2	0.6
2014	100.0	4.4	16.9	22.2	13.1	14.2	1.5	12.9	6.1	8.1	0.6
2015	100.0	4.5	17.2	22.4	12.6	14.3	1.4	12.7	6.1	8.1	0.5
2016	100.0	4.6	17.6	22.3	13.1	14.2	1.3	12.5	6.0	7.9	0.6
2017	100.0	4.6	17.8	22.3	13.0	14.1	1.3	12.4	6.1	7.9	0.5

Note : Data are as at March of each year.

**Italy**

Unit : %

Year	Total	Legislators, Senior Officials & Managers	Professionals	Technicians & Associate Professionals	Clerks	Service Workers & Shop & Market Sales Workers	Farming Forestry, Fishery & Animal Husbandry Workers	Craft & Related Trade Worker	Plant Machine Operators & Assemblers	Elementary Occupations	Others
2007	100.0	8.3	10.0	22.0	10.8	11.6	2.0	16.3	8.9	9.1	1.1
2008	100.0	8.2	10.4	21.1	11.5	11.4	2.2	16.4	8.4	9.4	1.0
2009	100.0	8.0	10.2	20.4	12.2	11.2	2.3	16.5	8.1	10.0	1.1
2010	100.0	7.8	10.0	20.1	12.6	11.3	2.3	16.1	8.0	10.6	1.1
2011	100.0	4.0	13.4	17.5	12.5	16.1	2.5	15.6	7.3	10.1	1.1
2012	100.0	3.7	13.7	17.4	12.5	16.6	2.4	14.8	7.1	10.6	1.2
2013	100.0	3.8	14.2	17.5	12.2	17.0	2.4	14.1	7.0	10.8	1.1
2014	100.0	3.8	14.4	17.5	12.0	17.1	2.3	13.8	7.0	11.1	1.1
2015	100.0	3.8	14.4	17.5	12.0	17.2	2.4	13.5	7.0	11.2	1.1
2016	100.0	3.8	14.6	17.5	12.0	17.5	2.4	13.2	6.8	11.3	1.0
2017	100.0	3.8	14.8	17.5	11.9	17.6	2.3	13.1	6.7	11.1	1.0

**Table 3-4 Total Employment by Occupation (Cont'd)**

**U.K.**

Unit : %

Year	Total	Legislators, Senior Officials & Managers	Profession- -als	Technicians & Associate Profession-al s	Clerks	Service Workers & Shop & Market Sales Workers	Farming Forestry, Fishery & Animal Husbandry Workers	Craft & Related Trade Workers	Plant Machine Operators & Assemblers	Elementary Occupations	Others
2007	100.0	15.0	14.2	12.7	13.3	16.6	1.1	9.4	6.5	10.7	0.6
2008	100.0	15.3	14.2	12.9	12.8	17.0	1.1	9.2	6.3	10.5	0.6
2009	100.0	15.5	14.8	13.0	12.8	17.3	1.2	8.6	6.1	10.2	0.6
2010	100.0	15.3	15.2	12.9	12.6	17.6	1.2	8.5	5.9	10.2	0.7
2011	100.0	10.2	24.0	12.4	10.1	19.0	1.2	8.6	4.9	8.8	0.6
2012	100.0	10.4	23.9	12.8	10.0	18.8	1.2	8.4	5.0	8.9	0.6
2013	100.0	10.7	24.4	12.6	9.8	18.8	1.1	8.4	4.9	8.8	0.5
2014	100.0	10.4	24.5	12.5	9.7	18.8	1.3	8.5	4.8	8.9	0.5
2015	100.0	10.7	24.6	12.4	9.9	18.5	1.2	8.5	4.9	8.8	0.5
2016	100.0	11.0	25.2	12.4	9.4	18.5	1.2	8.2	5.1	8.6	0.5
2017	100.0	11.2	25.0	12.5	9.8	18.2	1.2	8.2	4.9	8.6	0.4