

Is there a social stigma against working wives?

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[Online Appendix](#)

Appendix A: Descriptive statistics

Table 1.1 – Descriptive statistics of the dependent variables

	All working-age (18-65)						Working-age women (18-65)						Working-age men (18-65)					
	Obs	%	Mean	Std. dev.	Min	Max	Obs.	%	Mean	Std. dev.	Min	Max	Obs.	%	Mean	Std. dev.	Min	Max
Dependent variable - 1st stage																		
Not working	326,495	33.9	-	-	-	-	248,331	49.0	-	-	-	-	78,164	17.1	-	-	-	-
Working in agriculture	49,171	5.1	-	-	-	-	5,735	1.1	-	-	-	-	43,436	9.5	-	-	-	-
Working in industry	165,692	17.2	-	-	-	-	42,671	8.4	-	-	-	-	123,021	26.9	-	-	-	-
Working in informal services	197,656	20.5	-	-	-	-	111,068	21.9	-	-	-	-	86,588	18.9	-	-	-	-
Working in formal services	221,855	23.0	-	-	-	-	97,933	19.3	-	-	-	-	123,922	27.1	-	-	-	-
Unspecified activities	3,387	0.4	-	-	-	-	1,081	0.2	-	-	-	-	2,306	0.5	-	-	-	-
Total	964,256	100.0					506,819	100.0					457,437	100.0				
Dependent variables - 2nd stage																		
Mining	329,582	-	0.009	0.096	0	1	248,727	-	0.002	0.040	0	1	80,855	-	0.033	0.179	0	1
Iron and steel	336,487	-	0.030	0.170	0	1	249,282	-	0.004	0.062	0	1	87,205	-	0.104	0.305	0	1
Food processing	347,512	-	0.060	0.238	0	1	258,593	-	0.040	0.195	0	1	88,919	-	0.121	0.326	0	1
Clothing and textiles	337,610	-	0.033	0.178	0	1	255,839	-	0.029	0.169	0	1	81,771	-	0.044	0.205	0	1
Education services	364,579	-	0.104	0.306	0	1	271,897	-	0.087	0.281	0	1	92,682	-	0.157	0.363	0	1
Health services	350,042	-	0.067	0.250	0	1	264,284	-	0.060	0.238	0	1	85,758	-	0.089	0.284	0	1
Financial services	333,052	-	0.020	0.139	0	1	251,713	-	0.013	0.115	0	1	81,339	-	0.039	0.194	0	1
Office workers	389,810	-	0.162	0.369	0	1	284,682	-	0.128	0.334	0	1	105,128	-	0.256	0.437	0	1
Management	348,781	-	0.064	0.245	0	1	256,608	-	0.032	0.177	0	1	92,173	-	0.152	0.359	0	1
Sales	415,398	-	0.214	0.410	0	1	298,792	-	0.169	0.375	0	1	116,606	-	0.330	0.470	0	1
Architects	328,220	-	0.005	0.072	0	1	248,783	-	0.002	0.043	0	1	79,437	-	0.016	0.126	0	1
Lawyers	331,726	-	0.016	0.125	0	1	250,390	-	0.008	0.090	0	1	81,336	-	0.039	0.194	0	1
Accounting	337,640	-	0.033	0.179	0	1	254,578	-	0.025	0.155	0	1	83,062	-	0.059	0.236	0	1
Doctors	330,284	-	0.011	0.106	0	1	249,913	-	0.006	0.079	0	1	80,371	-	0.027	0.163	0	1
Nurses	333,456	-	0.021	0.143	0	1	253,790	-	0.022	0.145	0	1	79,666	-	0.019	0.136	0	1
Secretaries	340,123	-	0.040	0.196	0	1	260,644	-	0.047	0.212	0	1	79,479	-	0.017	0.128	0	1
Waiters	333,527	-	0.021	0.144	0	1	251,172	-	0.011	0.106	0	1	82,355	-	0.051	0.220	0	1
Hairstyling	331,276	-	0.014	0.119	0	1	252,304	-	0.016	0.124	0	1	78,972	-	0.010	0.101	0	1
Dependent variable - 3rd stage																		
Not working	165,940	32.9	-	-	-	-	142,061	54.9	-	-	-	-	23,879	9.7	-	-	-	-
Working in agriculture	30,975	6.1	-	-	-	-	3,147	1.2	-	-	-	-	27,828	11.3	-	-	-	-
Working in industry	91,939	18.2	-	-	-	-	18,552	7.2	-	-	-	-	73,387	29.8	-	-	-	-
Working in informal services	96,436	19.1	-	-	-	-	52,264	20.2	-	-	-	-	44,172	17.9	-	-	-	-
Working in formal services	117,965	23.4	-	-	-	-	42,108	16.3	-	-	-	-	75,857	30.8	-	-	-	-
Unspecified activities	1,788	0.4	-	-	-	-	504	0.2	-	-	-	-	1,284	0.5	-	-	-	-
Total	505,043	100.0					258,636	100.0					246,407	100.0				

Table 1.2 – Descriptive statistics of variables capturing individual characteristics

	All working-age (18-65)						Working-age women (18-65)						Working-age men (18-65)					
	Obs.	%	Mean	Std. dev.	Min	Max	Obs.	%	Mean	Std. dev.	Min	Max	Obs.	%	Mean	Std. dev.	Min	Max
Marital status																		
Married	429,493	44.54	-	-	-	-	223,607	44.12	-	-	-	-	205,886	45.01	-	-	-	-
Free union	168,893	17.52	-	-	-	-	86,285	17.02	-	-	-	-	82,608	18.06	-	-	-	-
Previously married	82,683	8.57	-	-	-	-	58,775	11.6	-	-	-	-	23,908	5.23	-	-	-	-
Single	283,135	29.36	-	-	-	-	138,128	27.25	-	-	-	-	145,007	31.7	-	-	-	-
Education level																		
Primary school or less	212,570	22.04	-	-	-	-	115,635	22.82	-	-	-	-	96,935	21.19	-	-	-	-
Secondary school	267,346	27.73	-	-	-	-	140,283	27.68	-	-	-	-	127,063	27.78	-	-	-	-
High school	215,218	22.32	-	-	-	-	105,624	20.84	-	-	-	-	109,594	23.96	-	-	-	-
Technical career	44,626	4.63	-	-	-	-	31,784	6.27	-	-	-	-	12,842	2.81	-	-	-	-
University degree	223,871	23.22	-	-	-	-	113,192	22.33	-	-	-	-	110,679	24.2	-	-	-	-
Other characteristics																		
Age	964,256	-	38.34	13.31	18	65	506,819	-	38.65	13.27	18	65	457,437	-	37.99	13.35	18	65
Probability weight	964,256	-	310.82	356.73	12	21,408	506,819	-	311.22	359.04	12	21,408	457,437	-	310.37	354.14	12	21,408

Table 1.3 – Descriptive statistics of variables capturing household characteristics

	All working-age (18-65)						Working-age women (18-65)						Working-age men (18-65)					
	Obs.	%	Mean	Std. dev.	Min	Max	Obs.	%	Mean	Std. dev.	Min	Max	Obs.	%	Mean	Std. dev.	Min	Max
Socioeconomic status of the household																		
Low	114,730	11.90	-	-	-	-	59,774	11.79	-	-	-	-	54,956	12.01	-	-	-	-
Medium-low	478,265	49.60	-	-	-	-	250,320	49.39	-	-	-	-	227,945	49.83	-	-	-	-
Medium-high	259,086	26.87	-	-	-	-	137,022	27.04	-	-	-	-	122,064	26.68	-	-	-	-
High	112,175	11.63	-	-	-	-	59,703	11.78	-	-	-	-	52,472	11.47	-	-	-	-
Population size of the household location																		
More than 100,000 inhabitants	582,357	60.39	-	-	-	-	306,411	60.46	-	-	-	-	275,946	60.32	-	-	-	-
Between 15,000 and 99,999	127,526	13.23	-	-	-	-	67,291	13.28	-	-	-	-	60,235	13.17	-	-	-	-
Between 2,500 and 14,999	117,674	12.20	-	-	-	-	62,106	12.25	-	-	-	-	55,568	12.15	-	-	-	-
Less than 2,500 inhabitants	136,699	14.18	-	-	-	-	71,011	14.01	-	-	-	-	65,688	14.36	-	-	-	-
Other household characteristics																		
Household location: urban - rural	964,256	-	0.627	0.484	0	1	506,819	-	0.628	0.483	0	1	457,437	-	0.625	0.484	0	1
Kids in the household (5 years old or less)	964,256	-	0.397	0.678	0	4	506,819	-	0.419	0.692	0	4	457,437	-	0.374	0.662	0	4
Household head sex (female)	964,256	-	0.250	0.433	0	1	506,819	-	0.315	0.465	0	1	457,437	-	0.178	0.382	0	1
Household head age	964,256	-	48.576	13.475	14	98	506,819	-	48.889	13.553	15	98	457,437	-	48.230	13.380	14	98
Household head education																		
Primary school or less	316,967	32.87	-	-	-	-	167,790	33.11	-	-	-	-	149,177	32.61	-	-	-	-
Secondary school	260,929	27.06	-	-	-	-	136,290	26.89	-	-	-	-	124,639	27.25	-	-	-	-
High school	155,899	16.17	-	-	-	-	80,083	15.80	-	-	-	-	75,816	16.57	-	-	-	-
Technical school	45,390	4.71	-	-	-	-	25,950	5.12	-	-	-	-	19,440	4.25	-	-	-	-
University degree	184,315	19.11	-	-	-	-	96,320	19.00	-	-	-	-	87,995	19.24	-	-	-	-
Partner's level of education																		
Primary school or less	136,829	27.09	-	-	-	-	72,492	28.03	-	-	-	-	64,337	26.11	-	-	-	-
Secondary school	155,560	30.80	-	-	-	-	75,981	29.38	-	-	-	-	79,579	32.30	-	-	-	-
High school	91,128	18.04	-	-	-	-	48,168	18.62	-	-	-	-	42,960	17.43	-	-	-	-
Technical school	25,640	5.08	-	-	-	-	8,691	3.36	-	-	-	-	16,949	6.88	-	-	-	-
University degree	95,886	18.99	-	-	-	-	53,304	20.61	-	-	-	-	42,582	17.28	-	-	-	-

Notes:

The variable 'Partner's level of education' is only used in the third stage of the econometric analysis.

For working-age women, it captures their husbands' educational attainment.

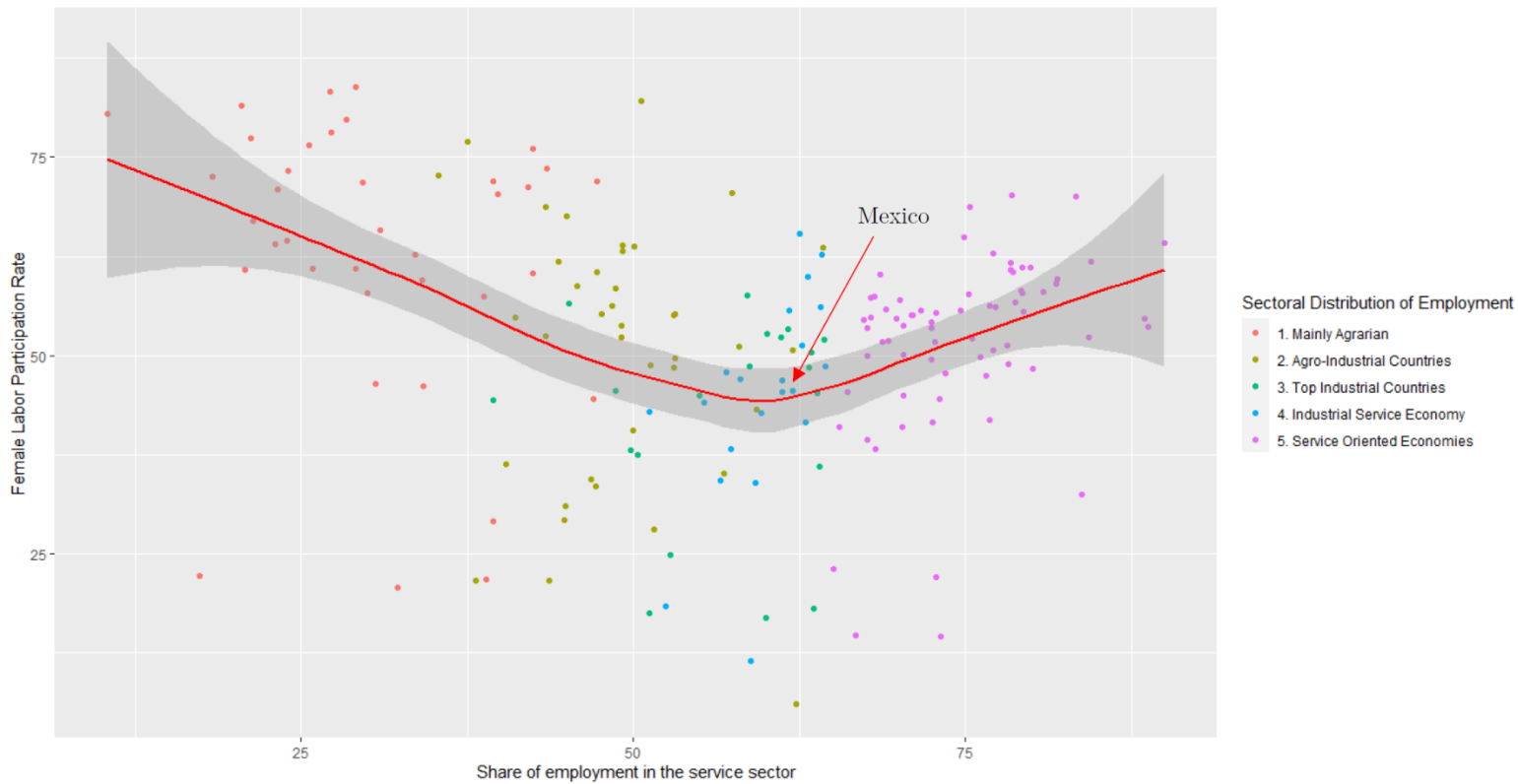
For working-age men, it captures the level of education of their wives.

