

# TECHNICAL APPENDIX

## **Inequality and structural transformation in the changing nature of work**

The case of Indonesia

WIDER Working Paper 2021/81

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May 2021

Table 1: Detailed Indonesia-specific mapping in 2001 data

<b>SAKERNAS 2001</b>		<b>ISCO-88</b>	
1	'Army members'	.	
2	'Navy members'	.	
3	'Air force members'	.	
4	'Police members'	51	Personal and protective services workers
9	'Other elements of defense and other security'	51	Personal and protective services workers
11	'Chemistry researchers'	21	Physical, mathematical and engineering science professionals
21	'Architects and urban planners'	21	Physical, mathematical and engineering science professionals
22	'Civil engineer'	21	Physical, mathematical and engineering science professionals
23	'Electrical engineers'	21	Physical, mathematical and engineering science professionals
24	'Mechanical engineers'	21	Physical, mathematical and engineering science professionals
28	'Industrial engineers'	21	Physical, mathematical and engineering science professionals
29	'Other engineers not elsewhere classified'	21	Physical, mathematical and engineering science professionals
31	'Land survey and topographic technicians'	31	Physical and engineering science associate professionals
32	'Technical drawers'	31	Physical and engineering science associate professionals
33	'Civil engineering technicians'	31	Physical and engineering science associate professionals
34	'Electrical engineering technicians'	31	Physical and engineering science associate professionals
35	'Mechanical engineering technicians'	31	Physical and engineering science associate professionals
38	'Mining technicians'	31	Physical and engineering science associate professionals
39	'Other technicians not elsewhere classified'	31	Physical and engineering science associate professionals
41	'Pilots, navigators, and aircraft mechanics'	31	Physical and engineering science associate professionals
42	'Ship officers, ship and port guides'	31	Physical and engineering science associate professionals
51	'Biologists and zoologists'	22	Life science and health professionals

<b>SAKERNAS 2001</b>		<b>ISCO-88</b>	
52	'Bacteriologists, pharmacologists, livestock and other assoc	32	Life science and health associate professionals
54	'Agronomists and other associate researchers'	22	Life science and health professionals
55	'Life science technicians'	32	Life science and health associate professionals
61	'Medical doctor'	22	Life science and health professionals
62	'Medical doctor assistants'	32	Life science and health associate professionals
63	'Dentist'	22	Life science and health professionals
64	'Dental assistant'	32	Life science and health associate professionals
66	'Veterinarian assistants'	32	Life science and health associate professionals
67	'Pharmacist'	22	Life science and health professionals
68	'Pharmacist assistants '	32	Life science and health associate professionals
69	'Dieticians and nutritionists'	22	Life science and health professionals
71	'Nurse Specialists'	22	Life science and health professionals
72	'Nurses'	32	Life science and health associate professionals
73	'Midwife specialists'	22	Life science and health professionals
74	'Midwives'	32	Life science and health associate professionals
76	'Physiotherapists and rehabilitation specialists for the dis	22	Life science and health professionals
79	'Other health associated professional not elsewhere classifi	32	Life science and health associate professionals
83	'System analysis experts'	21	Physical, mathematical and engineering science professionals
84	'Technician in the field of statistics and mathematics'	31	Physical and engineering science associate professionals
90	'Economist'	24	Other professionals
110	'Accountant'	24	Other professionals
121	'Attorneys'	24	Other professionals
122	'Judge'	24	Other professionals
123	'Attorney'	24	Other professionals
129	'Notary and legal expert'	24	Other professionals

<b>SAKERNAS 2001</b>		<b>ISCO-88</b>	
131	'Lecturer at university, college, other higher education ins	23	Teaching professionals
132	'Senior secondary school teaching professionals'	23	Teaching professionals
133	'Junior secondary school teaching professionals'	23	Teaching professionals
134	'Primary school teaching professionals'	23	Teaching professionals
135	'Preschool teaching professionals'	23	Teaching professionals
136	'Non-formal education teaching professionals'	23	Teaching professionals
137	'Special education teaching professionals'	23	Teaching professionals
139	'Other teaching professionals not elsewhere classified'	23	Teaching professionals
141	'Religious leader or ulama, the commentators, preachers and	24	Other professionals
142	'Christian-Protestant pastor and other associate professiona	34	Other associate professionals
143	'Christian-Catholic priest and other associate professionals	34	Other associate professionals
144	'Monks and other associate professionals in Buddhism religio	34	Other associate professionals
145	'Pastor or 'Pedanda' and other associate professionals in Hi	34	Other associate professionals
149	'Other religious professionals not elsewhere classified'	34	Other associate professionals
152	'Journalists, reporters, information expert, news commentato	24	Other professionals
153	'Editors, writers and other not elsewhere classified'	24	Other professionals
161	'Sculptors, painters and associate artists'	34	Other associate professionals
162	'Artists and illustration designers'	24	Other professionals
163	'Photographers and cameraman'	31	Physical and engineering science associate professionals
169	'Others not elsewhere classified'	34	Other associate professionals
171	'Composers, modifiers, musicians and singers'	34	Other associate professionals
172	'Choreographer and dancers'	24	Other professionals

<b>SAKERNAS 2001</b>		<b>ISCO-88</b>	
173	'Directors and artists'	24	Other professionals
174	'Producers and performing art technicians'	34	Other associate professionals
175	'Comedians, jugglers and circus performers'	24	Other professionals
176	'Puppeteers, gamelan players and other associate artists'	34	Other associate professionals
177	'Protocols, broadcasters and associate professionals'	34	Other associate professionals
179	'Other associate performing artists not else classified'	34	Other associate professionals
180	'Athletes, coaches, sport administrators and other associate'	34	Other associate professionals
193	'Social worker'	34	Other associate professionals
194	'Human resource management expert'	24	Other professionals
195	'Linguists, translators, and language interpreter'	24	Other professionals
199	'Other professionals and technicians not elsewhere classifie'	34	Other associate professionals
201	'Legislators'	11	Legislators and senior officials
202	'Senior government officials'	34	Other associate professionals
211	'General Manager'	13	General managers
212	'Production manager, except for agricultural production'	12	Corporate managers
213	'Marketing Manager'	12	Corporate managers
214	'Financial Manager'	12	Corporate managers
215	'Administration Manager'	12	Corporate managers
216	'Personnel Manager'	12	Corporate managers
217	'Manager of research and development'	12	Corporate managers
219	'Other manager not else classified'	12	Corporate managers
300	'Administrative supervisor'	12	Corporate managers
310	'Government officials'	34	Other associate professionals
321	'Stenographers and typists'	41	Office clerks
322	'Punchers'	41	Office clerks
323	'Telex clerks'	41	Office clerks
329	'Other stenographer, typist, and telex clerk not elsewhere c'	41	Office clerks

<b>SAKERNAS 2001</b>		<b>ISCO-88</b>	
331	'Bookkeepers'	34	Other associate professionals
332	'Cashiers'	42	Customer services clerks
333	'Treasurers'	41	Office clerks
339	Other related bookkeepers, cashier, treasurers not elsewhere	41	Office clerks
341	'Bookkeeping machine operator and calculating machines'	41	Office clerks
342	'Computer operators and data-processing machines'	31	Physical and engineering science associate professionals
349	'Calculating machine operators and data processors not elsew	31	Physical and engineering science associate professionals
351	'Head of the railway stations'	12	Corporate managers
352	'Head of ports'	12	Corporate managers
354	'Head of postal and giro office'	12	Corporate managers
359	'Supervisors in the field of transportation and communicatio	12	Corporate managers
360	'Land transportation trip workers'	51	Personal and protective services workers
371	'Letter deliverers'	41	Office clerks
372	'Other cargo distribution workers'	41	Office clerks
380	'Radio, telephone, and telegraph, or other communication dev	42	Customer services clerks
391	'Warehousing or logistical clerks'	41	Office clerks
392	'Material and production planning clerks'	41	Office clerks
393	'Office clerks, reports and correspondence'	41	Office clerks
394	'Receptionist and travel agency clerks'	41	Customer services clerks
395	'Library and chancery clerks'	41	Office clerks
399	'Other clerks not elsewhere classified'	41	Office clerks
400	'Large business and retail trade managers'	13	General managers
410	'Employers large and retail trade'	13	General managers
421	'Sales supervisor'	12	Corporate managers
422	'Buyers'	34	Other associate professionals
431	'Technical equipment salespersons and technical service advi	34	Other associate professionals
432	'Order seekers, mobile trading workers, and industrial produ	34	Other associate professionals
441	'Insurance salesman'	34	Other associate professionals