Table 1.4 – Descriptive statistics of the sample by year/quarter and state

		All working-age (18-65)					
		Obs	%	Mean	Std. dev.	Min	Max
Year and quarter							
	2016, Q1	238,983	24.8	-	-	-	-
	2017, Q2	240,221	24.9	-	-	-	-
	2018, Q3	238,274	24.7	-	-	-	-
	2019, Q4	246,778	25.6	-	-	-	-
		964,256	100.0				
State							
	Aguascalientes	28,810	3.0	-	-	-	-
	Baja California	33,034	3.4	-	-	-	-
	Baja California Sur	21,808	2.3	-	-	-	-
	Campeche	27,886	2.9	-	-	-	-
	Coahuila de Zaragoza	38,004	3.9	-	-	-	-
	Colima	25,338	2.6	-	-	-	-
	Chiapas	33,460	3.5	-	-	-	-
	Chihuahua	29,885	3.1	-	-	-	-
	Ciudad de México	24,710	2.6	-	-	-	-
	Durango	31,037	3.2	-	-	-	-
	Guanajuato	40,750	4.2	-	-	-	-
	Guerrero	27,761	2.9	-	-	-	-
	Hidalgo	25,525	2.7	-	-	-	-
	Jalisco	34,700	3.6	-	-	-	-
	México	45,166	4.7	-	-	-	-
	Michoacán de Ocampo	29,190	3.0	-	-	-	-
	Morelos	26,027	2.7	-	-	-	-
	Nayarit	27,292	2.8	-	-	-	-
	Nuevo León	33,428	3.5	-	-	-	-
	Oaxaca	31,841	3.3	-	-	-	-
	Puebla	36,033	3.7	-	-	-	-
	Querétaro	27,998	2.9	-	-	-	-
	Quintana Roo	24,945	2.6	-	-	-	-
	San Luis Potosí	28,806	3.0	-	-	-	-
	Sinaloa	28,647	3.0	-	-	-	-
	Sonora	26,454	2.7	-	-	-	-
	Tabasco	29,068	3.0	-	-	-	-
	Tamaulipas	29,724	3.1	-	-	-	-
	Tlaxcala	28,437	3.0	-	-	-	-
	Veracruz	31,232	3.2	-	-	-	-
	Yucatán	27,879	2.9	-	-	-	-
	Zacatecas	29,381	3.1	-	-	-	-
		964,256	100.0				

Appendix B: Figures and Tables

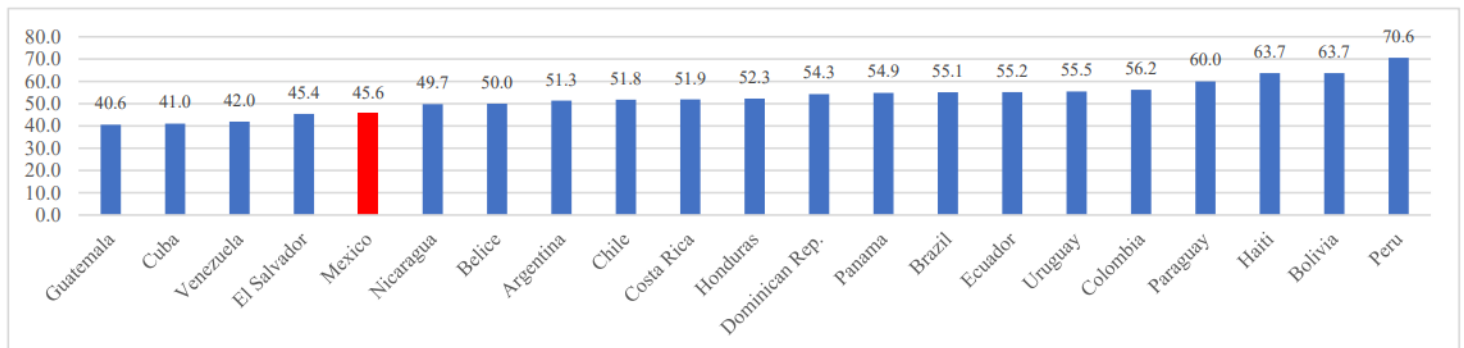
Figure 1.7 – U-shaped relationship of FLPRs at different stages of economic development across countries (2019)



Notes:

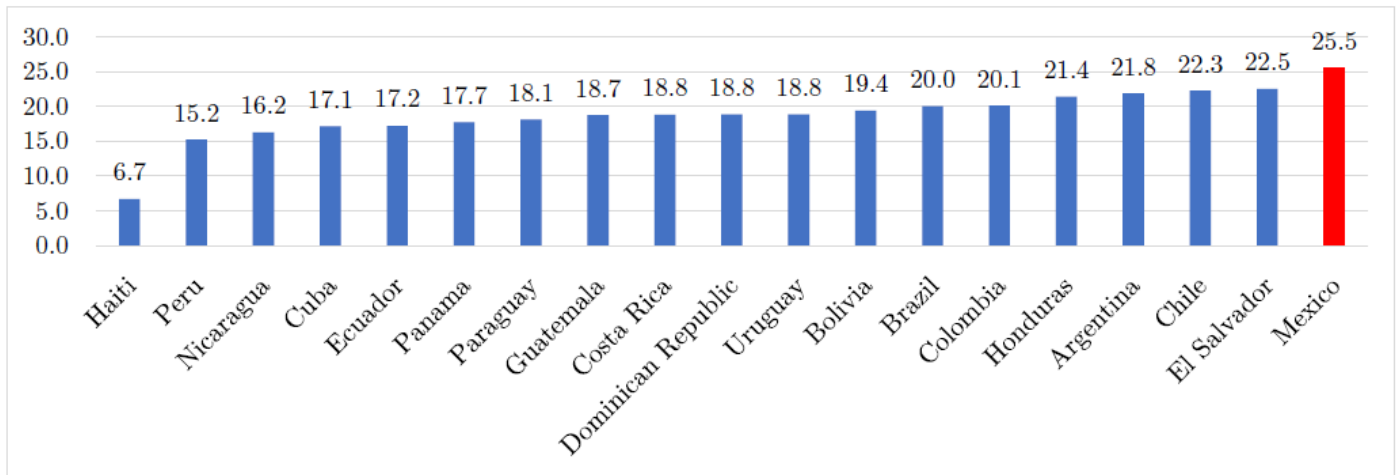
- Countries with the highest proportion of jobs in agriculture are on the left-hand side of the Figure.
- Countries are classified as mainly agrarian if their agricultural sector accounts for 40% to 80% of their total jobs.
- In the centre of the figure are the top industrial countries, with over 30% of their jobs in industry.
- On the right-hand side are the service-oriented countries, with at least 65% of their jobs in services.
- Agro-industrial countries have 25% to 40% of their jobs in agriculture and fewer than 30% in industry.
- Industrial-service economies have more than 50% of jobs in services and fewer than 30% in industry.
- Data Sources: World Bank Development Indicators.
- 1) Employment in services (% of total employment) (modeled ILO estimate)
- 2) Labor force participation rate female (% of female population ages 15+) (modeled ILO estimate)

Figure 1.8 – FLPRs in Latin American countries (2019)



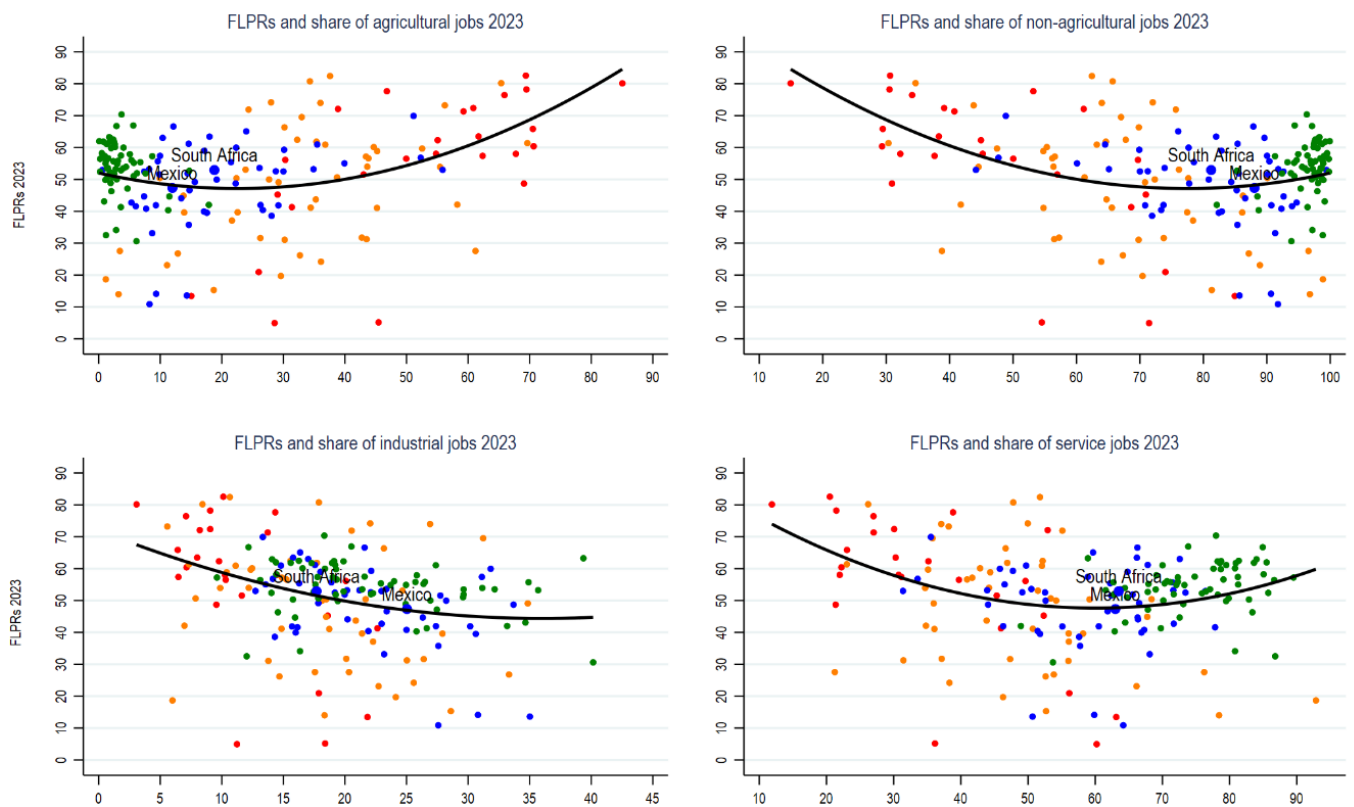
Source: World Bank, WDI – Female labor participation (% of female population ages 15+).

Figure 1.9 – Industrial jobs as a share of total employment in Latin American countries (2019)



Source: World Bank, WDI – Employment in industry (% of total employment).

Figure 1.10 – Female labour participation rates and sectoral shares of employment across countries (2023)



Notes:

Income group classification: Red = low income; Orange = lower-middle income; Blue = upper-middle income; Green = High income.

Data obtained from the World Bank Development Indicators.

Figure 1.11 – Sectoral composition of employment in Mexico: industry and manufacturing disaggregated (2019, Q4)

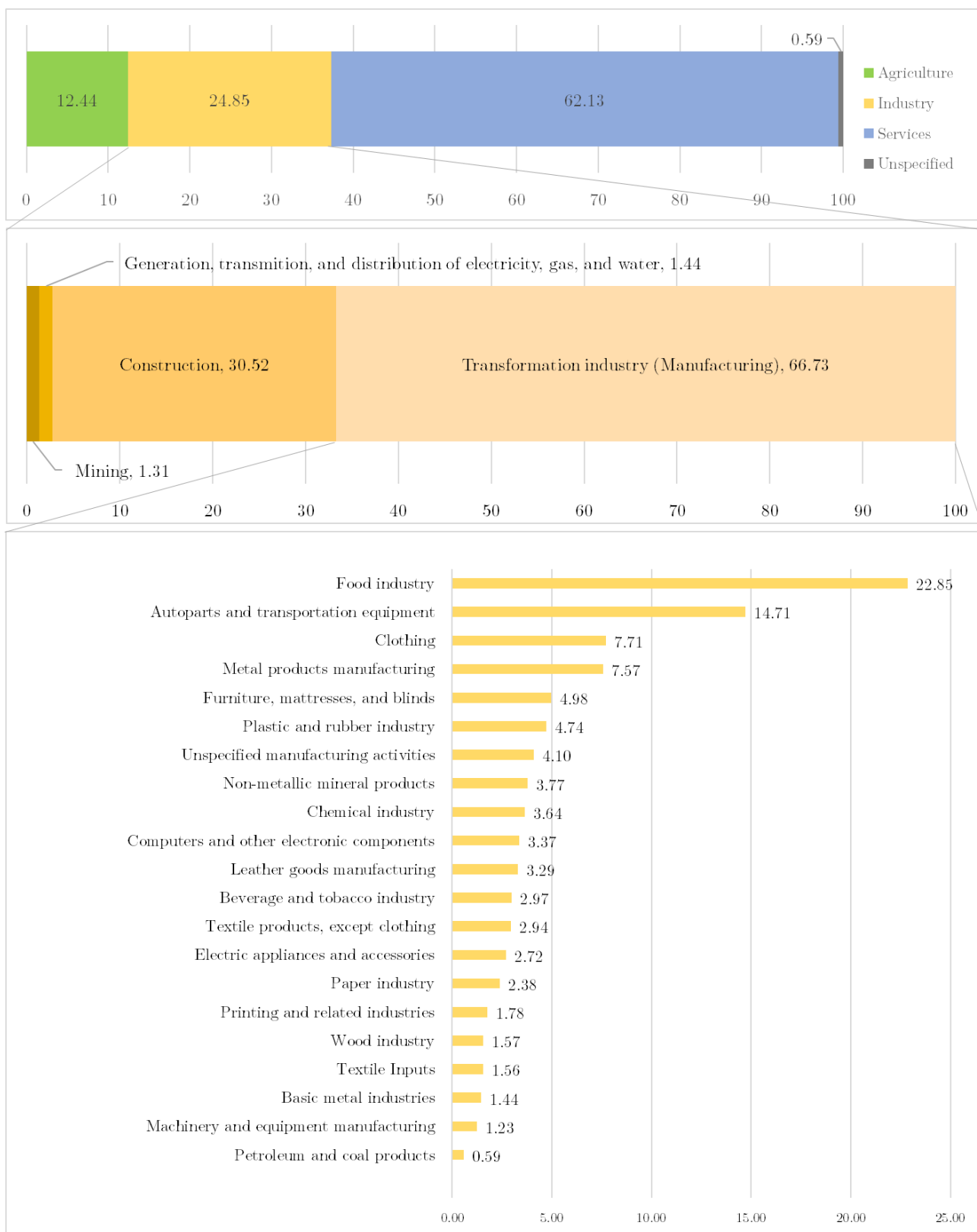


Figure 1.12 – Proportion of men and women working in different economic activities within the industrial sector (Mexico, Q4 2019)

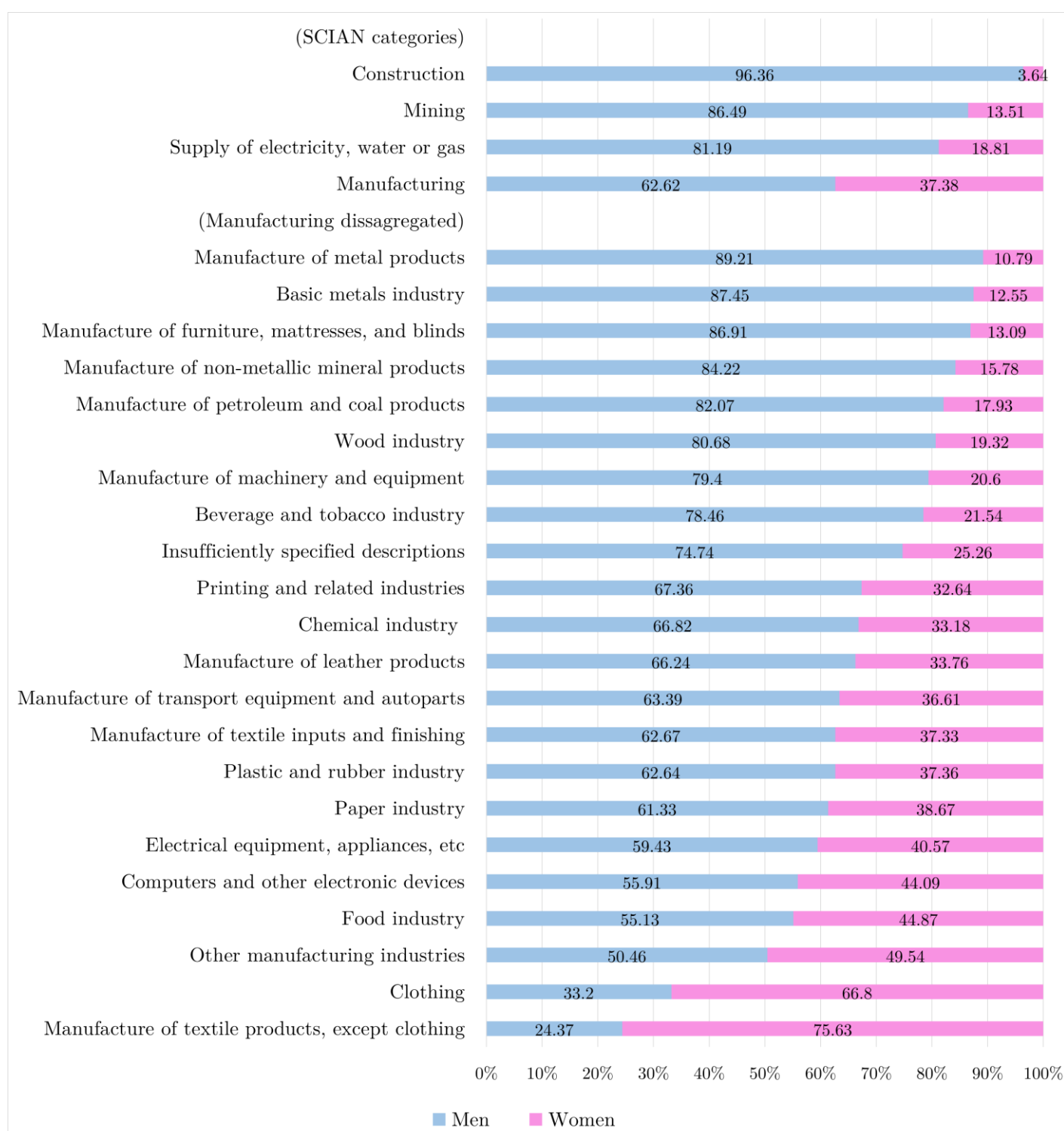


Table 1.5 – Distribution of female workforce across economic activities within the industrial sector (2019, fourth quarter)

Economic activity	Percentage	Female workers
Food industry	24.88	868,425
Auto parts and transportation equipment	14.26	497,798
Clothing	12.77	445,803
Unspecified manufacturing activities	5.18	180,636
Textile products, except clothing	5.13	179,082
Plastic and rubber industry	4.53	157,939
Construction	4.40	153,512
Computers and other electronic devices	3.91	136,445
Chemical industry	3.19	111,451
Electrical appliances and accessories	2.90	101,109
Leather goods manufacturing	2.80	97,772
Paper industry	2.30	80,254
Metal products manufacturing	2.16	75,495
Furniture, mattresses, and blinds	1.69	58,842
Beverage and tobacco industry	1.64	57,085
Printing and related industries	1.53	53,498
Non-metallic mineral products	1.46	50,911
Textile Inputs	1.34	46,859
Supply of electricity, water, or gas	1.08	37,577
Mining	0.70	24,423
Timber industry	0.69	24,160
Machinery and equipment manufacturing	0.67	23,479
Basic metal industries	0.47	16,285
Petroleum and coal products	0.28	9,811
Total	100.00	3,488,651

Table 1.6 – Marital status of working-age women in Mexico

Marital status	Year / Quarter			
	2016, Q1	2017, Q2	2018, Q3	2019, Q4
Married	45.69%	44.29%	43.70%	42.08%
Single	26.19%	26.53%	26.91%	27.66%
Free union	17.09%	18.18%	18.20%	18.98%
Separated	5.23%	5.35%	5.27%	5.38%
Widowed	3.76%	3.61%	3.73%	3.73%
Divorced	2.04%	2.04%	2.18%	2.16%

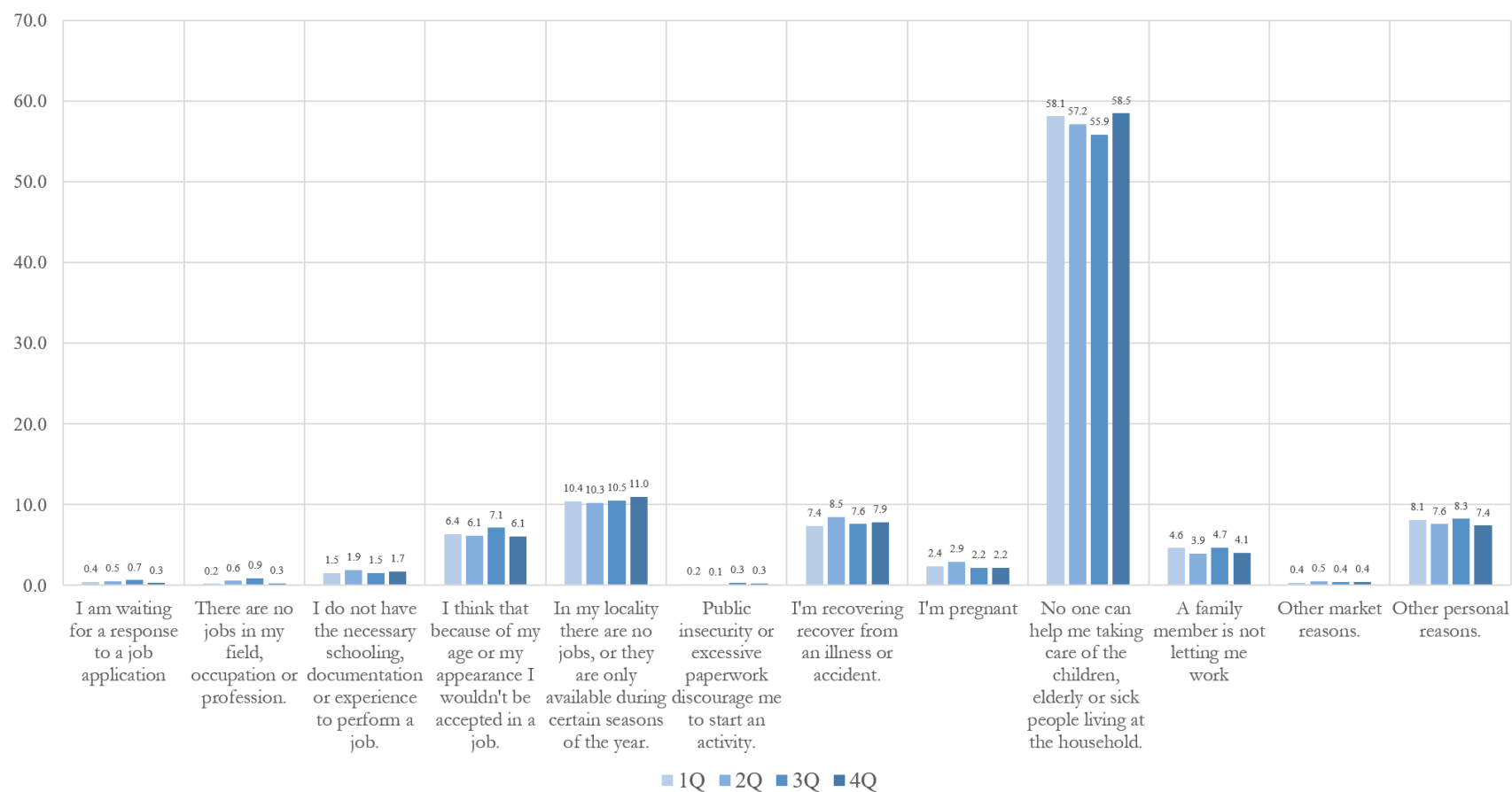
Table 1.7 – Main reason for leaving your last job (first quarter of 2016)

	Men			Women		
Main reason	Observations	Population	%	Observations	Population	%
I wanted to earn more money	6,626	1,954,553	32.76	3,004	823,230	7.49
I wanted to become independent	2,627	931,619	15.62	434	126,452	1.15
Changes or deterioration of income, benefits, and/or working hours	2,937	720,674	12.08	2,458	618,982	5.63
The job was risky and/or unhealthy	347	114,473	1.92	216	66,782	0.61
I was forced to resign or retire	89	24,977	0.42	87	18,478	0.17
Lack of opportunities for advancement and growth	234	62,668	1.05	139	43,084	0.39
I experienced harassment or disrespect	112	32,469	0.54	228	63,276	0.58
I had a conflict with my boss or superior	908	263,190	4.41	835	242,710	2.21
Marriage, pregnancy, and/or family responsibilities	474	148,491	2.49	21,109	6,695,159	60.88
A family member prevented me from continuing to work	156	45,034	0.75	1,415	451,793	4.11
I wanted to continue studying	2,883	787,289	13.2	2,248	596,988	5.43
None of the above	2,782	835,840	14.01	4,118	1,207,101	10.98
Did not answer	183	44,510	0.75	188	44,059	0.4
Total	20,358	5,965,787	100	36,479	10,998,094	100

Notes:

- The most popular response for men and for women is highlighted in bold.
- The population estimates were calculated using the probability weights of each person in the sample.
- This question is part of the extended ENOE questionnaire, which is administered only during the first quarter of each year.

Figure 1.13 – Reasons why women dedicated to household chores are not working. (Mexico, 2019)



Notes: In Mexico, there are four categories for classifying individuals who are not participating in the labour force: (1) people dedicated to household chores; (2) students; (3) retirees and pensioners; and (3) people who are permanently disabled. This figure focuses on the responses of women who are dedicated to household chores, thereby excluding students, retirees, and individuals with permanent disabilities from the analysis.

Appendix C: Regression results

Table 1.8 – First stage: Multinomial probit regression to estimate men's and women's likelihood of working in agriculture, industry, informal services or formal services depending on marital status

	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)
	Women working in Agriculture	Women working in Industry	Women working in Informal Services	Women working in Formal Services	Men working in Agriculture	Men working in Industry	Men working in Informal Services	Men working in Formal Services
<i>Marital status (Base category: Single)</i>								
Married	-0.5055*** (0.0311)	-0.7401*** (0.0170)	-0.6157*** (0.0142)	-0.7063*** (0.0161)	0.5210*** (0.0218)	0.7616*** (0.0173)	0.4529*** (0.0181)	0.7849*** (0.0180)
Free Union	-0.3879*** (0.0331)	-0.6730*** (0.0184)	-0.4987*** (0.0155)	-0.5570*** (0.0180)	0.6361*** (0.0234)	0.7568*** (0.0193)	0.6646*** (0.0200)	0.7504*** (0.0206)
Previously married	0.0416 (0.0374)	-0.0420** (0.0204)	0.0529*** (0.0175)	0.0044 (0.0197)	0.1918*** (0.0345)	0.5049*** (0.0272)	0.3988*** (0.0278)	0.4730*** (0.0280)
<i>Control variables</i>								
Household socio-economic strata	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Level of education	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Age	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Age squared	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Kids in the household (<6)	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Urban/rural household location	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Population size of the household location	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Household head sex	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Household head education	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Household head age	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Fixed effects: Year/quarter	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Fixed effects: State	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Constant	-3.9989*** (0.1149)	-4.5988*** (0.0625)	-3.5425*** (0.0520)	-6.9487*** (0.0642)	-2.3601*** (0.0787)	-3.4199*** (0.0653)	-3.4889*** (0.0694)	-6.0874*** (0.0719)
Observations	506,496	506,496	506,496	506,496	456,877	456,877	456,877	456,877

Notes:

- Columns 1 to 4 report multinomial probit estimates for working-age women (18–65), taking those who are not working as the baseline category.
- Columns 5 to 8 report multinomial probit estimates for working-age men (18–65), taking those who are not working as the baseline category.
- Regressions were run using probability weights.
- Base category for time fixed effects (2016, Q1).
- Base category for state fixed effects (Mexico City).
- Standard errors in parentheses.
- *** $p < 0.01$, ** $p < 0.05$, * $p < 0.10$