<b>SAKERNAS 2001</b>		<b>ISCO-88</b>	
442	'Salesperson for building and land rental'	52	Models, salespersons and demonstrators
443	'Salesperson for bonds'	52	Models, salespersons and demonstrators
444	'Salesperson for corporate service'	52	Models, salespersons and demonstrators
445	'Auctioneer and appraisers'	52	Models, salespersons and demonstrators
451	'Salesperson, shopkeepers, commercial goods demonstrators'	52	Models, salespersons and demonstrators
452	'Street vendors, mobile traders and salesmen'	91	Sales and services elementary occupations
490	'Sales workers not elsewhere classified'	52	Models, salespersons and demonstrators
492	492	-	
493	493	-	
494	494	-	
498	498	-	
500	'Business manager of food supply or catering and accommodati	12	Corporate managers
510	'Business owners providing food or caterers and accommodatio	13	General managers
520	'Domesticity service and related workers'	51	Personal and protective services workers
531	'Cooks'	51	Personal and protective services workers
532	'Waiters, waitresses, and bartenders'	51	Personal and protective services workers
540	'Maids and domestic workers and related workers that not els	91	Sales and services elementary occupations
551	'Keepers and janitor'	91	Sales and services elementary occupations
552	'Cleaners and related workers and not elsewhere classified'	91	Sales and services elementary occupations
560	'Laundry persons and related workers'	82	Machine operators and assemblers
570	'Beauticians, hair dressers, barbers, and related workers'	51	Personal and protective services workers
581	'Fire-fighters'	51	Personal and protective services workers
582	'Special police officers and securities'	34	Other associate professionals
589	'Other protective and security services workers'	51	Personal and protective services workers
591	'Guide'	51	Personal and protective services workers
592	'Undertaker and embalming bodies'	51	Personal and protective services workers
593	'Health service personnel'	51	Personal and protective services workers
599	'Other service for business'	91	Personal and protective services workers

SAKERNAS 2001		ISCO-88	
600	'Manager and supervisor of agricultural and animal husbandry	13	General managers
611	'Mixed-plantation farmer'	61	Subsistence agricultural and fishery workers **
612	'Specific plant farmers'	61	Market-oriented skilled agricultural and fishery workers **
613	'Breeders'	61	Market-oriented skilled agricultural and fishery workers **
621	'General agricultural and animal husbandry workers'	92	Agricultural, fishery and related labourers **
622	'Seasonal-crop agricultural workers i.e. rice, cotton, sugar	92	Agricultural, fishery and related labourers **
623	'Annual-crop agricultural worker i.e. rubber, tea, palm oil,	92	Agricultural, fishery and related labourers **
624	'Livestock workers'	92	Agricultural, fishery and related labourers **
625	'Dairy cattle workers'	92	Agricultural, fishery and related labourers **
626	'Poultry workers'	92	Agricultural, fishery and related labourers **
627	'Nursery, plant and garden workers'	92	Agricultural, fishery and related labourers **
628	'Agricultural and animal husbandry machine operators'	92	Agricultural, fishery and related labourers **
629	'Agricultural and animal husbandry worker not elsewhere clas	92	Agricultural, fishery and related labourers **
630	'Manager, businessmen and supervisors concession forestry bu	13	General managers
631	'Loggers and forest wood cutters'	92	Market-oriented skilled agricultural and fishery workers **
632	'Forestry business workers'	91	Sales and services elementary occupations **
633	'Forest products seekers, except wood'	91	Sales and services elementary occupations **
640	'Manager, employers, and supervisors of fishery and hunting	13	General managers
641	'Inland waters fish cultivation workers'	61	Market-oriented skilled agricultural and fishery workers
642	'Inland waters fish catching workers'	61	Market-oriented skilled agricultural and fishery workers
643	'Marine fish cultivation workers'	61	Market-oriented skilled agricultural and fishery workers
644	'Marine fish catching workers, except the ship captain and c	61	Market-oriented skilled agricultural and fishery workers

SAKERNAS 2001		ISCO-88	
645	'Sea-product seekers, except fish'	61	Market-oriented skilled agricultural and fishery workers
646	'Hunters'	61	Market-oriented skilled agricultural and fishery workers
649	'Fishery and hunting worker related workers, not elsewhere c	61	Market-oriented skilled agricultural and fishery workers
700	'Production supervisors and foremen'	.	
711	'Mining, panning, and digging workers'	71	Extraction and building trades workers
712	'Preparation and processing of stone quarry workers'	71	Extraction and building trades workers
713	'Oil well, natural gas and other mineral drilling workers an	71	Extraction and building trades workers
721	'Main metal melting and refining operators'	82	Machine operators and assemblers
722	'Metal grinding operators or metal grinding machine operator	82	Machine operators and assemblers
723	'Main metal re-melting re-furnace operators'	82	Machine operators and assemblers
724	'Metal melting operators'	82	Machine operators and assemblers
725	'Metal molding makers'	72	Metal, machinery and related trades workers
726	'Thermostat and metal hardening operators'	82	Machine operators and assemblers
727	'Wire and pipe makers'	72	Metal, machinery and related trades workers
728	'Metal coating workers'	72	Metal, machinery and related trades workers
729	'Other metal processing workers not elsewhere classified'	72	Metal, machinery and related trades workers
731	'Wood processing- and preservation-plant operators'	81	Stationary-plant and related operators
732	'Chainsaw and plywood pressing machinery operators and other	81	Stationary-plant and related operators
733	'Paper-pulp plant operators'	81	Stationary-plant and related operators
734	'Papermaking-plant operators'	81	Stationary-plant and related operators
739	'Other wood processing-, papermaking-, bamboo processing, ra	81	Stationary-plant and related operators
741	'Crushing-, grinding-, and chemical-mixing-machinery operato	81	Stationary-plant and related operators

<b>SAKERNAS 2001</b>		<b>ISCO-88</b>	
742	'Chemical-heat-treating-plant operators'	81	Stationary-plant and related operators
743	'Chemical-filtering- and separating-equipment operators'	81	Stationary-plant and related operators
744	'Chemical-still and reactor operators'	81	Stationary-plant and related operators
745	'Petroleum-refining-plant operators'	81	Stationary-plant and related operators
749	'Other chemical-processing-plant operators not elsewhere cla	81	Stationary-plant and related operators
751	'Fiber-preparing machine operators and fiber-preparing worke	82	Machine operators and assemblers
752	'Spinning and winding machine operators and workers'	82	Machine operators and assemblers
753	'Machine setters, knitting workers and pattern-makers'	82	Machine operators and assemblers
754	'Weaving machine operators and worker not elsewhere classifi	82	Machine operators and assemblers
755	'Knitting machine operators and knitting workers'	82	Machine operators and assemblers
756	'Bleaching- and Dyeing- workers and related workers'	82	Machine operators and assemblers
757	'Batik makers'	82	Machine operators and assemblers
759	'Other related spinning-, weaving-, knitting-, dyeing-worker	82	Machine operators and assemblers
761	'Tannery workers'	74	Other craft and related trades workers
762	'Leather processing workers'	74	Other craft and related trades workers
771	'Grain milling workers and related workers'	82	Machine operators and assemblers
772	'Sugar processing and refining workers'	82	Machine operators and assemblers
773	'Butcher and meat processing workers'	74	Other craft and related trades workers
774	'Food preservation workers'	82	Machine operators and assemblers
775	'Milk and dairy processing workers'	74	Other craft and related trades workers
776	'Bread, cake and candy makers'	74	Other craft and related trades workers
777	'Tea-, coffee-, and cocoa-processing workers'	74	Other craft and related trades workers
778	'Bootleggers and lightweight'	82	Machine operators and assemblers
779	'Other food and beverage processing workers not elsewhere cl	74	Other craft and related trades workers
781	'Tobacco leaf processing workers'	82	Machine operators and assemblers
783	'Cigarette makers'	82	Machine operators and assemblers