Table 1.9 – First stage: Predicted probabilities of men and women working in different economic sectors depending on their marital status

	(1)	(2)	(3)	(4)	(5)
	Not working	Working in agriculture	Working in industry	Working in informal services	Working in formal services
Women's Marital Status					
Single	0.5148*** (0.0021)	0.0053*** (0.0003)	0.0985*** (0.0012)	0.2436*** (0.0018)	0.1353*** (0.0015)
Married	0.4779*** (0.0030)	0.0059*** (0.0004)	0.0986*** (0.0018)	0.2614*** (0.0027)	0.1536*** (0.0024)
Free Union	0.3040*** (0.0037)	0.0067*** (0.0005)	0.1491*** (0.0029)	0.3338*** (0.0039)	0.2041*** (0.0035)
Previously Married	0.3082*** (0.0029)	0.0062*** (0.0004)	0.1614*** (0.0027)	0.3160*** (0.0031)	0.2059*** (0.0030)
Men's Marital Status					
Single	0.0589*** (0.0010)	0.0480*** (0.0011)	0.3847*** (0.0024)	0.2118*** (0.0021)	0.2910*** (0.0024)
Married	0.0538*** (0.0013)	0.0541*** (0.0014)	0.3598*** (0.0032)	0.2656*** (0.0030)	0.2602*** (0.0030)
Free Union	0.0840*** (0.0027)	0.0377*** (0.0019)	0.3604*** (0.0053)	0.2610*** (0.0049)	0.2518*** (0.0048)
Previously Married	0.1551*** (0.0024)	0.0536*** (0.0015)	0.3082*** (0.0033)	0.2553*** (0.0031)	0.2219*** (0.0030)

Notes:

- These estimations are model-based predictions obtained from the multinomial probit regressions fitted in the first stage of the econometric analysis.
- To obtain these predicted probabilities, all covariates included in the multinomial probit regressions are held at their respective mean values.
- Standard errors in parentheses.
- *** $p < 0.01$, ** $p < 0.05$, * $p < 0.1$

Table 1.10 – Second stage: Probit regressions to estimate wives' likelihood of working in different industries, white-collar activities, white-collar occupations, and different service jobs requiring high-brain-skills and low-brain-skills (compared with single women).

	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)	(16)	(17)	(18)
	Mining	Iron and steel	Food processing	Clothing and textiles	Education	Health	Finance	Office workers	Management positions	Sales	Architect	Lawyer	Accounting	Doctor	Nurses	Secretary	Waitress	Hairstyling
<i>Marital status (Base category: Single)</i>																		
Married	-0.31*** (0.09)	-0.50*** (0.07)	-0.38*** (0.02)	-0.50*** (0.03)	-0.31*** (0.02)	-0.42*** (0.03)	-0.51*** (0.05)	-0.62*** (0.02)	-0.43*** (0.03)	-0.40*** (0.01)	-0.64*** (0.10)	-0.48*** (0.07)	-0.53*** (0.05)	-0.45*** (0.07)	-0.37*** (0.04)	-0.64*** (0.03)	-0.61*** (0.04)	-0.35*** (0.04)
Free Union	-0.33*** (0.10)	-0.37*** (0.07)	-0.36*** (0.03)	-0.52*** (0.03)	-0.29*** (0.03)	-0.32*** (0.03)	-0.39*** (0.05)	-0.45*** (0.02)	-0.29*** (0.04)	-0.36*** (0.02)	-0.31** (0.14)	-0.32*** (0.08)	-0.40*** (0.05)	-0.23*** (0.08)	-0.21*** (0.04)	-0.53*** (0.03)	-0.44*** (0.05)	-0.37*** (0.04)
Previously married	0.19 (0.12)	-0.11 (0.07)	0.03 (0.03)	-0.09*** (0.03)	-0.01 (0.03)	-0.00 (0.03)	0.00 (0.05)	-0.03 (0.02)	-0.07* (0.04)	-0.00 (0.02)	-0.33** (0.14)	-0.12 (0.08)	-0.05 (0.05)	-0.18* (0.10)	0.02 (0.04)	-0.10*** (0.03)	-0.01 (0.05)	0.05 (0.04)
<i>Control variables</i>																		
Respondent's level of education	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Age	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Age squared	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Household socio-economic strata	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Children under 6 in the household	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Urban/rural household location	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Population size of the household location	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Household head sex	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Household head age	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Fixed effects: Year/quarter	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Fixed effects: State	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No
Constant	-5.67*** (0.43)	-5.26*** (0.23)	-3.29*** (0.08)	-3.18*** (0.09)	-7.17*** (0.11)	-6.23*** (0.10)	-6.72*** (0.21)	-5.89*** (0.08)	-7.41*** (0.15)	-3.07*** (0.05)	-6.58*** (0.45)	-7.45*** (0.30)	-8.35*** (0.24)	-5.97*** (0.28)	-6.80*** (0.16)	-6.72*** (0.11)	-3.20*** (0.14)	-5.11*** (0.13)
Observations	247,849	249,128	258,434	255,681	271,732	264,121	251,558	284,507	256,451	298,610	41,122	42,950	253,697	57,213	253,635	260,480	251,015	252,148

Notes:

- Regressions 1 to 4 correspond to: (1) mining, (2) iron and steel, (3) food processing, and (4) clothing and textiles. These categories were constructed using the NAICS classification system.
- Regressions 5 to 7 correspond to: (5) education, (6) health, and (7) finance. These categories were defined using the NAICS classification system.
- The NAICS classification system is used by Mexico, the USA, and Canada to classify workers according to the characteristics of the economic activity of the firm in which they are employed.
- NAICS is divided into three sectors: agriculture, industry, and services. It then breaks these down into 20 subsectors, including mining, manufacturing, financial services, health, education, as well as others.
- NAICS subsectors can be further disaggregated into economic activities. For instance, iron and steel, food processing, and clothing and textiles are industrial activities in the NAICS system.
- The NAICS is based on firm characteristics. Thus, administrative workers in a mining company are considered workers in the mining industry.
- To address this limitation of the NAICS, this study also uses the SINCO classification system, which classifies employees based on their job characteristics, rather than the characteristics of the firms where they work.
- An explanation of how each variable was constructed using the NAICS and SINCO can be found in the methodology section, specifically in the subsection devoted to the second stage of the econometric analysis.
- Additional details on NAICS and SINCO can be found in the [online appendix](#).
- The lower number of observations for architects (column 11), lawyers (column 12), and doctors (column 14) reflects the fact that these occupations require university-level qualifications as a prerequisite for professional practice. Consequently, the sample for these regressions is automatically restricted to people with university degrees, thereby representing a subset of the broader population.

Table 1.11 – Second stage: Probit regressions to estimate husbands' likelihood of working in different industries, white-collar activities, white-collar occupations, and different service jobs requiring high-brain-skills and low-brain-skills (compared with single men).

	(1) Mining	(2) Iron and steel	(3) Food processing	(4) Clothing and textiles	(5) Education	(6) Health	(7) Finance	(8) Office workers	(9) Management positions	(10) Sales	(11) Architect	(12) Lawyer	(13) Accounting	(14) Doctor	(15) Nurses	(16) Secretary	(17) Waitress	(18) Hairstyling
<i>Marital status (Base category: Single)</i>																		
Married	0.77*** (0.05)	0.76*** (0.04)	0.85*** (0.03)	0.48*** (0.05)	0.46*** (0.03)	0.45*** (0.04)	0.75*** (0.05)	0.61*** (0.03)	0.68*** (0.04)	0.68*** (0.02)	0.43*** (0.09)	0.42*** (0.07)	0.48*** (0.05)	0.36*** (0.07)	0.43*** (0.07)	0.26*** (0.07)	0.33*** (0.05)	-0.29*** (0.07)
Free Union	0.68*** (0.05)	0.66*** (0.04)	0.76*** (0.03)	0.47*** (0.05)	0.28*** (0.04)	0.34*** (0.05)	0.56*** (0.06)	0.54*** (0.03)	0.52*** (0.04)	0.65*** (0.03)	0.33*** (0.11)	0.23*** (0.08)	0.28*** (0.07)	0.23** (0.10)	0.39*** (0.08)	0.28*** (0.08)	0.49*** (0.04)	-0.06 (0.08)
Previously married	0.49*** (0.08)	0.53*** (0.05)	0.56*** (0.05)	0.15** (0.07)	0.16*** (0.05)	0.22*** (0.06)	0.44*** (0.09)	0.29*** (0.04)	0.33*** (0.05)	0.38*** (0.03)	0.14 (0.14)	0.13 (0.11)	0.11 (0.08)	-0.13 (0.12)	0.15 (0.10)	0.07 (0.10)	0.18*** (0.06)	-0.37*** (0.12)
<i>Control variables</i>																		
Respondent's level of education	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Age	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Age squared	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Household socio-economic strata	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Children under 6 in the household	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Urban/rural household location	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Population size of the household location	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Household head sex	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Household head age	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Fixed effects: Year/quarter	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Fixed effects: State	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No
Constant	-5.71*** (0.20)	-4.62*** (0.11)	-3.52*** (0.11)	-4.04*** (0.16)	-8.25*** (0.16)	-7.68*** (0.16)	-7.61*** (0.26)	-6.16*** (0.10)	-7.91*** (0.15)	-4.20*** (0.08)	-7.15*** (0.35)	-8.23*** (0.28)	-8.80*** (0.28)	-6.78*** (0.27)	-6.90*** (0.27)	-6.21*** (0.26)	-3.54*** (0.16)	-4.86*** (0.25)
Observations	80,808	87,151	88,863	81,723	92,631	85,710	81,292	105,069	92,118	116,530	25,493	27,400	83,012	26,427	79,619	79,346	82,301	78,924

Notes:

- Regressions 1 to 4 correspond to: (1) mining, (2) iron and steel, (3) food processing, and (4) clothing and textiles. These categories were constructed using the NAICS classification system.
- Regressions 5 to 7 correspond to: (5) education, (6) health, and (7) finance. These categories were defined using the NAICS classification system.
- The NAICS classification system is used by Mexico, the USA, and Canada to classify workers according to the characteristics of the economic activity of the firm in which they are employed.
- NAICS is divided into three sectors: agriculture, industry, and services. It then breaks these down into 20 subsectors, including mining, manufacturing, financial services, health, education, as well as others.
- NAICS subsectors can be further disaggregated into economic activities. For instance, iron and steel, food processing, and clothing and textiles are industrial activities in the NAICS system.
- The NAICS is based on firm characteristics. Thus, administrative workers in a mining company are considered workers in the mining industry.
- To address this limitation of the NAICS, this study also uses the SINCO classification system, which classifies employees based on their job characteristics, rather than the characteristics of the firms where they work.
- An explanation of how each variable was constructed using the NAICS and SINCO can be found in the methodology section, specifically in the subsection devoted to the second stage of the econometric analysis.
- Additional details on NAICS and SINCO can be found in the online appendix.
- The lower number of observations for architects (column 11), lawyers (column 12), and doctors (column 14) reflects the fact that these occupations require university-level qualifications as a prerequisite for professional practice. Consequently, the sample for these regressions is automatically restricted to people with university degrees, thereby representing a subset of the broader population.

Table 1.12 – Third stage: Multinomial probit regression to estimate wives' and husbands' likelihood of working in agriculture, industry, informal services or formal services depending on their partner's education.

	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)
	Wives working in agriculture	Wives working in industry	Wives working in informal services	Wives working in formal services	Husbands working in agriculture	Husbands working in industry	Husbands working in informal services	Husbands working in formal services
<i>Partner's level of education (Base category: Primary school or less)</i>								
Secondary school	-0.2476*** (0.0321)	-0.0170 (0.0192)	0.0142 (0.0166)	0.1424*** (0.0221)	-0.1306*** (0.0233)	-0.0220 (0.0215)	0.0659*** (0.0227)	0.1193*** (0.0231)
High school	-0.4436*** (0.0528)	-0.1390*** (0.0245)	-0.0813*** (0.0209)	0.2039*** (0.0248)	-0.2979*** (0.0344)	-0.1842*** (0.0286)	0.0777*** (0.0301)	0.2150*** (0.0294)
Technical school	-0.8549*** (0.1353)	-0.1443*** (0.0463)	-0.1394*** (0.0379)	0.1168*** (0.0398)	-0.2754*** (0.0492)	-0.2254*** (0.0342)	-0.0170 (0.0364)	0.1405*** (0.0340)
University degree	-0.4647*** (0.0696)	-0.3295*** (0.0300)	-0.3075*** (0.0248)	0.0809*** (0.0274)	-0.3922*** (0.0479)	-0.3620*** (0.0342)	-0.0445 (0.0360)	0.2550*** (0.0336)
<i>Household socio-economic strata (Base category: Low stratum)</i>								
Middle-low stratum	-0.1671*** (0.0302)	0.1042*** (0.0241)	0.2773*** (0.0198)	0.4597*** (0.0299)	-0.4539*** (0.0243)	0.2581*** (0.0248)	0.2268*** (0.0263)	0.4768*** (0.0279)
Middle-high stratum	-0.2358*** (0.0763)	0.1455*** (0.0307)	0.1742*** (0.0259)	0.5286*** (0.0344)	-0.5701*** (0.0419)	0.1499*** (0.0320)	0.0485 (0.0339)	0.5017*** (0.0345)
High stratum	-0.1847* (0.0988)	0.0944** (0.0381)	-0.0240 (0.0334)	0.3304*** (0.0390)	-0.1930*** (0.0567)	0.2659*** (0.0435)	-0.0747 (0.0464)	0.5266*** (0.0443)
<i>Control variables</i>								
Respondent's level of education	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Age	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Age squared	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Children under 6 in the household	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Urban/rural household location	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Population size of the household location	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Household head sex	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Household head age	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Fixed effects: Year/quarter	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Fixed effects: State	No	No	No	No	No	No	No	No
Constant	-3.1704*** (0.1972)	-3.6125*** (0.1118)	-3.1151*** (0.0898)	-5.3793*** (0.1127)	-0.3201** (0.1400)	-1.4096*** (0.1193)	-1.3914*** (0.1263)	-3.5889*** (0.1261)
Observations	258,564	258,564	258,564	258,564	246,291	246,291	246,291	246,291

Notes:

- These results were obtained using a multinomial probit regression.
 - The dependent variable comprises five categories: (0) not working, (1) employed in agriculture, (2) employed in industry, (3) employed in informal services, and (4) employed in formal services.
 - The analysis uses category 0 (not working) as the base outcome.
 - The regression table does not report estimates for category 5 (unspecified activities) because it contains only a few observations and is not relevant to the analysis.
 - The regression excludes single, separated, divorced, and widowed women/men, and retains only those who are married or in free-union partnerships.
 - Standard errors in parentheses
- *** $p < 0.01$, ** $p < 0.05$, * $p < 0.1$

Table Error! No text of specified style in document..1 – Predicted probability of wives working in different sectors depending on the education level of their husbands

	(1) Not working	(2) Working in agriculture	(3) Working in industry	(4) Working in informal services	(5) Working in formal services
Husband's level of education					
Primary school or less	0.5570*** (0.0035)	0.0104*** (0.0007)	0.0914*** (0.0020)	0.2467*** (0.0031)	0.0919*** (0.0022)
Secondary school	0.5470*** (0.0034)	0.0056*** (0.0004)	0.0865*** (0.0018)	0.2460*** (0.0030)	0.1128*** (0.0023)
High school	0.5650*** (0.0042)	0.0037*** (0.0005)	0.0741*** (0.0021)	0.2247*** (0.0036)	0.1302*** (0.0029)
Technical school	0.5839*** (0.0086)	0.0014*** (0.0005)	0.0776*** (0.0048)	0.2164*** (0.0075)	0.1194*** (0.0053)
University degree	0.6219*** (0.0047)	0.0046*** (0.0007)	0.0627*** (0.0022)	0.1856*** (0.0038)	0.1242*** (0.0031)

Table Error! No text of specified style in document..2 – Predicted probability of husbands working in different sectors depending on the education level of their wives

	(1) Not working	(2) Working in agriculture	(3) Working in industry	(4) Working in informal services	(5) Working in formal services
Wife's level of education					
Primary school or less	0.0775*** (0.0020)	0.0827*** (0.0022)	0.4012*** (0.0039)	0.2090*** (0.0033)	0.2250*** (0.0035)
Secondary school	0.0744*** (0.0019)	0.0631*** (0.0018)	0.3787*** (0.0035)	0.2217*** (0.0031)	0.2567*** (0.0032)
High school	0.0791*** (0.0027)	0.0496*** (0.0022)	0.3223*** (0.0045)	0.2369*** (0.0043)	0.3061*** (0.0045)
Technical school	0.0868*** (0.0035)	0.0572*** (0.0040)	0.3283*** (0.0066)	0.2242*** (0.0061)	0.2984*** (0.0062)
University degree	0.0896*** (0.0035)	0.0477*** (0.0031)	0.2809*** (0.0052)	0.2213*** (0.0052)	0.3544*** (0.0055)

Notes:

- These estimations are model-based predictions obtained from the multinomial probit regressions fitted in the third stage of the econometric analysis.
- To obtain these predicted probabilities, all covariates included in the multinomial probit regressions are held at their respective mean values.
- Standard errors in parentheses.
- *** $p < 0.01$, ** $p < 0.05$, * $p < 0.1$

Appendix D: Classification systems (NAICS & SINCO)

This online appendix includes the classification systems used in Mexico's ENOE survey. It begins with an explanation of NAICS, followed by an explanation of SINCO.

NAICS Classification System

The NAICS Classification System is used in Mexico, the United States, and Canada. It is based on the characteristics of the firm where the surveyed individuals work. The system is organised into three broad economic sectors: agriculture, industry, and services. It can also be disaggregated into 21 subsectors and, at the finest level of detail, into 181 economic activities. Below is a list of the 21 subsectors and the economic activities that comprise each subsector.

It is important for the reader to note the following. The list of economic activities presented here was obtained directly from INEGI (2015). The ENOE survey includes variables to identify in which economic sector (3 options), in which subsector (21 options), and in which economic activity (181 options) each worker is employed. To assist readers unfamiliar with Spanish, this list has been translated using artificial intelligence and is included for reference purposes. For additional details, verification, or precise definitions of the categories listed below, please refer to the original Spanish documentation from INEGI (2015).

1 - Agriculture, Animal Breeding and Production, Forestry, Fishing and Hunting

- **1110** Agriculture
- **1121** Animal breeding and production
- **1122** Aquaculture
- **1130** Forestry
- **1141** Fishing
- **1142** Hunting and trapping
- **1150** Services related to agricultural and forestry activities
- **1199** Insufficiently specified descriptions of subsectors within Sector 11

2 - Mining

- **2110** Oil and gas extraction
- **2121** Coal mining
- **2122** Metallic mineral mining
- **2123** Non-metallic mineral mining
- **2129** Insufficiently specified descriptions of metallic and non-metallic minerals
- **2131** Mining-related services
- **2132** Drilling of oil and gas wells
- **2199** Insufficiently specified descriptions of subsectors within Sector 21

3 - Generation, Transmission and Distribution of Electricity, Water and Gas Supply

- **2210** Electricity generation, transmission and distribution
- **2221** Water collection, treatment and supply
- **2222** Gas supply through pipelines to the final consumer

4 - Construction

- **2361** Residential building construction
- **2362** Self-built residential construction
- **2363** Non-residential building construction
- **2370** Civil engineering works construction
- **2381** Specialised construction work
- **2382** Masonry, plumbing, electrical installations, and outdoor construction work
- **2399** Insufficiently specified descriptions of subsectors within Sector 23

5 - Manufacturing Industries

- **3110** Food industry
- **3120** Beverage and tobacco industry

- **3130** Manufacture of textile inputs and textile finishing
- **3140** Manufacture of textile products, except apparel
- **3150** Manufacture of apparel
- **3160** Manufacture, tanning and finishing of leather, hide, and substitute products
- **3210** Wood industry
- **3220** Paper industry
- **3230** Printing and related industries
- **3240** Manufacture of petroleum and coal products
- **3250** Chemical industry
- **3260** Plastic and rubber industry
- **3270** Manufacture of non-metallic mineral products
- **3310** Basic metal industries
- **3320** Manufacture of fabricated metal products
- **3330** Manufacture of machinery and equipment
- **3340** Manufacture of computing and communication equipment, components, or accessories.
- **3350** Manufacture of electrical accessories, appliances, and power generation equipment
- **3360** Manufacture of transport equipment and motor vehicle parts
- **3370** Manufacture of furniture, mattresses, and blinds
- **3380** Other manufacturing industries
- **3399** Insufficiently specified descriptions of subsectors within Sector 31–33

6 - Wholesale Trade

- **4310** Wholesale trade of groceries, food, beverages, ice, and tobacco
- **4320** Wholesale trade of textile products and footwear
- **4330** Wholesale trade of pharmaceuticals, perfumes, recreational items, small appliances, and major household appliances
- **4340** Wholesale trade of agricultural and forestry raw materials, industrial supplies, and waste materials
- **4350** Wholesale trade of machinery, equipment, and furniture for agricultural, industrial, service, and commercial activities, and other general-purpose machinery and equipment
- **4360** Wholesale trade of trucks, auto parts and accessories for cars, pickups and trucks
- **4370** Wholesale trade intermediation
- **4399** Insufficiently specified descriptions of subsectors within Sector 43

7 - Retail Trade

- **4611** Retail trade of groceries, food, beverages, ice, and tobacco
- **4612** Street vending of groceries, food, beverages, ice, and tobacco
- **4620** Retail trade in self-service and department stores
- **4631** Retail trade of textile products, jewellery, fashion accessories, and footwear
- **4632** Street vending of textile products, jewellery, fashion accessories, and footwear
- **4641** Retail trade of health care items
- **4642** Street vending of health care items
- **4651** Retail trade of stationery, recreational items, and other personal use articles
- **4652** Street vending of stationery, recreational items, and other personal use articles
- **4661** Retail trade of household appliances, computers, home decor items, and used goods
- **4662** Street vending of furniture, household goods, and used goods
- **4671** Retail trade of hardware, paint supplies, and glass
- **4672** Street vending of hardware and paint supplies
- **4681** Retail trade of motor vehicles, spare parts, fuels, and lubricants
- **4682** Street vending of automobile parts, accessories, and fuels
- **4690** Retail trade exclusively through the Internet, printed catalogues, and television
- **4699** Insufficiently specified descriptions of subsectors within Sector 46

8 - Transportation, Postal and Storage Services

- **4810** Air transportation
- **4820** Rail transportation
- **4830** Water transportation

- **4840** Freight trucking
- **4850** Land passenger transportation, except rail
- **4860** Pipeline transportation
- **4870** Tourist transportation
- **4881** Transportation-related services
- **4882** Aircraft, ship, and train exterior cleaning and repair services
- **4899** Insufficiently specified descriptions of subsectors within Sector 48
- **4910** Postal services
- **4920** Courier and parcel delivery services
- **4930** Storage services

9 - Mass Media and Information Services

- **5110** Publishing of newspapers, magazines, books, software, and other materials, including publishing integrated with printing
- **5120** Film, video, and sound industry
- **5150** Radio and television
- **5170** Other telecommunications
- **5180** Electronic data processing, hosting, and other related services
- **5190** Other information services
- **5199** Insufficiently specified descriptions of subsectors within Sector 51

10 - Financial and Insurance Services

- **5210** Central banking (Bank of Mexico)
- **5221** Commercial banking, and private sector fund and trust management
- **5222** Other non-stock market credit and financial intermediation institutions in the private sector
- **5223** Development banking, and public sector fund and trust management
- **5229** Insufficiently specified descriptions of non-stock market financial services
- **5230** Stock market, currency exchange, and financial investment activities
- **5240** Surety, insurance, and pension companies
- **5299** Insufficiently specified descriptions of subsectors within Sector 52

11 - Real Estate and Rental of Tangible and Intangible Goods

- **5310** Real estate services
- **5321** Rental services of automobiles, trucks, and other land transportation
- **5322** Rental services and rental centres of movable goods, except land transportation equipment
- **5330** Rental services of trademarks, patents, and franchises
- **5399** Insufficiently specified descriptions of subsectors within Sector 53

12 - Professional, Scientific, and Technical Services

- **5411** Professional, scientific, and technical services
- **5412** Scientific research and development services
- **5413** Veterinary services
- **5414** Photography services

13 - Corporate Management

- **5510** Corporate offices

14 - Business Support Services, Waste Management, and Remediation Services

- **5611** Business support services, employment services, secretarial support, and other business assistance services
- **5612** Interior cleaning of airplanes, ships, and trains
- **5613** Cleaning services, and installation and maintenance of green areas
- **5614** Investigation, protection, and security services
- **5615** Travel agencies and reservation services
- **5616** Combined facility support services
- **5620** Waste management and remediation services

15 - Educational Services

- **6111** Private schools for basic, middle, and special education
- **6112** Public schools for basic, middle, and special education
- **6119** Unspecified sector (private/public) schools for basic, middle, and special education
- **6121** Private post-secondary non-university education institutions
- **6122** Public post-secondary non-university education institutions
- **6129** Post-secondary non-university education institutions
- **6131** Private higher education institutions
- **6132** Public higher education institutions
- **6139** Unspecified sector (private/public) higher education institutions
- **6141** Other private educational services
- **6142** Other public educational services
- **6149** Other unspecified sector (private/public) educational services
- **6150** Educational support services
- **6199** Insufficiently specified descriptions of subsectors within Sector 61

16 - Health and Social Assistance Services

- **6211** Private outpatient medical and related services
- **6212** Public outpatient medical and related services
- **6219** Unspecified sector (private/public) outpatient medical and related services
- **6221** Private hospitals
- **6222** Public hospitals
- **6229** Unspecified sector (private/public) hospitals
- **6231** Private social and health care residential facilities
- **6232** Public social and health care residential facilities
- **6239** Unspecified sector (private/public) social and health care residential facilities
- **6241** Other private social assistance services
- **6242** Other public social assistance services
- **6249** Other unspecified sector (private/public) social assistance services
- **6251** Private childcare services
- **6252** Public childcare services
- **6259** Unspecified sector (private/public) childcare services
- **6299** Insufficiently specified descriptions of subsectors within Sector 62, Health and Social Assistance Services

17 - Cultural, Sports, and Recreational Entertainment Services

- **7111** Artistic performance companies and groups
- **7112** Professional and semi-professional athletes and sports teams
- **7113** Promoters, agents, and representatives of artistic, sports, and similar events
- **7114** Independent artists, writers, and technicians
- **7115** Itinerant entertainment workers
- **7120** Museums, historical sites, zoos, and similar institutions
- **7131** Parks with recreational facilities and electronic game arcades
- **7132** National lottery ticket sales
- **7133** Street vending of national lottery tickets

18 - Temporary Accommodation and Food and Beverage Preparation Services

- **7210** Temporary accommodation services
- **7221** Food and beverage preparation services
- **7222** Food and beverage preparation services by street vendors
- **7223** Nightclubs

19 - Other Services Except Governmental Activities

- **8111** Automobile and truck repair and maintenance services
- **8112** Repair and maintenance of equipment, machinery, household, and personal items
- **8119** Insufficiently specified repair and maintenance services
- **8121** Personal services
- **8122** Parking lots and garages for motor vehicles

- **8123** Car care and washing services by itinerant workers
- **8124** Photo developing and printing services
- **8125** Cemetery management services
- **8130** Associations and organizations
- **8140** Households with domestic workers

20 – Government and International or Extraterritorial Organisations

- **9311** Legislative bodies
- **9312** Federal government administration
- **9313** State government administration
- **9314** Municipal government administration
- **9319** Government administration with unspecified level
- **9320** International and extraterritorial organisations

21 - Unspecified Sector of Activity

- **9999** Unspecified sector of activity

SINCO Classification System (Short version).

Mexico also employs a classification system that does not rely on firm characteristics but instead on the attributes of the work that respondents perform. In other words, it is based on job characteristics rather than firm characteristics. This system, known as SINCO (Sistema Nacional de Clasificación de Ocupaciones), closely mirrors the International Labour Organisation's occupational framework, ISCO (International Standard Classification of Occupations).