<b>SAKERNAS 2001</b>		<b>ISCO-88</b>	
789	'Tobacco processing workers not elsewhere classified'	82	Machine operators and assemblers
791	'Seamstress'	74	Other craft and related trades workers
792	'Leather and fur clothing makers'	74	Other craft and related trades workers
793	'Hatter'	74	Other craft and related trades workers
794	'Pattern maker and clothing cutter'	74	Other craft and related trades workers
795	'Tailor, embroidery, embroidery, and hem workers'	74	Other craft and related trades workers
796	'Car or motorbike seat makers and related workers'	74	Other craft and related trades workers
799	'Other related sewing business workers not elsewhere classif	74	Other craft and related trades workers
801	'Shoe makers and shoe repairing workers'	74	Other craft and related trades workers
802	'Shoe-part makers and related workers'	74	Other craft and related trades workers
803	'Leather goods makers'	74	Other craft and related trades workers
811	'Furniture makers'	74	Other craft and related trades workers
812	'Wood processing machine operators'	74	Other craft and related trades workers
819	'Other related wood-furniture makers not elsewhere classifie	74	Other craft and related trades workers
820	'Stone processing workers'	71	Extraction and building trades workers
831	'Blacksmiths, forging-press workers and metal thread pressin	72	Metal, machinery and related trades workers
832	'Toolmakers and related workers'	72	Metal, machinery and related trades workers
833	'Machine-tool setters'	72	Metal, machinery and related trades workers
834	'Machine-tool operators'	72	Metal, machinery and related trades workers
835	'Metal wheel-grinders, polishers and tool sharpeners'	72	Metal, machinery and related trades workers
839	'Blacksmiths, tool-makers, and machine-tool operators not el	72	Metal, machinery and related trades workers
841	'Machinery installers and assemblers '	72	Metal, machinery and related trades workers
842	'Watch-, bell-, and precision-instruments workers'	73	Precision, handicraft, printing and related
843	'Motor vehicle mechanics'	72	Metal, machinery and related trades workers

<b>SAKERNAS 2001</b>		<b>ISCO-88</b>	
844	'Aircraft engine mechanics'	72	Metal, machinery and related trades workers
849	'Machine mechanics, machine installers and assemblers and pr	82	Machine operators and assemblers
851	'Electrical machinery assemblers'	72	Metal, machinery and related trades workers
852	'Electronic equipment assemblers'	82	Machine operators and assemblers
853	'Electrical and electronic equipment installers'	71	Extraction and building trades workers
854	'Electronic mechanics'	72	Metal, machinery and related trades workers
855	'Electrical installer'	71	Extraction and building trades workers
856	'Telephone and telegraph installers'	71	Extraction and building trades workers
857	'Electric line installers and cable jointers'	72	Metal, machinery and related trades workers
859	'Electrical equipment- setters, electrical and electronic wo	71	Extraction and building trades workers
861	'Transmitter operators'	31	Physical and engineering science associate professionals
862	'Acoustic equipment film projector operators'	31	Physical and engineering science associate professionals
871	'Pipe fitters'	71	Extraction and building trades workers
872	'Welder'	72	Metal, machinery and related trades workers
873	'Sheet-metal workers'	72	Metal, machinery and related trades workers
880	'Jewelry and precious-metal workers'	73	Precision, handicraft, printing and related trades workers
891	'Glass-making machine operators and glass makers and related	73	Precision, handicraft, printing and related trades workers
892	'Ceramics and clays machine operators and workers'	73	Precision, handicraft, printing and related trades workers
893	'Glass, ceramics, clay and limestone arsonists'	73	Precision, handicraft, printing and related trades workers
894	'Glass engravers and etchers'	73	Precision, handicraft, printing and related trades workers
895	'Glass and ceramic decorative painters'	73	Precision, handicraft, printing and related trades workers
899	'Glass and ceramics workers not elsewhere classified'	73	Precision, handicraft, printing and related trades workers

<b>SAKERNAS 2001</b>		<b>ISCO-88</b>	
901	'Rubber- and plastic-product machine operators, except for m	82	Machine operators and assemblers
902	'Tire production and retread tires workers'	82	Machine operators and assemblers
910	910	.	
921	'Compositors and typesetters'	73	Precision, handicraft, printing and related trades workers
922	'Printing machine operators'	82	Machine operators and assemblers
923	'Stereotypers and electrotypers'	73	Precision, handicraft, printing and related trades workers
924	'Printing engravers and machine operators, except with photo	82	Machine operators and assemblers
925	'Photographic engravers'	82	Machine operators and assemblers
926	'Bookbinders and related workers'	73	Precision, handicraft, printing and related trades workers
927	'Old fashion photographic printing workers'	82	Machine operators and assemblers
929	'Other related printing and related workers not elsewhere cl	82	Machine operators and assemblers
931	'Building painters'	71	Extraction and building trades workers
932	'Vehicle painters'	71	Extraction and building trades workers
939	'Painters not elsewhere classified'	71	Extraction and building trades workers
941	'Musical instrument workers and tuners'	73	Precision, handicraft, printing and related trades workers
942	'Wickerwork and brush workers'	74	Other craft and related trades workers
943	'Non-metallic mineral and related workers'	74	Other craft and related trades workers
944	'Wood-curving-processing and related workers'	74	Other craft and related trades workers
945	'Bamboo-processing workers'	74	Other craft and related trades workers
946	'Rattan-processing workers'	74	Other craft and related trades workers
949	'Other goods processing workers not elsewhere classified'	74	Other craft and related trades workers
951	'Mason and tile pairs'	71	Extraction and building trades workers
952	'Cast concrete and terrazzo workers'	71	Extraction and building trades workers
953	'Roof tiles installers'	71	Extraction and building trades workers
954	'Carpenters'	71	Extraction and building trades workers
955	'Plasterers'	71	Extraction and building trades workers
956	'Isolation or insulation workers'	71	Extraction and building trades workers

SAKERNAS 2001		ISCO-88	
957	'Glazier'	71	Extraction and building trades workers
959	'Other construction workers not elsewhere classified'	71	Extraction and building trades workers
961	'Power-production operators'	81	Stationary-plant and related operators
969	'Stationary machine and equipment operator not elsewhere cla	81	Stationary-plant and related operators
971	'Port blue-collar workers and porters'	91	Sales and services elementary occupations
972	'Lifting truck cable assemblers and jointers'	93	Labourers in mining, construction, manufacturing and transport
973	'Crane operators and lifters'	83	Drivers and mobile-plant operators
974	'Earth-moving operators'	83	Drivers and mobile-plant operators
979	'Other forklift and lifter operators not elsewhere classifie	83	Drivers and mobile-plant operators
981	'Boat sailors'	83	Drivers and mobile-plant operators
982	'Ship's engine room seamen'	83	Drivers and mobile-plant operators
983	'Machinist and train stokers'	83	Drivers and mobile-plant operators
984	'Brake-, train signal-, and train slender operators'	83	Drivers and mobile-plant operators
985	'Motor vehicle drivers'	83	Drivers and mobile-plant operators
986	'Animal-drawn vehicle drivers'	93	Labourers in mining, construction, manufacturing and transport
987	'Rickshaws and pedal vehicle drivers'	93	Labourers in mining, construction, manufacturing and transport
989	'Other transport workers not elsewhere classified'	93	Labourers in mining, construction, manufacturing and transport
999	'Blue-collar workers not elsewhere classified'	93	Labourers in mining, construction, manufacturing and transport

Note: army member recoded to missing because armed forces have no RTI/Offshoring score. \*\* Recode because in Indonesia those occupations are included in elementary worker.

Source: authors' own compilation based on mapping ISCO-68 to ISCO-88 by Ganzeboom, H.B.G., and D.J. Treiman (2013). 'International Stratification and Mobility File: Conversion Tools'. Amsterdam: Department of Social Research Methodology. Available at: <http://www.harryganzeboom.nl/ISMF/index.htm>. SAKERNAS: National Labour Force Survey (*Survey Angkatan Kerja Nasional*).

Table 2: Detailed Indonesia-specific mapping in 2005 data

SAKERNAS 2005		ISCO-88	
1	'Army members'	.	
2	'Navy members'	.	
3	'Air force members'	.	
4	'Police members'	51	Personal and protective services workers
9	'Other elements of defense and other security'	51	Personal and protective services workers
11	'Chemistry researchers'	21	Physical, mathematical and engineering science professionals
12	'Physic researchers'	21	Physical, mathematical and engineering science professionals
13	'Other natural science researchers'	21	Physical, mathematical and engineering science professionals
14	'Natural science technicians'	32	Life science and health associate professionals
21	'Architects and urban planners'	21	Physical, mathematical and engineering science professionals
22	'Civil engineer'	21	Physical, mathematical and engineering science professionals
23	'Electrical engineers'	21	Physical, mathematical and engineering science professionals
24	'Mechanical engineers'	21	Physical, mathematical and engineering science professionals
25	'Chemical engineers'	21	Physical, mathematical and engineering science professionals
27	'Mining engineers'	21	Physical, mathematical and engineering science professionals
28	Industrial engineers	21	Physical, mathematical and engineering science professionals
29	'Other engineers not elsewhere classified'	21	Physical, mathematical and engineering science professionals
31	'Land survey and topographic technicians'	31	Physical and engineering science associate professionals
32	'Technical drawers'	31	Physical and engineering science associate professionals
33	'Civil engineering technicians'	31	Physical and engineering science associate professionals
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36	'Chemical engineering technicians'	31	Physical and engineering science associate professionals
38	'Mining technicians'	31	Physical and engineering science associate professionals
39	'Other technicians not elsewhere classified'	31	Physical and engineering science associate professionals
42	'Ship officers, ship and port guides'	31	Physical and engineering science associate professionals
43	'Ship engineers'	21	Physical, mathematical and engineering science professionals
51	'Biologists and zoologists'	22	Life science and health professionals
52	'Bacteriologists, pharmacologists, livestock and other assoc	32	Life science and health associate professionals
53	'Farm Researchers'	22	Life science and health associate professionals
54	'Agronomists and other associate researchers'	22	Life science and health professionals
55	'Life science technicians'	32	Life science and health associate professionals
61	'Medical doctor'	22	Life science and health professionals
62	'Medical doctor assistants'	32	Life science and health associate professionals
63	'Dentist'	22	Life science and health professionals
64	'Dental assistant'	32	Life science and health associate professionals
65	'Veterinarians'	22	Life science and health professionals
67	'Pharmacist'	22	Life science and health professionals
68	'Pharmacist assistants '	32	Life science and health associate professionals
69	'Dieticians and nutritionists'	22	Life science and health professionals
71	'Nurse Specialists'	22	Life science and health professionals
72	'Nurses'	32	Life science and health associate professionals
73	'Midwife specialists'	22	Life science and health professionals
74	'Midwives'	32	Life science and health associate professionals
76	'Physiotherapists and rehabilitation specialists for the dis	22	Life science and health professionals
77	'Medical X-ray technicians'	32	Life science and health associate professionals

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79	'Other health associated professional not elsewhere classifi	32	Life science and health associate professionals
81	'Statisticians'	21	Physical, mathematical and engineering science professionals
83	'System analysis experts'	21	Physical, mathematical and engineering science professionals
84	'Technician in the field of statistics and mathematics'	31	Physical and engineering science associate professionals
110	'Accountant'	24	Other professionals
121	'Attorneys'	24	Other professionals
122	'Judge'	24	Other professionals
123	'Attorney'	24	Other professionals
129	'Notary and legal expert'	24	Other professionals
131	'Lecturer at university, college, other higher education ins	23	Teaching professionals
132	'Senior secondary school teaching professionals'	23	Teaching professionals
133	'Junior secondary school teaching professionals'	23	Teaching professionals
134	'Primary school teaching professionals'	23	Teaching professionals
135	'Preschool teaching professionals'	23	Teaching professionals
136	'Non-formal education teaching professionals'	23	Teaching professionals
137	'Special education teaching professionals'	23	Teaching professionals
139	'Other teaching professionals not elsewhere classified'	23	Teaching professionals
141	'Religious leader or ulama, the commentators, preachers and	24	Other professionals
142	'Christian-Protestant pastor and other associate professiona	34	Other associate professionals
143	'Christian-Catholic priest and other associate professionals	34	Other associate professionals
145	'Pastor or 'Pedanda' and other associate professionals in Hi	34	Other associate professionals
149	'Other religious professionals not elsewhere classified'	34	Other associate professionals
152	'Journalists, reporters, information expert, news commentato	24	Other professionals

<b>SAKERNAS 2005</b>		<b>ISCO-88</b>	
153	'Editors, writers and other not elsewhere classified'	24	Other professionals
161	'Sculptors, painters and associate artists'	34	Other associate professionals
162	'Artists and illustration designers'	24	Other professionals
163	'Photographers and cameraman'	31	Physical and engineering science associate professionals
169	'Others not elsewhere classified'	34	Other associate professionals
171	'Composers, modifiers, musicians and singers'	34	Other associate professionals
172	'Choreographer and dancers'	24	Other professionals
173	'Directors and artists'	24	Other professionals
174	'Producers and performing art technicians'	34	Other associate professionals
176	'Puppeteers, gamelan players and other associate artists'	34	Other associate professionals
177	'Protocols, broadcasters and associate professionals'	34	Other associate professionals
179	'Other associate performing artists not else classified'	34	Other associate professionals
180	'Athletes, coaches, sport administrators and other associate'	34	Other associate professionals
191	'Librarians, archivists and curator expert'	24	Other professionals
192	'Social science expert'	24	Other professionals
193	'Social worker'	34	Other associate professionals
194	'Human resource management expert'	24	Other professionals
195	'Linguists, translators, and language interpreter'	24	Other professionals
199	'Other professionals and technicians not elsewhere classifie'	34	Other associate professionals
201	'Legislators'	11	Legislators and senior officials
202	'Senior government officials'	34	Other associate professionals
211	'General Manager'	13	General managers
212	'Production manager, except for agricultural production'	12	Corporate managers
213	'Marketing Manager'	12	Corporate managers
214	'Financial Manager'	12	Corporate managers
215	'Administration Manager'	12	Corporate managers
216	'Personnel Manager'	12	Corporate managers

<b>SAKERNAS 2005</b>		<b>ISCO-88</b>	
217	'Manager of research and development'	12	Corporate managers
219	'Other manager not else classified	12	Corporate managers
300	'Administrative supervisor'	12	Corporate managers
310	'Government officials'	34	Other associate professionals
321	'Stenographers and typists'	41	Office clerks
322	'Punchers'	41	Office clerks
323	'Telex clerks'	41	Office clerks
329	'Other stenographer, typist, and telex clerk not elsewhere c	41	Office clerks
331	'Bookkeepers'	34	Other associate professionals
332	'Cashiers'	42	Customer services clerks
333	'Treasurers'	41	Office clerks
339	Other related bookkeepers, cashier, treasurers not elsewhere	41	Office clerks
341	'Bookkeeping machine operator and calculating machines'	41	Office clerks
342	'Computer operators and data-processing machines'	31	Physical and engineering science associate professionals
349	'Calculating machine operators and data processors not elsew	31	Physical and engineering science associate professionals
351	'Head of the railway stations'	12	Corporate managers
353	'Head of Airport'	12	Corporate managers
354	'Head of postal and giro office'	12	Corporate managers
359	'Supervisors in the field of transportation and communicatio	12	Corporate managers
360	'Land transportation trip workers'	51	Personal and protective services workers
371	'Letter deliverers'	41	Office clerks
372	'Other cargo distribution workers'	41	Office clerks
380	'Radio, telephone, and telegraph, or other communication dev	42	Customer services clerks
391	'Warehousing or logistical clerks'	41	Office clerks
392	'Material and production planning clerks'	41	Office clerks
393	'Office clerks, reports and correspondence'	41	Office clerks
394	'Receptionist and travel agency clerks'	41	Customer services clerks
395	'Library and chancery clerks'	41	Office clerks
399	'Other clerks not elsewhere classified'	41	Office clerks

SAKERNAS 2005		ISCO-88	
400	'Large business and retail trade managers'	13	General managers
410	'Employers large and retail trade'	13	General managers
421	'Sales supervisor'	12	Corporate managers
422	'Buyers'	34	Other associate professionals
431	'Technical equipment salespersons and technical service advi	34	Other associate professionals
432	'Order seekers, mobile trading workers, and industrial produ	34	Other associate professionals
441	'Insurance salesman'	34	Other associate professionals
442	'Salesperson for building and land rental'	52	Models, salespersons and demonstrators
443	'Salesperson for bonds'	52	Models, salespersons and demonstrators
444	'Salesperson for corporate service'	52	Models, salespersons and demonstrators
445	'Auctioneer and appraisers'	52	Models, salespersons and demonstrators
451	'Salesperson, shopkeepers, commercial goods demonstrators'	52	Models, salespersons and demonstrators
452	'Street vendors, mobile traders and salesmen'	91	Sales and services elementary occupations
490	'Sales workers not elsewhere classified'	52	Models, salespersons and demonstrators
491	491	.	
498	498	.	
500	'Business manager of food supply or catering and accommodati	12	Corporate managers
510	'Business owners providing food or caterers and accommodatio	13	General managers
520	'Domesticity service and related workers'	51	Personal and protective services workers
531	'Cooks'	51	Personal and protective services workers
532	'Waiters, waitresses, and bartenders'	51	Personal and protective services workers
540	'Maids and domestic workers and related workers that not els	91	Sales and services elementary occupations
551	'Keepers and janitor'	91	Sales and services elementary occupations
552	'Cleaners and related workers and not elsewhere classified'	91	Sales and services elementary occupations
560	'Laundry persons and related workers'	82	Machine operators and assemblers
570	'Beauticians, hair dressers, barbers, and related workers'	51	Personal and protective services workers
581	'Fire-fighters'	51	Personal and protective services workers