SINCO is structured as follows

- Division – 1 digit
- Group – 2 digits
- Subgroup – 3 digits
- Unit group – 4 digits

To facilitate understanding of this occupational classification system, two lists are presented below. The first list shows the classification at the division level (one digit) and group level (two digits). The second list provides a more detailed breakdown, including the subgroup (three digits) and unit group (four digits).

As with the NAICS codes, these classifications were obtained from INEGI (2015) and translated using artificial intelligence to assist readers unfamiliar with Spanish. For authoritative definitions, verification, or additional detail regarding any of the occupational categories listed below, please refer to the original Spanish documentation from INEGI (2015).

1 Officials, Directors, and Heads

- 11 Officials and senior authorities in the public, private, and social sectors
- 12 Directors and managers in financial, legal, administrative, and social services
- 13 Directors and managers in production, technology, and transport
- 14 Directors and managers of sales, restaurants, hotels, and other establishments
- 15 Coordinators and area heads in financial, administrative, and social services
- 16 Coordinators and area heads in production and technology
- 17 Coordinators and area heads of sales, restaurants, hotels, and other establishments
- 19 Other directors, officials, managers, coordinators, and area heads not elsewhere classified

2 Professionals and Technicians

- 21 Professionals in economic-administrative sciences, social sciences, humanities, and the arts
- 22 Researchers and professionals in exact sciences, biological sciences, engineering, computing, and telecommunications
- 23 Teachers and teaching specialists
- 24 Doctors, nurses, and other health specialists
- 25 Assistants and technicians in economic-administrative sciences, social sciences, humanities, and the arts
- 26 Assistants and technicians in exact sciences, biological sciences, engineering, computing, and telecommunications
- 27 Assistants and technicians in education, instructors, and trainers
- 28 Nurses, medical technicians, and health support workers
- 29 Other professionals and technicians not elsewhere classified

3 Support Workers in Administrative Activities

- 31 Supervisors of administrative support staff, secretaries, data-entry clerks, cashiers, and archival and transport-control workers
- 32 Supervisors and workers who provide and manage information
- 39 Other support workers in administrative activities not elsewhere classified

4 Traders, Sales Employees, and Sales Agents

- 41 Shop-based traders
- 42 Shop-based sales employees
- 43 Rental service workers
- 49 Other traders, sales employees, and sales agents in establishments not elsewhere classified

5 Personal Service and Security Workers

- 51 Workers in the preparation and service of food and beverages, as well as in entertainment and hospitality services

- 52 Personal care and domestic workers
- 53 Protection and security service workers
- 54 Navy, Army, and Air Force personnel

6 Agricultural, Livestock, Forestry, Hunting, and Fishing Workers

- 61 Agricultural and livestock workers
- 62 Fishing, forestry, hunting, and similar workers
- 63 Operators of agricultural and forestry machinery
- 69 Other agricultural, livestock, forestry, hunting, and fishing workers not elsewhere classified

7 Craft Workers, Construction Workers, and Other Trades

- 71 Extraction workers and construction builders
- 72 Craftspeople and workers in metal treatment and product manufacturing
- 73 Craftspeople and workers in wood, paper, textile, leather, and hide product manufacturing
- 74 Craftspeople and workers in rubber, plastics, and chemical-substance product manufacturing
- 75 Workers in the production and processing of food, beverages, and tobacco products
- 76 Craftspeople and workers in ceramic, glass, tile, and similar product manufacturing
- 79 Other crafts workers not elsewhere classified

8 Industrial Machinery Operators, Assemblers, Drivers, and Transport Operators

- 81 Operators of industrial facilities and machinery
- 82 Assemblers and fitters of tools, machinery, metal products, and electronics
- 83 Transport drivers and mobile machinery operators
- 89 Other industrial machinery operators, assemblers, and transport drivers not elsewhere classified

9 Elementary and Support Workers

- 91 Support workers in agriculture, livestock, forestry, fishing, and hunting
- 92 Support workers in mining, construction, and industry
- 93 Assistants to transport drivers, human- or animal-drawn transport operators, and loaders
- 94 Food-preparation assistants
- 95 Street vendors
- 96 Domestic workers, cleaners, ironers, and other cleaning workers
- 97 Parcel workers, stage-support workers, messengers, and goods delivery workers
- 98 Other elementary and support workers not elsewhere classified
- 99 Unspecified occupations

SINCO Classification System (Long version).

The following list shows classification by division (1 digit), group (2 digits), subgroup (3 digits) and unit group (4 digits). In this research, the “unit group” with 4 digits is referred to as the “job code”.

It should be noted that SINCO and ISCO do not classify occupations by economic sector (agriculture, industry, services). These systems are organised according to job-related characteristics, grouping occupations by tasks, duties, and required skills (skill levels and specialisations). While highly useful for analytical purposes, they exhibit classification mismatches that may complicate empirical work.

For instance, the system assigns an entire group to nurses: (28) Nurses, medical technicians and health support workers. Yet some specialised nurses are classified within the doctors' group rather than nursing: 2436 Professional nurses and paramedics, which falls under (24) Doctors, nurses and other health specialists.

Similarly, agriculture has its own category: (6) Agricultural, livestock, forestry, hunting, and fishing workers, which consists of (61) Agricultural and livestock workers; (62) Fishing, forestry, hunting, and similar workers; (63) Operators of agricultural and forestry machinery. Yet SINCO includes a separate category, (91) Support workers in agriculture, livestock, forestry, fishing, and hunting, placed in a different group because the system considers such roles to require lower skills.

The same occurs with accounting: (1212) Directors and managers in accounting, financial services, banking and insurance; (1512) Coordinators and area heads in accounting, financial services, banking and insurance; (2121) Accountants and auditors; (2512) Assistants in accounting, finance and stockbroking. Although all are employed in accounting, each category falls into a different group according to their skill levels. For instance, Directors in accounting are not part of an ‘Accounting’ group, they are part of the ‘Management’ group.

Something similar occurs with sales. SINCO also has a group to identify people working in sales: (42) Sales employees in establishments. However, this area contains categories that are not sales: 4232 Hostesses; 4233 Fashion, art and advertising models. In addition, several job codes of people working in sales are not part of the SINCO group to classify people in sales: (1411) Directors and managers of sales, marketing and rental; (1711) Coordinators and area heads of sales, marketing and rental; (2511) Assistants in administration, marketing, sales and foreign trade. All these job codes are part of different groups, rather than being included in group (42) Sales employees.

Therefore, the rationale of the classification system presented below may be slightly difficult to interpret for some readers.

1 Officials, directors and heads

11 Officials and senior authorities in the public, private and social sectors

111 Officials, legislators and government authorities

1111 Senior government and judicial authorities

1112 Legislators

1113 Municipal presidents and authorities

112 Presidents and general directors

1121 Presidents and general directors in public institutions

1122 Presidents and general directors in private institutions and enterprises

1129 Other presidents and general directors, not elsewhere classified

113 Directors of political, union and civil organisations

1131 Directors of political organisations

1132 Directors of trade-union organisations

1133 Directors of business organisations

1134 Directors of agrarian organisations

1135 Directors of civil and religious organisations

12 Directors and managers in financial, legal, administrative and social services

121 Directors and managers in financial and administrative services

1211 Directors and managers in administration, human resources and marketing

1212 Directors and managers in accounting, financial services, banking and insurance

122 Directors and managers in health, education and social services

1221 Directors and managers in health services, civil protection and the environment
1222 Directors and managers in social and economic development
1223 Directors and managers in educational and training centres
1224 Court judges, directors and managers in legal services and public prosecution
1225 Commanders in the Navy, Army and Air Force
1226 Directors in security and surveillance services

13 Directors and managers in production, technology and transport
131 Directors and managers in agricultural, industrial, construction and maintenance production
1311 Directors and managers in agricultural, forestry and fishing production
1312 Directors and managers in mining, oil and gas production
1313 Directors and managers in the generation and supply of electric power and water
1314 Directors and managers in manufacturing production
1315 Directors and managers in construction, repair and maintenance of machinery and industrial equipment, telecommunications, transport, etc.
1319 Other directors and area managers in agricultural, industrial, construction and maintenance production, not elsewhere classified
132 Directors and managers in computing, telecommunications, transport and in research and technological development
1321 Directors and managers in computing
1322 Directors and managers in communication and telecommunications
1323 Directors and managers in transport services
1324 Directors and managers in research and technological development centres
1329 Other directors and managers in computing, telecommunications, transport and in research and technological development, not elsewhere classified

14 Directors and managers of sales, restaurants, hotels and other establishments
141 Directors and managers of sales, restaurants and hotels
1411 Directors and managers of sales, marketing and rental
1412 Directors and managers of restaurants and hotels
142 Directors and managers of museums, cinemas and other establishments
1421 Directors and artistic producers for film, theatre and related activities
1422 Directors and managers of museums, cinemas and other sports and cultural establishments
1423 Directors and managers in funeral and other services

15 Coordinators and area heads in financial, administrative and social services
151 Coordinators and area heads in financial and administrative services
1511 Coordinators and area heads in administration, human resources and marketing
1512 Coordinators and area heads in accounting, financial services, banking and insurance
152 Coordinators and area heads in health, education, social services and examining judges
1521 Coordinators and area heads in health services, civil protection and the environment
1522 Coordinators and area heads in social and economic development
1523 Coordinators and area heads in educational and training centres
1524 Coordinators and area heads in legal services, examining judges and prosecutors
1525 Captains, lieutenant colonels and area heads in the Navy, Army and Air Force
1526 Coordinators and area heads in security and surveillance services

16 Coordinators and area heads in production and technology
161 Coordinators and area heads in agricultural, industrial, construction and maintenance production
1611 Coordinators and area heads in agricultural, forestry and fishing production
1612 Coordinators and area heads in mining, oil and gas production
1613 Coordinators and area heads in the generation and supply of electric power and water
1614 Coordinators and area heads in manufacturing production
1615 Coordinators and area heads in construction, repair and maintenance of machinery and industrial equipment, telecommunications, transport, etc.
1619 Other coordinators and area heads in agricultural, industrial, construction and maintenance production, not elsewhere classified
162 Coordinators and area heads in computing, telecommunications, transport and in research and technological development
1621 Coordinators and area heads in computing

1622 Coordinators and area heads in communication and telecommunications
1623 Coordinators and area heads in transport services
1624 Coordinators and area heads in research and technological development centres
1629 Other coordinators and area heads in computing, telecommunications, transport and in research and technological development, not elsewhere classified

17 Coordinators and area heads of sales, restaurants, hotels and other establishments
171 Coordinators and area heads of sales, restaurants and hotels
1711 Coordinators and area heads of sales, marketing and rental
1712 Coordinators and area heads of restaurants and hotels
172 Coordinators and area heads in museums, cinemas and other establishments
1721 Coordinators and area heads in artistic, film, theatre and related activities
1722 Coordinators and area heads in museums, cinemas, sports and cultural services
1723 Coordinators and area heads in funeral and other services

19 Other directors, officials, managers, coordinators and area heads, not elsewhere classified
199 Other directors, officials, managers, coordinators and area heads, not elsewhere classified
1999 Other directors, officials, managers, coordinators and area heads, not elsewhere classified

2 Professionals and technicians

21 Professionals in economic-administrative sciences, social sciences, humanities and the arts
211 Administrators and marketing specialists
2111 Administrators and professionals in human resources and management systems
2112 Professionals and consultants in marketing, advertising, communication and foreign trade
2113 Professionals in hospitality and tourism
212 Accountants, auditors and finance professionals
2121 Accountants and auditors
2122 Financial advisers and analysts
213 Researchers and professionals in social sciences
2131 Anthropologists, archaeologists and historians
2132 Researchers and professionals in sociology and social development
2133 Researchers and professionals in political science and public administration
2134 Geographers
2135 Lawyers
2136 Economists, consultants and researchers in economic policy
214 Researchers and professionals in humanities
2141 Researchers and professionals in philosophy and literature (philologists)
2142 Psychologists
2143 Social work professionals
2144 Professionals in archives, library science and museum studies
2145 Priests, pastors and other theologians
215 Writers, journalists and translators
2151 Writers and literary critics
2152 Journalists and editors
2153 Translators and interpreters
216 Painters, artistic designers and draughtsmen, sculptors and set designers
2161 Painters
2162 Artistic draughtsmen and designers, illustrators and engravers
2163 Sculptors
2164 Set designers
217 Performing artists
2171 Composers and arrangers
2172 Musicians
2173 Singers
2174 Dancers and choreographers
2175 Actors

22 Researchers and professionals in exact sciences, biological sciences, engineering, computing and telecommunications

221 Researchers and professionals in physics, mathematics, statistics and actuarial science
 2211 Researchers and professionals in physics and astronomy
 2212 Researchers and professionals in mathematics, statistics and actuarial science
 222 Researchers and professionals in biological, chemical and environmental sciences
 2221 Biologists, marine scientists and oceanographers
 2222 Chemists
 2223 Ecologists and professionals in atmospheric sciences
 223 Professionals in agronomic sciences
 2231 Agronomists
 2232 Veterinarians and animal-science specialists
 2233 Professionals in afforestation, forestry and similar activities
 2234 Professionals in fishing and aquaculture
 224 Electrical and electronics engineers
 2241 Electrical engineers
 2242 Electronics engineers
 225 Chemical, mechanical, industrial, mining and metallurgical engineers
 2251 Chemical engineers
 2252 Mechanical engineers
 2253 Industrial engineers
 2254 Mining, metallurgical and petroleum engineers
 226 Civil engineers, surveyors and architects
 2261 Civil and construction engineers
 2262 Surveying, hydrology, geology and geodesy engineers
 2263 Architects, urban and transport planners
 227 Researchers and professionals in computer systems
 2271 Software and multimedia developers and analysts
 2272 Database and computer network administrators
 228 Communications and telecommunications engineers
 2281 Communications and telecommunications engineers

23 Teachers and teaching specialists
 231 Educational supervisors and specialists in education sciences
 2311 Educational supervisors and inspectors
 2312 Educationalists, guidance counsellors and other specialists in education sciences
 232 Upper-secondary and higher-education teachers
 2321 University and higher-education teachers
 2322 Upper-secondary (preparatory) and equivalent level teachers
 233 Basic-education teachers
 2331 Lower-secondary school teachers
 2332 Primary school teachers
 2333 Literacy teachers
 2334 Bilingual (indigenous) education teachers
 2335 Pre-school teachers
 2339 Other basic-education teachers, not elsewhere classified
 234 Special-education teachers
 2341 Teachers for people with hearing and speech impairments
 2342 Teachers for people with learning difficulties
 2343 Other special-education teachers
 239 Other teachers and teaching specialists, not elsewhere classified
 2399 Other teachers and teaching specialists, not elsewhere classified