SAKERNAS 2005		ISCO-88		
582	'Special police officers and securities'	34	Other associate professionals	
589	'Other protective and security services workers'	51	Personal and protective services workers	
591	'Guide'	51	Personal and protective services workers	
592	'Undertaker and embalming bodies'	51	Personal and protective services workers	
593	'Health service personnel'	51	Personal and protective services workers	
599	'Other service for business'	91	Personal and protective services workers	
600	'Manager and supervisor of agricultural and animal husbandry'	13	General managers	
611	'Mixed-plantation farmer'	61	Subsistence agricultural and fishery workers	**
612	'Specific plant farmers'	61	Market-oriented skilled agricultural and fishery workers	**
613	'Breeders'	61	Market-oriented skilled agricultural and fishery workers	**
621	'General agricultural and animal husbandry workers'	92	Agricultural, fishery and related labourers	**
622	'Seasonal-crop agricultural workers i.e. rice, cotton, sugar'	92	Agricultural, fishery and related labourers	**
623	'Annual-crop agricultural worker i.e. rubber, tea, palm oil,	92	Agricultural, fishery and related labourers	**
624	'Livestock workers'	92	Agricultural, fishery and related labourers	**
625	'Dairy cattle workers'	92	Agricultural, fishery and related labourers	**
626	'Poultry workers'	92	Agricultural, fishery and related labourers	**
627	'Nursery, plant and garden workers'	92	Agricultural, fishery and related labourers	**
628	'Agricultural and animal husbandry machine operators'	92	Agricultural, fishery and related labourers	**
629	'Agricultural and animal husbandry worker not elsewhere clas	92	Agricultural, fishery and related labourers	**
630	'Manager, businessmen and supervisors concession forestry bu	13	General managers	
631	'Loggers and forest wood cutters'	92	Market-oriented skilled agricultural and fishery workers	**
632	'Forestry business workers'	91	Agricultural, fishery and related labourers	**
633	'Forest products seekers, except wood'	91	Agricultural, fishery and related labourers	**
640	'Manager, employers, and supervisors of fishery and hunting'	13	General managers	

<b>SAKERNAS 2005</b>		<b>ISCO-88</b>	
641	'Inland waters fish cultivation workers'	61	Market-oriented skilled agricultural and fishery workers
642	'Inland waters fish catching workers'	61	Market-oriented skilled agricultural and fishery workers
643	'Marine fish cultivation workers'	61	Market-oriented skilled agricultural and fishery workers
644	'Marine fish catching workers, except the ship captain and c	61	Market-oriented skilled agricultural and fishery workers
645	'Sea-product seekers, except fish'	61	Market-oriented skilled agricultural and fishery workers
646	'Hunters'	61	Market-oriented skilled agricultural and fishery workers
649	'Fishery and hunting worker related workers, not elsewhere c	61	Market-oriented skilled agricultural and fishery workers
700	'Production supervisors and foremen'	.	
711	'Mining, panning, and digging workers'	71	Extraction and building trades workers
712	'Preparation and processing of stone quarry workers'	71	Extraction and building trades workers
713	'Oil well, natural gas and other mineral drilling workers an	71	Extraction and building trades workers
721	'Main metal melting and refining operators'	82	Machine operators and assemblers
722	'Metal grinding operators or metal grinding machine operator	82	Machine operators and assemblers
723	'Main metal re-melting re-furnace operators'	82	Machine operators and assemblers
724	'Metal melting operators'	82	Machine operators and assemblers
725	'Metal molding makers'	72	Metal, machinery and related trades workers
726	'Thermostat and metal hardening operators'	82	Machine operators and assemblers
727	'Wire and pipe makers'	72	Metal, machinery and related trades workers
728	'Metal coating workers'	72	Metal, machinery and related trades workers
729	'Other metal processing workers not elsewhere classified'	72	Metal, machinery and related trades workers
731	'Wood processing- and preservation-plant operators'	81	Stationary-plant and related operators

<b>SAKERNAS 2005</b>		<b>ISCO-88</b>	
732	'Chainsaw and plywood pressing machinery operators and other	81	Stationary-plant and related operators
733	'Paper-pulp plant operators'	81	Stationary-plant and related operators
734	'Papermaking-plant operators'	81	Stationary-plant and related operators
739	'Other wood processing-, papermaking-, bamboo processing, ra	81	Stationary-plant and related operators
741	'Crushing-, grinding-, and chemical-mixing-machinery operato	81	Stationary-plant and related operators
742	'Chemical-heat-treating-plan operators'	81	Stationary-plant and related operators
743	'Chemical-filtering- and separating-equipment operators'	81	Stationary-plant and related operators
744	'Chemical-still and reactor operators'	81	Stationary-plant and related operators
745	'Petroleum-refining-plant operators'	81	Stationary-plant and related operators
749	'Other chemical-processing-plant operators not elsewhere cla	81	Stationary-plant and related operators
751	'Fiber-preparing machine operators and fiber-preparing worke	82	Machine operators and assemblers
752	'Spinning and winding machine operators and workers'	82	Machine operators and assemblers
753	'Machine setters, knitting workers and pattern-makers'	82	Machine operators and assemblers
754	'Weaving machine operators and worker not elsewhere classifi	82	Machine operators and assemblers
755	'Knitting machine operators and knitting workers'	82	Machine operators and assemblers
756	'Bleaching- and Dyeing- workers and related workers'	82	Machine operators and assemblers
757	'Batik makers'	82	Machine operators and assemblers
759	'Other related spinning-, weaving-, knitting-, dyeing-worker	82	Machine operators and assemblers
761	'Tannery workers'	74	Other craft and related trades workers
762	'Leather processing workers'	74	Other craft and related trades workers
771	'Grain milling workers and related workers'	82	Machine operators and assemblers
772	'Sugar processing and refining workers'	82	Machine operators and assemblers
773	'Butcher and meat processing workers'	74	Other craft and related trades workers
774	'Food preservation workers'	82	Machine operators and assemblers

SAKERNAS 2005		ISCO-88	
775	'Milk and dairy processing workers'	74	Other craft and related trades workers
776	'Bread, cake and candy makers'	74	Other craft and related trades workers
777	'Tea-, coffee-, and cocoa-processing workers'	74	Other craft and related trades workers
778	'Bootleggers and lightweight'	82	Machine operators and assemblers
779	'Other food and beverage processing workers not elsewhere cl	74	Other craft and related trades workers
781	'Tobacco leaf processing workers'	82	Machine operators and assemblers
782	'Cigar makers'	82	Machine operators and assemblers
783	'Cigarette makers'	82	Machine operators and assemblers
789	'Tobacco processing workers not elsewhere classified'	82	Machine operators and assemblers
791	'Seamstress'	74	Other craft and related trades workers
792	'Leather and fur clothing makers'	74	Other craft and related trades workers
793	'Hatter'	74	Other craft and related trades workers
794	'Pattern maker and clothing cutter'	74	Other craft and related trades workers
795	'Tailor, embroidery, embroidery, and hem workers'	74	Other craft and related trades workers
796	'Car or motorbike seat makers and related workers'	74	Other craft and related trades workers
799	'Other related sewing business workers not elsewhere classif	74	Other craft and related trades workers
801	'Shoe makers and shoe repairing workers'	74	Other craft and related trades workers
802	'Shoe-part makers and related workers'	74	Other craft and related trades workers
803	'Leather goods makers'	74	Other craft and related trades workers
811	'Furniture makers'	74	Other craft and related trades workers
812	'Wood processing machine operators'	74	Other craft and related trades workers
819	'Other related wood-furniture makers not elsewhere classifie	74	Other craft and related trades workers
820	'Stone processing workers'	71	Extraction and building trades workers
831	'Blacksmiths, forging-press workers and metal thread pressin	72	Metal, machinery and related trades workers
832	'Toolmakers and related workers'	72	Metal, machinery and related trades workers
833	'Machine-tool setters'	72	Metal, machinery and related trades workers