24 Doctors, nurses and other health specialists
 241 General practitioners and dentists
 2411 General and family doctors
 2412 Dentists
 242 Specialist doctors
 2421 Anaesthesiologists
 2422 Surgeons
 2423 Gynaecologists and obstetricians
 2424 Resident doctors

2425 Pathologists
2426 Paediatricians
2427 Psychiatrists
2428 Radiologists
2429 Other specialist doctors
243 Other health specialists
2431 Biomedical engineers
2432 Optometrists
2433 Nutritionists
2434 Professionals in occupational safety and hygiene and public health
2435 Professionals in traditional and alternative medicine
2436 Professional nurses and paramedics
2437 Physiotherapists and speech therapists
2438 Pharmacologists

25 Assistants and technicians in economic-administrative sciences, social sciences, humanities and the arts

251 Assistants in administration, accounting and finance
2511 Assistants in administration, marketing, sales and foreign trade
2512 Assistants in accounting, finance and stockbroking
2513 Customs brokers
2514 Appraisers, auctioneers and liquidators
252 Public inspectors
2521 Public prosecutor's officers and detectives
2522 Customs and border officers
2523 Tax collection and licensing officers
2524 Inspectors in social security, prices and other public inspectors
253 Assistants in social sciences and humanities
2531 Assistants in social sciences and humanities
2532 Assistants in legal services
2533 Nuns and preachers
254 Fashion, industrial, graphic designers and interior decorators
2541 Fashion and clothing designers
2542 Industrial designers
2543 Graphic designers
2544 Interior, garden and miscellaneous-materials decorators (mugs, keyrings, etc.)
255 Presenters, entertainers and clowns
2551 Radio, television and other media presenters
2552 Entertainers and event organisers
2553 Clowns, mimes and circus performers
256 Athletes, coaches and referees
2561 Athletes
2562 Sports coaches and managers
2563 Sports referees and judges

26 Assistants and technicians in exact sciences, biological sciences, engineering, computing and telecommunications

261 Assistants and technicians in physical, mathematical, biological, chemical, environmental and agronomic sciences
2611 Assistants and technicians in physics, astronomy, mathematics, statistics and actuarial science
2612 Assistants and technicians in biological, chemical and environmental sciences
2613 Assistants and technicians in agronomy
2614 Assistants and technicians in veterinary science, fishing and afforestation
262 Industrial, surveying, mining and technical drawing assistants and technicians
2621 Industrial and chemical assistants and technicians
2622 Surveying, hydrology and geology assistants and technicians
2623 Mining, metallurgical and petroleum assistants and technicians
2624 Assistants and technicians in civil engineering, construction and architecture
2625 Technical draughtsmen
263 Mechanics and technicians in the maintenance and repair of mechanical equipment, motor vehicles, industrial instruments and refrigeration equipment

2630 Supervisors of mechanics and technicians in the maintenance and repair of mechanical equipment, motor vehicles, industrial instruments and refrigeration equipment
2631 Technicians in the maintenance and repair of motor vehicles
2632 Mechanics in the maintenance and repair of motor vehicles
2633 Technicians in the maintenance and repair of industrial machinery and instruments
2634 Mechanics in the maintenance and repair of industrial machinery and instruments
2635 Technicians in the installation, repair and maintenance of refrigeration equipment, climate-control and air-conditioning units
2636 Mechanics in the installation, maintenance and repair of refrigeration equipment, climate-control and air-conditioning units
2637 Technicians in the maintenance and repair of precision and musical instruments
2638 Mechanics in the maintenance and repair of precision and musical instruments
2639 Other occupations of mechanics and technicians in the maintenance and repair of mechanical equipment, motor vehicles and industrial instruments, not elsewhere classified
264 Electrical, electronics, telecommunications-equipment and electromechanical technicians
2640 Supervisors of electrical, electronics, telecommunications-equipment and electromechanical technicians
2641 Electrical technicians
2642 Electricians and linesmen
2643 Technicians in the installation and repair of electronic equipment, telecommunications and household appliances (except computer equipment)
2644 Workers in the installation and repair of electronic equipment, telecommunications and household appliances (except computer equipment)
2645 Technicians in the repair of electromechanical equipment
2646 Workers in the repair of electromechanical equipment
2649 Other electrical, electronics, telecommunications-equipment and electromechanical technicians, not elsewhere classified
265 Assistants and technicians in computing and in communications and recording equipment
2651 Technicians in the installation and repair of networks, equipment and computer systems
2652 Technicians in radio-equipment operations
2653 Assistants and technicians in video-recording and playback equipment
2654 Assistants and technicians in audio, sound and lighting engineering
2655 Photographers
266 Air-traffic and other transport controllers
2661 Air-traffic controllers
2662 Traffic controllers in other transport modes (road, rail and maritime)

27 Educational assistants and technicians, instructors and trainers
271 Educational assistants and technicians, instructors and trainers
2711 Assistants and technicians in pedagogy and education
2712 Instructors in artistic studies and training
2713 Instructors in commercial and administrative studies and training
2714 Foreign-language instructors
2715 Instructors and trainers in trades and work skills
2716 Physical-education and sports instructors

28 Nurses, medical technicians and health support workers
281 Nurses and medical technicians
2811 (Technical) nurses
2812 Technicians in diagnostic equipment, medical treatment, chiropody and physiotherapy
2813 Medical laboratory technicians
2814 Pharmaceutical technicians and assistants
2815 Medical and dental prosthesis technicians
2816 Dietetic and nutrition technicians
2817 Alternative-medicine technicians
282 Health support workers
2821 Nursing assistants and paramedics
2822 Dental assistants and auxiliaries
2823 Hospital and medical assistants
2824 Midwives
2825 Occupational safety and hygiene technicians

2826 Healers, herbalists and traditional bone-setters
2827 Fumigators and pest-control workers

29 Other professionals and technicians not elsewhere classified
299 Other professionals and technicians not elsewhere classified
2991 Other professionals not elsewhere classified
2992 Other technicians not elsewhere classified

3 Auxiliary workers in administrative activities

31 Supervisors of administrative support staff, secretaries, data-entry clerks, cashiers and workers in file and transport control
310 Supervisors of secretaries, data-entry clerks, cashiers and workers in file and transport control
3101 Supervisors of secretaries, data-entry clerks, cashiers and workers in file and transport control
311 Secretaries, stenographers, typists, data-entry clerks and office-machine operators
3111 Secretaries
3112 Stenographers, typists and similar workers
3113 Data-entry clerks
3114 Office-machine operators
3115 General administrative support workers
312 Cashiers, collectors and pay clerks
3121 Cashiers, ticket clerks, betting-office clerks and similar workers
3122 Collectors, pay clerks and moneylenders
313 Filing, warehouse and storeroom-control workers
3131 Filing and correspondence workers
3132 Warehouse and storeroom-control workers
314 Workers in transport-operation control
3141 Transport despatchers
3142 Transport checkers and inspectors

32 Supervisors and workers who provide and handle information
320 Supervisors of workers who provide and handle information
3201 Supervisors of workers who provide and handle information
321 Receptionists, information clerks and telephone operators
3211 Receptionists and information clerks (in person)
3212 Information clerks by telephone (call-centre workers) and announcers
3213 Telephone and telegraph operators
322 Workers in travel agencies and tourist information
3221 Travel-agency workers
3222 Tourist guides in museums, casinos, parks, cinemas and other recreational centres
323 Interviewers and coders
3231 Interviewers
3232 Information coders

39 Other auxiliary workers in administrative activities, not elsewhere classified
399 Other auxiliary workers in administrative activities, not elsewhere classified
3999 Other auxiliary workers in administrative activities, not elsewhere classified

4 Traders, sales employees and sales agents

41 Traders in establishments
411 Traders in establishments
4111 Traders in establishments

42 Sales employees in establishments
420 Supervisors and persons in charge of sales of products and financial services
4201 Supervisors and persons in charge of sales of products and financial services
421 Sales employees and telephone salespersons
4211 Sales employees, counter clerks and shop assistants
4212 Shelf-stackers, stock arrangers and selectors of goods and vending-machine fillers

4213 Telephone salespersons
4214 Driver-salespersons
422 Agents, sales representatives and catalogue sellers
4221 Sales agents, representatives and commission agents
4222 Insurance and financial-services agents (account executives)
4223 Real-estate agents
4224 Catalogue sellers
423 Workers in sales promotion and models
4231 Demonstrators and promoters
4232 Hostesses
4233 Fashion, art and advertising models

43 Rental-service workers
430 Supervisors in rental services
4301 Supervisors in rental services
431 Rental-service workers
4311 Workers in real-estate rental services
4312 Workers in movable-goods rental services

49 Other traders, sales employees and sales agents in establishments, not elsewhere classified
499 Other traders, sales employees and sales agents in establishments, not elsewhere classified
4999 Other traders, sales employees and sales agents in establishments, not elsewhere classified

5 Personal-service and security workers

51 Workers in the preparation and service of food and beverages, and in recreation and hotel services
510 Supervisors in the preparation and service of food and beverages, and in recreation and hotel services
5101 Supervisors in the preparation and service of food and beverages, and in recreation and hotel services
511 Workers in the preparation and service of food and beverages in establishments
5111 Cooks
5112 Stallholders, vendors and food traders
5113 Domestic cooks
5114 Taco sellers and preparers of fast food, snacks, pizzas, hot dogs, juices, coffee, etc.
5115 Bartenders
5116 Waiters
5119 Other workers in the preparation and service of food and beverages in establishments

52 Personal-care and domestic workers
520 Supervisors and persons in charge of personal-care and domestic workers
5201 Supervisors and persons in charge of personal-care and domestic workers
521 Hairdressers, beauty workers and similar occupations
5211 Hairdressers, barbers, stylists and hairdressers (female stylists)
5212 Make-up artists, manicurists, pedicurists and tattooists
5213 Bath attendants and masseurs
522 Care workers
5221 Care workers for children, persons with disabilities and older persons in establishments
5222 Care workers for children, persons with disabilities and older persons in private households
523 Flight attendants
5231 Flight attendants
524 Gardeners
5241 Gardeners in establishments
5242 Gardeners in private households
525 Workers in other personal services
5251 Astrologers, fortune-tellers and related occupations
5252 Sex workers
5253 Funeral-service workers
5254 Animal trainers and occupations related to pet care
529 Other personal-service workers not elsewhere classified
5299 Other personal-service workers not elsewhere classified

53 Protection and security-service workers
530 Supervisors in protection and security services
5301 Supervisors in protection and security services
531 Protection and security-service workers
5311 Firefighters
5312 Police officers and traffic wardens
5313 Security guards in establishments
5314 Security guards and porters in private households
5319 Other protection and security-service workers

54 Navy, Army and Air Force workers
540 Supervisors in the Navy, Army and Air Force
5401 Supervisors in the Navy, Army and Air Force
541 Navy, Army and Air Force workers
5411 Air Force workers
5412 Navy workers
5413 Army workers
5419 Other Navy, Army and Air Force workers, not elsewhere classified

6 Agricultural, livestock, forestry, hunting and fishing workers

61 Agricultural and livestock workers
610 Agricultural supervisors, overseers and foremen
6101 Agricultural supervisors, overseers and foremen
611 Agricultural workers
6111 Workers cultivating maize and/or beans
6112 Workers cultivating vegetables and greens
6113 Workers cultivating coffee, cocoa and tobacco
6114 Workers cultivating fruit trees
6115 Flower-growing workers
6116 Workers in other agricultural crops
6117 Workers in the processing of agricultural products
6119 Other agricultural workers, not elsewhere classified
612 Livestock and animal-rearing workers
6121 Workers in cattle-raising
6122 Workers in pig-rearing
6123 Poultry-farming workers
6124 Goat- and sheep-rearing workers
6125 Horse-breeding workers
6126 Beekeepers
6127 Workers in the rearing and care of other types of animals
6128 Workers in the processing of livestock products
6129 Other livestock and animal-rearing workers, not elsewhere classified
613 Workers combining agricultural and livestock activities
6131 Workers combining agricultural and livestock activities

62 Fishing, forestry, hunting and related workers
620 Supervisors, overseers and foremen of fishing, aquaculture, forestry, hunting and related workers
6201 Supervisors, overseers and foremen of fishing, aquaculture, forestry, hunting and related workers
621 Fishing and aquaculture workers
6211 Fishing-industry workers
6212 Aquaculture workers
6213 Workers in the processing of fishery or aquaculture products
622 Forestry and silviculture workers
6221 Loggers, fellers and similar workers
6222 Rubber-tappers, chicle-tappers, resin collectors and similar workers
6223 Nursery and greenhouse workers
6224 Workers in planting, reforestation and forest-conservation activities
6225 Firewood cutters
6226 Workers in the collection of uncultivated plants, herbs and roots

6227 Charcoal producers
623 Hunting and trapping workers and similar occupations
6231 Workers in hunting, trapping and similar activities

63 Agricultural and forestry machinery operators
631 Agricultural and forestry machinery operators
6311 Agricultural and forestry machinery operators

69 Other agricultural, livestock, forestry, hunting and fishing workers, not elsewhere classified
699 Other agricultural, livestock, forestry, hunting and fishing workers, not elsewhere classified
6999 Other agricultural, livestock, forestry, hunting and fishing workers, not elsewhere classified

7 Craft workers, construction workers and other trades

71 Extraction and building-construction workers
710 Supervisors of extraction workers, bricklayers and finishing workers in construction
7101 Supervisors of extraction workers, bricklayers and finishing workers in construction
711 Extraction workers
7111 Miners and extraction workers in metallic-mineral mines
7112 Workers in quarrying and extraction of clay, sand, stone and gravel
7113 Blasters and divers in well drilling and construction
712 Bricklayers and other building-construction workers
7121 Bricklayers, masons and related workers
7122 Roofers (thatchers and similar)
7123 Structural carpenters
713 Plasterers, floor-layers, installers of air-conditioning, waterproofing, glass, etc., plumbers and painters
7131 Plasterers, stucco workers and other ceiling and wall finishers
7132 Floor, tile, mosaic and flagstone installers
7133 Installers of insulation, waterproofing, glass and other materials
7134 Plumbers and pipefitters
7135 House-painting brush workers
719 Other workers related to extraction and building construction, not elsewhere classified
7199 Other workers related to extraction and building construction, not elsewhere classified

72 Craftspeople and workers in the treatment and manufacture of metal products
720 Supervisors of craftspeople and workers in the treatment and manufacture of metal products
7201 Supervisors of craftspeople and workers in the treatment and manufacture of metal products
721 Moulders, welders, tinsmiths and metal painters
7211 Moulders, turners and die-makers
7212 Welders and gas-cutters
7213 Tinsmiths, panel beaters, sheet-metal workers, coppersmiths and metal painters
7214 Metal-structure assemblers
722 Blacksmiths, locksmiths, jewellers and craftspeople in the manufacture of metal products
7221 Blacksmiths, balcony-grille makers, aluminium workers and forgers
7222 Locksmiths, sharpeners and metal and tool polishers
7223 Jewellers, goldsmiths, silversmiths and precious-metal polishers
729 Other workers related to the treatment and manufacture of metal products, not elsewhere classified
7299 Other workers related to the treatment and manufacture of metal products, not elsewhere classified

73 Craftspeople and workers in the manufacture of wood, paper, textile, leather and hide products
730 Supervisors of craftspeople and workers in the manufacture of wood, paper, textile, leather and hide products
7301 Supervisors of craftspeople and workers in the manufacture of wood, paper, textile, leather and hide products
731 Craftspeople and workers in the manufacture of wood products
7311 Carpenters, cabinetmakers and planers in wood-product manufacture
7312 Wood painters and varnishers
7313 Craftspeople of wicker, reed, palm, cane, rattan and similar products, except wood
732 Craftspeople and workers in the manufacture of paper, cardboard and printing products
7321 Craftspeople and workers in the manufacture of paper and cardboard products

7322 Printers, linotypists, photoengravers and bookbinders
 7323 Photographic developers and printers
 733 Workers in the preparation of textile fibres and textile weavers
 7331 Workers in the preparation of fibres and yarns
 7332 Textile weavers
 734 Craftspeople in the manufacture of textile, leather, hide and similar products
 7341 Tailors and dressmakers, seamstresses and makers of garments and clothing accessories in fabric, leather, hide and similar materials
 7342 Craftspeople and makers of textile, leather, hide and substitute-material products (except garments and footwear)
 7343 Embroiderers and drawn-thread workers
 7344 Pattern-makers of textile, leather, hide and similar products
 735 Upholsterers and workers in the treatment and manufacture of leather and hide products
 7351 Upholsterers
 7352 Furriers, cutters, tanners and dyers of leather, hide and similar materials
 7353 Artisan shoemakers
 739 Other workers related to the manufacture of wood, paper, textile, leather and hide products, not elsewhere classified
 7399 Other workers related to the manufacture of wood, paper, textile, leather and hide products, not elsewhere classified

 74 Craftspeople and workers in the manufacture of rubber, plastics and chemical-substance products
 740 Supervisors of craftspeople and workers in the manufacture of rubber, plastics and chemical-substance products
 7401 Supervisors of craftspeople and workers in the manufacture of rubber, plastics and chemical-substance products
 741 Craftspeople and workers in the manufacture of rubber, plastics and chemical-substance products
 7411 Workers in the manufacture and repair of rubber, plastics products and tyre vulcanisation
 7412 Workers in the manufacture of chemical substances and products

 75 Workers in the manufacture and processing of food, beverages and tobacco products
 750 Supervisors of workers in the manufacture and processing of food, beverages and tobacco products
 7501 Supervisors of workers in the manufacture and processing of food, beverages and tobacco products
 751 Workers in the manufacture and processing of food, beverages and tobacco products
 7511 Workers in the manufacture of meat, fish and related products
 7512 Workers in the manufacture of dairy products
 7513 Workers in the manufacture of bread, tortillas, pastries and other cereal- and flour-based products
 7514 Workers in the manufacture of products based on fruit, vegetables and pulses
 7515 Workers in the manufacture of products based on sugar, chocolate and confectionery
 7516 Workers in the manufacture of oils, fats, salt and spices
 7517 Workers in the manufacture of alcoholic and non-alcoholic beverages
 7518 Workers in the manufacture of tobacco products
 759 Other workers related to the manufacture and processing of food, beverages and tobacco products, not elsewhere classified
 7599 Other workers related to the manufacture and processing of food, beverages and tobacco products, not elsewhere classified

 76 Craftspeople and workers in the manufacture of ceramic, glass, tile and similar products
 760 Supervisors of craftspeople and workers in the manufacture of ceramic, glass, tile and similar products
 7601 Supervisors of craftspeople and workers in the manufacture of ceramic, glass, tile and similar products
 761 Craftspeople and workers in the manufacture of ceramic, glass, tile and similar products
 7611 Potters and ceramic workers
 7612 Workers in the manufacture of cement, lime, plaster, tile, stone and bricks
 7613 Glass and related-product workers
 7614 Workers in the manufacture of bone, shell, coral and similar products
 79 Other craft workers not elsewhere classified
 799 Other craft workers not elsewhere classified
 7999 Other craft workers not elsewhere classified

8 Industrial machinery operators, assemblers, drivers and transport operators

81 Industrial plant and machinery operators

810 Supervisors of industrial-machinery operators

8101 Supervisors of industrial-machinery operators

811 Operators of machinery and equipment for extraction in mines, quarries and wells

8111 Operators of machinery and equipment for extraction and processing in mines and quarries

8112 Operators of machinery and equipment for extraction in oil wells

8113 Operators of machinery and equipment for water capture, pumping and distribution

8114 Operators of specialised portable equipment for construction

812 Operators of machinery and equipment in metallurgical manufacturing, machinery and metal-product manufacture

8121 Operators of metallurgical furnaces, pourers and rolling-mill operators and operators of metal drawing and stretching machines

8122 Operators of metal polishing, galvanising and coating machines

8123 Operators of machines that cut, drill, bend, stamp, weld, etc., metal pieces and products

813 Operators of machinery and equipment in the manufacture of chemical products, plastics, water treatment and petrochemicals

8131 Operators of machinery for the manufacture of chemical products

8132 Operators of machinery for the manufacture of pharmaceutical and cosmetic products

8133 Operators of machinery for the manufacture and assembly of plastic and rubber products

8134 Operators of machinery for water treatment

8135 Operators of machinery and equipment for oil and gas refining

814 Operators of machinery for wood and paper

8141 Operators of machinery for wood treatment and the manufacture of particleboard and plywood

8142 Operators of machinery for the manufacture of wood, wicker, rattan and similar products

8143 Operators of machinery in the manufacture of cellulose, paper and similar products

8144 Operators of machinery for printing and bookbinding

8145 Operators of machinery for the manufacture of paper and cardboard-based products

815 Operators of machinery and equipment in the manufacture of textile, leather and hide products

8151 Operators of machinery and equipment for spinning and winding natural and synthetic textile fibres

8152 Operators of machinery for producing knitted fabrics, cloth and carpets

8153 Operators of sewing, embroidery and cutting machines for the manufacture of textile products and garments

8154 Operators of machines in the treatment of leather and hide for the manufacture of footwear and other leather or hide products

8155 Operators of washing, bleaching, dyeing, printing, raising, ironing and finishing machines for textile products

816 Operators of machinery in the manufacture of food, beverages and tobacco

8161 Operators of machinery in the manufacture of food, oils, fats, salt and spices

8162 Operators of machinery in the manufacture of tobacco

8163 Operators of machinery in the manufacture of alcoholic and non-alcoholic beverages

817 Operators of machinery in the manufacture of cement, ceramic, glass and similar products

8171 Operators of machinery in the manufacture of cement, lime, plaster and cement products

8172 Operators of machinery in the manufacture of ceramic, mosaic, tile and similar products

8173 Operators of machinery in the manufacture of glass and glass products and similar

818 Operators of machinery for power generation

8181 Operators of machinery and facilities for power generation

819 Other industrial plant and fixed-machinery operators, not elsewhere classified

8199 Other industrial plant and fixed-machinery operators, not elsewhere classified

82 Assemblers and fitters of tools, machinery, metal and electronic products

820 Supervisors in assembly and fitting processes for machinery, tools and metal, electrical and electronic products

8201 Supervisors in assembly and fitting processes for machinery, tools and metal, electrical and electronic products

821 Assemblers and fitters of tools, machinery, metal and electronic products

8211 Assemblers and fitters of tools, machinery, equipment and metal products

8212 Assemblers and fitters of electrical and electronic components

- 83 Transport and mobile-machinery drivers
- 830 Supervisors of transport and mobile-machinery drivers
- 8301 Supervisors of transport and mobile-machinery drivers
- 831 Air-transport drivers
- 8311 Aircraft pilots
- 832 Maritime-transport drivers
- 8321 Captains and maritime-transport drivers
- 8322 Deck officers, seamen and pilots
- 8323 Marine-engineering officers in maritime transport
- 8324 Operators of small vessels (launches, boats, trajineras, etc.)
- 833 Rail-transport drivers
- 8331 Rail-transport drivers (trains, underground and light rail)
- 834 Motor-vehicle drivers
- 8341 Drivers of lorries, vans and freight vehicles
- 8342 Drivers of buses, lorries, vans, taxis and passenger cars
- 8343 Private-household drivers
- 8344 Motorcycle drivers
- 8349 Other motor-vehicle drivers not elsewhere classified
- 835 Mobile-machinery drivers
- 8351 Mobile-machinery drivers for construction and mining
- 8352 Mobile-machinery drivers for moving goods in factories, ports, shops, etc.
- 89 Other industrial-machinery operators, assemblers and transport drivers, not elsewhere classified
- 899 Other industrial-machinery operators, assemblers and transport drivers, not elsewhere classified
- 8999 Other industrial-machinery operators, assemblers and transport drivers, not elsewhere classified

9 Elementary and support workers

- 91 Support workers in agricultural, forestry, fishing and hunting activities
- 911 Support workers in agricultural activities
- 9111 Support workers in agricultural activities
- 9112 Support workers in livestock activities
- 9113 Support workers carrying out both agricultural and livestock activities
- 912 Support workers in forestry, fishing and hunting activities
- 9121 Support workers in silviculture and forestry
- 9122 Support workers in aquaculture and fishing activities
- 9123 Support workers in hunting and capture activities
- 9124 Firewood collectors and water carriers
- 92 Support workers in mining, construction and industry
- 921 Support workers in mining and extraction
- 9211 Support workers in mining
- 9212 Support workers in oil, gas and water extraction
- 9213 Assistants to blasters and divers in well drilling and construction
- 922 Support workers in construction and plumbing
- 9221 Support workers in construction
- 9222 Support workers in plumbing and pipe installation
- 923 Support workers in industry
- 9231 Support workers in the manufacture, repair and mechanical maintenance of equipment, machinery and metal and precision products
- 9232 Support workers in the electrical, electronics and communications industries
- 9233 Support workers in the chemical, petrochemical, water-treatment and plastics industries
- 9234 Support workers in the wood, paper and cardboard industries
- 9235 Support workers in the textile and footwear industries
- 9236 Support workers in the food, beverage and tobacco industries
- 9237 Support workers in the ceramic, glass and related industries
- 9239 Support workers in industry, not elsewhere classified
- 93 Assistants to transport drivers, human- and animal-drawn transport drivers, and loaders
- 931 Assistants to transport drivers

9311 Assistants to motor-vehicle and mobile-machinery drivers
9312 Assistants to rail-transport drivers
932 Bicycle and animal-drawn transport drivers
9321 Bicycle-transport drivers
9322 Animal-drawn-transport drivers
933 Loaders
9331 Loaders
9332 Tipped-income loaders (working for tips)

94 Food-preparation assistants
941 Food-preparation assistants
9411 Food-preparation assistants

95 Street vendors
951 Street vendors (excluding food vendors)
9511 Street vendors of newspapers and lottery tickets
9512 Street vendors of miscellaneous goods (excluding food vendors)
952 Food street vendors
9521 Food preparers and street vendors
959 Other street vendors not elsewhere classified
9599 Other street vendors not elsewhere classified

96 Domestic workers, cleaners, ironers and other cleaning workers
960 Supervisors in cleaning, housekeepers, butlers and car-park attendants
9601 Supervisors in cleaning, housekeepers, butlers and car-park attendants
961 Domestic workers
9611 Domestic workers
962 Cleaning workers, room attendants, hall porters and shoe cleaners
9621 Street sweepers and cleaning workers (except in hotels and restaurants)
9622 Room attendants and chambermaids
9623 Hotel and restaurant porters
9624 Shoe cleaners
963 Vehicle washers and caretakers
9631 Vehicle washers in establishments
9632 Vehicle washers in public streets
9633 Car-park attendants and car parkers in parking facilities
9634 Car watchers in public streets
964 Laundry workers and ironers
9641 Laundry workers in establishments
9642 Ironers and dry-cleaning workers in establishments
9643 Domestic laundry workers and ironers
965 Gardener's assistants
9651 Gardener's assistants
966 Waste, recyclable-material and other materials collectors
9661 Rubbish and recyclable-material collectors
9662 Waste sorters
9663 Hazardous-waste collectors
9664 Collectors of other materials

97 Parcel workers, event-support workers, messengers and goods delivery workers
971 Parcel, packing and event-support workers
9711 Parcel workers, porters and hotel bellboys
9712 Packers of objects and goods
9713 Support workers for shows, sports events and amusement parks
972 Messaging and goods delivery workers (on foot or by bicycle)
9721 Postmen/postwomen (on foot or by bicycle)
9722 Messengers (on foot or by bicycle) and errand runners
9723 Goods delivery workers (on foot or by bicycle)
973 Meter readers, money collectors and lift operators
9731 Meter readers

9732 Money collectors
9733 Lift and elevator operators

98 Other elementary and support workers, not elsewhere classified
989 Other elementary and support workers, not elsewhere classified
9899 Other elementary and support workers, not elsewhere classified

99 Unspecified occupations
999 Unspecified occupations
9999 Unspecified occupations