<b>SAKERNAS 2005</b>		<b>ISCO-88</b>	
834	'Machine-tool operators'	72	Metal, machinery and related trades workers
835	'Metal wheel-grinders, polishers and tool sharpeners'	72	Metal, machinery and related trades workers
839	'Blacksmiths, tool-makers, and machine-tool operators not el	72	Metal, machinery and related trades workers
841	'Machinery installers and assemblers '	72	Metal, machinery and related trades workers
842	'Watch-, bell-, and precision-instruments workers'	73	Precision, handicraft, printing and related
843	'Motor vehicle mechanics'	72	Metal, machinery and related trades workers
844	'Aircraft engine mechanics'	72	Metal, machinery and related trades workers
849	'Machine mechanics, machine installers and assemblers and pr	82	Machine operators and assemblers
851	'Electrical machinery assemblers'	72	Metal, machinery and related trades workers
852	'Electronic equipment assemblers'	82	Machine operators and assemblers
853	'Electrical and electronic equipment installers'	71	Extraction and building trades workers
854	'Electronic mechanics'	72	Metal, machinery and related trades workers
855	'Electrical installer'	71	Extraction and building trades workers
856	'Telephone and telegraph installers'	71	Extraction and building trades workers
857	'Electric line installers and cable jointers'	72	Metal, machinery and related trades workers
859	'Electrical equipment- setters, electrical and electronic wo	71	Extraction and building trades workers
861	'Transmitter operators'	31	Physical and engineering science associate professionals
862	'Acoustic equipment film projector operators'	31	Physical and engineering science associate professionals
871	'Pipe fitters'	71	Extraction and building trades workers
872	'Welder'	72	Metal, machinery and related trades workers
873	'Sheet-metal workers'	72	Metal, machinery and related trades workers
874	'Building material from metal assemblers'	72	Metal, machinery and related trades workers

<b>SAKERNAS 2005</b>		<b>ISCO-88</b>	
880	'Jewelry and precious-metal workers'	73	Precision, handicraft, printing and related trades workers
891	'Glass-making machine operators and glass makers and related	73	Precision, handicraft, printing and related trades workers
892	'Ceramics and clays machine operators and workers'	73	Precision, handicraft, printing and related trades workers
893	'Glass, ceramics, clay and limestone arsonists'	73	Precision, handicraft, printing and related trades workers
894	'Glass engravers and etchers'	73	Precision, handicraft, printing and related trades workers
895	'Glass and ceramic decorative painters'	73	Precision, handicraft, printing and related trades workers
899	'Glass and ceramics workers not elsewhere classified'	73	Precision, handicraft, printing and related trades workers
901	'Rubber- and plastic-product machine operators, except for m	82	Machine operators and assemblers
902	'Tire production and retread tires workers'	82	Machine operators and assemblers
910	910	.	
921	'Compositors and typesetters'	73	Precision, handicraft, printing and related trades workers
922	'Printing machine operators'	82	Machine operators and assemblers
923	'Stereotypers and electrotypers'	73	Precision, handicraft, printing and related trades workers
924	'Printing engravers and machine operators, except with photo	82	Machine operators and assemblers
925	'Photographic engravers'	82	Machine operators and assemblers
926	'Bookbinders and related workers'	73	Precision, handicraft, printing and related trades workers
927	'Old fashion photographic printing workers'	82	Machine operators and assemblers
929	'Other related printing and related workers not elsewhere cl	82	Machine operators and assemblers
931	'Building painters'	71	Extraction and building trades workers
932	'Vehicle painters'	71	Extraction and building trades workers
939	'Painters not elsewhere classified'	71	Extraction and building trades workers
941	'Musical instrument workers and tuners'	73	Precision, handicraft, printing and related trades workers
942	'Wickerwork and brush workers'	74	Other craft and related trades workers

<b>SAKERNAS 2005</b>		<b>ISCO-88</b>	
943	'Non-metallic mineral and related workers'	74	Other craft and related trades workers
944	'Wood-curving-processing and related workers'	74	Other craft and related trades workers
945	'Bamboo-processing workers'	74	Other craft and related trades workers
946	'Rattan-processing workers'	74	Other craft and related trades workers
949	'Other goods processing workers not elsewhere classified'	74	Other craft and related trades workers
951	'Mason and tile pairs'	71	Extraction and building trades workers
952	'Cast concrete and terrazzo workers'	71	Extraction and building trades workers
953	'Roof tiles installers'	71	Extraction and building trades workers
954	'Carpenters'	71	Extraction and building trades workers
955	'Plasterers'	71	Extraction and building trades workers
956	'Isolation or insulation workers'	71	Extraction and building trades workers
957	'Glazier'	71	Extraction and building trades workers
959	'Other construction workers not elsewhere classified'	71	Extraction and building trades workers
961	'Power-production operators'	81	Stationary-plant and related operators
969	'Stationary machine and equipment operator not elsewhere cla	81	Stationary-plant and related operators
971	'Port blue-collar workers and porters'	91	Sales and services elementary occupations
973	'Crane operators and lifters'	83	Drivers and mobile-plant operators
974	'Earth-moving operators'	83	Drivers and mobile-plant operators
979	'Other forklift and lifter operators not elsewhere classifie	83	Drivers and mobile-plant operators
981	'Boat sailors'	83	Drivers and mobile-plant operators
982	'Ship's engine room seamen''	83	Drivers and mobile-plant operators
983	'Machinist and train stokers'	83	Drivers and mobile-plant operators
984	'Brake-, train signal-, and train slender operators'	83	Drivers and mobile-plant operators
985	'Motor vehicle drivers'	83	Drivers and mobile-plant operators
986	'Animal-drawn vehicle drivers'	93	Labourers in mining, construction, manufacturing and transport
987	'Rickshaws and pedal vehicle drivers'	93	Labourers in mining, construction, manufacturing and transport
989	'Other transport workers not elsewhere classified'	93	Labourers in mining, construction, manufacturing and transport

SAKERNAS 2005		ISCO-88	
999	'Blue-collar workers not elsewhere classified'	93	Labourers in mining, construction, manufacturing and transport

Note: army member recoded to missing because armed forces have no RTI/Offshoring score. \*\* Recode because in Indonesia those occupations are included in elementary worker.

Source: authors' own compilation based on mapping ISCO-68 to ISCO-88 by Ganzeboom, H.B.G., and D.J. Treiman (2013). 'International Stratification and Mobility File: Conversion Tools'. Amsterdam: Department of Social Research Methodology. Available at: <http://www.harryganzeboom.nl/ISMF/index.htm>. SAKERNAS: National Labour Force Survey (*Survey Angkatan Kerja Nasional*).

Table 3: Detailed Indonesia-specific mapping in 2010 data

SAKERNAS 2010		ISCO-88	
110	Army members	.	
120	Navy members	.	
130	Air force members	.	
140	Police members	5162	Police officers *
190	Other elements of defense and other security	5169	Protective services workers not elsewhere classified *
2214	Animal husbandry researchers	2213	Agonomists and related professionals *
2231	Nursing professionals	2230	Nursing and midwifery professionals *
2232	Midwifery professionals	2230	Nursing and midwifery professionals *
2311	Economist	2441	Economist *
2312	Sociologists, anthropologists and related professionals	2442	Sociologists, anthropologists and related professionals *
2313	Philosophers, historians and political scientists	2443	Philosophers, historians and political scientists *
2314	Language experts, translators, and interpreters	2444	Philologists, translators and interpreters *
2315	Psychologists	2445	Psychologists *
2316	Social work professionals	2446	Social work professionals *
2410	College, university and higher education teaching profession	2310	College, university and higher education teaching professionals *
2421	Senior secondary education teaching professionals	2320	Secondary education teaching professionals *

<b>SAKERNAS 2010</b>		<b>ISCO-88</b>		
2422	Junior secondary education teaching professionals	2320	Secondary education teaching professionals	*
2431	Primary education teaching professionals	2331	Primary education teaching professionals	*
2432	Pre-primary education teaching professionals	2332	Pre-primary education teaching professionals	*
2440	Non-formal education teaching professionals	2332	Pre-primary education teaching professionals	*
2450	Special education teaching professionals	2340	Special education teaching professionals	*
2461	Education methods specialists	2351	Education methods specialists	*
2462	School inspectors	2352	School inspectors	*
2469	Other teaching professionals not elsewhere classified	2359		*
2511	Lawyers	2421	Lawyers	*
2512	Judges	2422	Judges	*
2513	Attorney	2422	Judges	*
2519	Legal professionals not elsewhere classified	2429	Legal professionals not elsewhere classified	*
2611	Accountants	2411	Accountants	*
2612	Personnel and careers professionals	2412	Personnel and careers professionals	*
2619	Business professionals not elsewhere classified	2419	Business professionals not elsewhere classified	*
2911	Archivists and curators	2431	Archivists and curators	*
2912	Librarians and related information professionals	2432	Librarians and related information professionals	*
2921	Authors and critics	2451	Authors, journalists and other writers	*
2922	Journalists	2451	Authors, journalists and other writers	*
2923	Writers and related professionals	2451	Authors, journalists and other writers	*
2924	Sculptors, painters and related artists	2452	Sculptors, painters and related artists	*
2925	Composers, musicians and singers (except street singers)	2453	Composers, musicians and singers	*

<b>SAKERNAS 2010</b>		<b>ISCO-88</b>		
2926	Choreographers and dancers	2454	Choreographers and dancers	*
2927	Puppeteers, gamelan payers, and related artists	2455	Film, stage and related actors and directors	*
2928	Film, stage and related actors and directors	2455	Film, stage and related actors and directors	*
2931	Ulama and related professionals in Islam religion	2460	Religious professionals	*
2932	Christian-Prosestant priest and related professionals	2460	Religious professionals	*
2933	Christian-Catholic priest and related professionals	2460	Religious professionals	*
2934	Monks and related professionals in Budhaism religion	2460	Religious professionals	*
2935	Pastor and related personnel in Hinduism religion	2460	Religious professionals	*
2939	Other religious professionals not elsewhere classified	2460	Religious professionals	*
3310	special education teaching associate professionals	3330	Special education teaching associate professionals	*
3320	Other teaching associate professionals	3340	Other teaching associate professionals	*
3511	Trade brokers	3421	Trade brokers	*
3512	Clearing and forwarding agents	3422	Clearing and forwarding agents	*
3513	Employment agents and labour contractors	3423	Employment agents and labour contractors	*
3519	Business services agents and trade brokers not elsewhere cla	3429	Business services agents and trade brokers not elsewhere classified	*
3911	Administrative secretaries and related associate professiona	3431	Administrative secretaries and related associate professionals	*
3912	Legal and related business associate professionals	3432	Legal and related business associate professionals	*
3913	Bookkeepers	3433	Bookkeepers	*
3914	Statistical, mathematical and related associate professional	3434	Statistical, mathematical and related associate professionals	*
3919	Administrative associate professionals not elsewhere classif	3439	Administrative associate professionals not elsewhere classified	*

<b>SAKERNAS 2010</b>		<b>ISCO-88</b>		
3921	Customs and border inspectors	3441	Customs and border inspectors	*
3922	Government tax and excise officials	3442	Government tax and excise officials	*
3923	Government social benefits officials	3443	Government social benefits officials	*
3924	Government licensing officials	3444	Government licensing officials	*
3929	Customs, tax and related government associate professionals	3449	Customs, tax, and related government associate professionals not elsewhere classified	*
3930	Police inspectors and detectives	3450	Police inspectors and detectives	*
3940	Social work associate professionals	3460	Social work associate professionals	*
3951	Decorators and commercial designers	3471	Decorators and commercial designers	*
3952	Radio, television and other announcers	3472	Radio, television and other announcers	*
3953	Street, night-club and related musicians, singers and dancer	3473	Street, night-club and related musicians, singers and dancers	*
3954	Clowns, magicians, acrobats and related associate profession	3474	Clowns, magicians, acrobats and related associate professionals	*
3955	Athletes, sportspersons and related associate professionals	3475	Athletes, sportspersons and related associate professionals	*
3960	Religious associate professionals	3480	Religious associate professionals	*
4213	Pawnbrokers and money-lenders	4214	Pawnbrokers and moneylenders	*
4214	Debt-collectors and related workers	4215	Debt-collectors and related workers	*
6111	Field crop and vegetable growers	92	Agricultural, fishery and related labourers	**
6112	Tree and shrub crop growers	92	Agricultural, fishery and related labourers	**
6113	Gardeners, horticultural and nursery growers	92	Agricultural, fishery and related labourers	**
6121	Dairy and livestock producers	92	Agricultural, fishery and related labourers	**
6122	Poultry producers	92	Agricultural, fishery and related labourers	**
6129	Market-oriented animal producers and related workers not els	92	Agricultural, fishery and related labourers	**
6141	Forestry workers and loggers	92	Agricultural, fishery and related labourers	**
6142	Charcoal burners and related workers	92	Agricultural, fishery and related labourers	**

SAKERNAS 2010		ISCO-88	
7438	Batik makers	7435	Textile, leather and related pattern-makers and cutters *
8124	Metal caster operators	8122	Metal melters, casters and rolling-mill operators *
8125	Metal heater operators	8123	Metal-heat-treating-plant operators *
8126	Metal drawers and extruders	8124	Metal drawers and extruders *

Note: army member recoded to missing because armed forces have no RTI/Offshoring score. \* Recode because some occupations in SAKERNAS 2010 have different codes with ISCO-88. \*\* Recode because in Indonesia those occupations are included in elementary worker.

Source: authors' own compilation based on the International Standard Classification of Occupations, ISCO-88: <https://www.ilo.org/public/english/bureau/stat/isco/isco88/major.htm>. SAKERNAS: National Labour Force Survey (Survey Angkatan Kerja Nasional).

Table 4: Detailed Indonesia-specific mapping in 2015 data

SAKERNAS 2015		ISCO-88	
1	Anggota angkatan darat	.	.
2	Anggota angkatan laut	.	.
3	Anggota kepolisian	.	.
4	Anggota kepolisian	51	Personal and protective services workers
9	unsur pertahanan dan keamanan lainnya	51	Personal and protective services workers
11	Peneliti kimia	21	Physical, mathematical and engineering science professionals
13	Peneliti ilmu pengetahuan alam lainnya	21	Physical, mathematical and engineering science professionals
14	Teknisi ilmu pengetahuan alam	32	Life science and health associate professionals
22	Ahli teknik sipil	21	Physical, mathematical and engineering science professionals
23	Ahli teknik listrik dan elektronika	21	Physical, mathematical and engineering science professionals
27	Ahli teknik pertambangan	21	Physical, mathematical and engineering science professionals
29	Ahli teknik lain ytdl	21	Physical, mathematical and engineering science professionals
31	Teknik survei tanah dan topografi	31	Physical and engineering science associate professionals
32	Perancang gambar teknik	31	Physical and engineering science associate professionals

<b>SAKERNAS 2015</b>		<b>ISCO-88</b>	
33	Teknisi teknik sipil	31	Physical and engineering science associate professionals
34	Teknisi teknik listrik dan elektronik	31	Physical and engineering science associate professionals
35	Teknisi teknik mesin	31	Physical and engineering science associate professionals
36	Teknisi teknik kimia	31	Physical and engineering science associate professionals
37	Teknisi metalurgi	31	Physical and engineering science associate professionals
39	Teknisi lain ytdl	31	Physical and engineering science associate professionals
41	penerbang, navigator, dan ahli mesin pesawat udara	31	Physical and engineering science associate professionals
42	perwira kapal, pemandu kapal dan syahbandar	31	Physical and engineering science associate professionals
43	Ahli mesin kapal	21	Physical, mathematical and engineering science professionals
52	Peneliti bakteriologi, farmakologi hewan ternak dan penel	32	Life science and health associate professionals
53	Peneliti peternakan	22	Life science and health associate professionals
54	Peneliti agronomi dan peneliti lain ybdi	22	Life science and health professionals
62	Asisten dokter	32	Life science and health associate professionals
63	Dokter gigi	22	Life science and health professionals
64	Asisten dokter gigi	32	Life science and health associate professionals
65	Dokter hewan	22	Life science and health professionals
66	Asisten dokter hewan	32	Life science and health associate professionals
67	A p o t e k e r	22	Life science and health professionals
68	Asisten apoteker	32	Life science and health associate professionals
69	Ahli diit dan gizi kesehatan masyarakat	22	Life science and health professionals
71	Perawat ahli	22	Life science and health professionals
72	Perawat	32	Life science and health associate professionals
73	Bidan ahli	22	Life science and health professionals
74	Bidan	32	Life science and health associate professionals

<b>SAKERNAS 2015</b>		<b>ISCO-88</b>	
75	Ahli optomerik dan ahli optik	22	Life science and health professionals
79	Tenaga dibidang kesehatan dan tenaga ybdi, ytdl	32	Life science and health associate professionals
81	ahli statistika	21	Physical, mathematical and engineering science professionals
82	Ahli matematika dan aktuaris	21	Physical, mathematical and engineering science professionals
83	Ahli analisa sistem	21	Physical, mathematical and engineering science professionals
84	Teknisi dibidang statistika dan matematika	31	Physical and engineering science associate professionals
90	ahli ekonomi	24	Other professionals
110	akuntan	24	Other professionals
121	Pengacara	24	Other professionals
122	H a k i m	24	Other professionals
123	J a k s a	24	Other professionals
129	Notaris dan ahli hukum ytdl	24	Other professionals
131	Pengajar perguruan tinggi dan akademi	23	Teaching professionals
132	Pengajar sekolah lanjutan atas	23	Teaching professionals
133	Pengajar sekolah lanjutan pertama	23	Teaching professionals
134	Pengajar sekolah dasar	23	Teaching professionals
135	Pengajar pra sekolah	23	Teaching professionals
136	Pengajar pendidikan luar sekolah	23	Teaching professionals
137	Pengajar sekolah luar biasa	23	Teaching professionals
139	Pengajar ytdl	23	Teaching professionals
141	Ulama (ahli tafsir, mubaligh dan tenaga lain ybdi dalam	24	Other professionals
142	Pendeta kristen prosestan dan tenaga lain ybdi	34	Other associate professionals
143	Pastor kristen katolik dan tenaga lain ybdi	34	Other associate professionals
145	Pendeta/pedanda dan tenaga lain ybdi dalam agama hindu	34	Other associate professionals
149	Tenaga dibidang keagamaan ytdi	34	Other associate professionals
151	Penulis dan kritikus	24	Other professionals
152	Wartawan, reporter, ahli penerangan, pengulas berita dan	24	Other professionals

<b>SAKERNAS 2015</b>		<b>ISCO-88</b>	
161	Pemahat, pelukis dan seniman ybdi	34	Other associate professionals
162	Seniman dan perancang ilustrasi	24	Other professionals
171	Komponis, pengubah, musikus dan penyanyi	34	Other associate professionals
172	Pencipta tari dan penari	24	Other professionals
173	Sutradara dan artis	24	Other professionals
175	Pelawak, pemain sulap dan pemain sirkus	24	Other professionals
176	dalang, penabuh gamelan dan seniman lain ybdi	34	Other associate professionals
177	Protokol, penyiar dan seniman yang sejenis	34	Other associate professionals
180	Olahragawan, pelatih, pengurus olahraga dan tenaga lain	34	Other associate professionals
191	Ahli perpustakaan, ahli kearsipan dan kurator	24	Other professionals
192	Ahli ilmu-ilmu pengetahuan sosial lainnya	24	Other professionals
193	Pekerja sosial	34	Other associate professionals
194	Ahli manajemen kepegawaian dan jabatan	24	Other professionals
195	Ahli bahasa, penterjemah dan iterpretasi bahasa	24	Other professionals
199	Tenaga profesional, teknisi dan tenaga lainnya ybdi	34	Other associate professionals
201	Pejabat lembaga legislatif	11	Legislators and senior officials
202	Pejabat tinggi pemerintahan	34	Other associate professionals
211	Menejer utama	13	General managers
212	Menejer produksi (kecuali produksi pertanian)	12	Corporate managers
216	Menejer personalia	12	Corporate managers
217	Menejer penelitian dan pengembangan	12	Corporate managers
219	Menejer ytdl	12	Corporate managers
310	Pejabat pelaksana pemerintahan	34	Other associate professionals
321	Juru steno dan juru tik	41	Office clerks
323	Juru teleks	41	Office clerks
331	Pemegang buku dan tenaga ybdi	34	Other associate professionals

SAKERNAS 2015		ISCO-88	
332	Kasir dan tenaga ybdi	42	Customer services clerks
339	339	41	Office clerks
341	Operator mesin pembukuan dan mesin hitung	41	Office clerks
342	Operator komputer dan mesin pengolah data	31	Physical and engineering science associate professionals
351	Kepala stasiun kereta api	12	Corporate managers
359	Penyelia dibidang angkutan dan komunikasi ytdl	12	Corporate managers
360	Tenaga perjalanan angkutan darat	51	Personal and protective services workers
371	Tenaga pengantar surat-surat	41	Office clerks
380	Operator radio, telepon dan telegraf atau alat komunikas	42	Customer services clerks
391	juru tata usaha pergudangan/logistik	41	Office clerks
392	juru tata usaha perencanaan material dan produksi	41	Office clerks
393	juru tata usaha perkantoran (laporan dan korespondensi)	41	Office clerks
394	Resepsionis dan juru tata usaha biro perjalanan	41	Customer services clerks
395	juru tata usaha perpustakaan dan kearsipan	41	Office clerks
399	juru tata usaha ytdl	41	Office clerks
400	Menejer usaha perdagangan besar dan eceran	13	General managers
421	Penyelia penjualan	12	Corporate managers
422	Tenaga pembelian	34	Other associate professionals
431	Penjual barang teknik dan penasehat jasa teknik	34	Other associate professionals
441	Tenaga pemasaran asuransi	34	Other associate professionals
442	Tenaga penjualan/persewaan usaha tanah dan bangunan	52	Models, salespersons and demonstrators
443	Tenaga penjualan surat-surat berharga	52	Models, salespersons and demonstrators
444	Tenaga penjualan usaha jasa perusahaan	52	Models, salespersons and demonstrators
445	Juru lelang dan juru taksir	52	Models, salespersons and demonstrators
451	Tenaga penjualan, pramuniaga dan peraga barang niaga	52	Models, salespersons and demonstrators

SAKERNAS 2015		ISCO-88		
452	Pedagang kaki lima, pedagang keliling dan tenaga penjual	91	Sales and services elementary occupations	
490	Tenaga usaha penjualan yang tidak dapat diklasifikasikan	52	Models, salespersons and demonstrators	
500	Menejer usaha penyediaan makanan (katering) dan penginap	12	Corporate managers	
520	Pengurus kerumahtangaan dan jasa ybdi	51	Personal and protective services workers	
532	Pelayan restoran dan bar serta tenaga ybdi	51	Personal and protective services workers	
540	Penbantu rumah tangga dan tenaga jasa kerumahtangaan yb	91	Sales and services elementary occupations	
551	Pemelihara dan penjaga gedung	91	Sales and services elementary occupations	
560	Penatu dan tenaga ybdi	82	Machine operators and assemblers	
570	Penata rambut, pemangkas rambut, perawat kecantikan dan	51	Personal and protective services workers	
581	Tenaga pemadam kebakaran	51	Personal and protective services workers	
582	Polisi khusus dan tenaga jasa keamanan	34	Other associate professionals	
589	Tenaga jasa perlindungan keamanan lainnya	51	Personal and protective services workers	
591	Pramuwisata/penunjuk jalan	51	Personal and protective services workers	
593	Tenaga jasa kesehatan	51	Personal and protective services workers	
599	Tenaga usaha jasa lainnya	91	Personal and protective services workers	
611	Petani tanaman campuran	61	Subsistence agricultural and fishery workers	**
613	Peternak	61	Market-oriented skilled agricultural and fishery workers	**
621	Pekerja pertanian dan peternakan umum	92	Agricultural, fishery and related labourers	**
622	Pekerja pertanian tanaman musiman (tanaman padi, kapas,	92	Agricultural, fishery and related labourers	**
623	Pekerja pertanian tanaman tahunan (karet, teh, kelapa sa	92	Agricultural, fishery and related labourers	**
627	Pekerja pembibitan, juru tanaman dan kebun	92	Agricultural, fishery and related labourers	**
629	Pekerja pertanian dan peternakan lainnya ybdi	92	Agricultural, fishery and related labourers	**
630	Menejer, pengusaha HPH dan penyelia usaha kehutanan	13	General managers	

SAKERNAS 2015		ISCO-88		
632	Tenaga usaha kehutanan	91	Agricultural, fishery and related labourers	**
640	Menejer, pengusaha dan penyelia usaha perikanan dan perb	13	General managers	
641	Tenaga budidaya perikanan darat	61	Market-oriented skilled agricultural and fishery workers	
644	Tenaga usaha penangkapan ikan laut (kecuali nahkoda dan	61	Market-oriented skilled agricultural and fishery workers	
646	Tenaga usaha perburuan	61	Market-oriented skilled agricultural and fishery workers	
649	Tenaga usaha perikanan dan perburuan ybdi, ytdl	61	Market-oriented skilled agricultural and fishery workers	
711	Tenaga pertambangan, pendulangan dan penggalian	71	Extraction and building trades workers	
713	Tenaga pengeboran sumur minyak, gas bumi serta mineral l	71	Extraction and building trades workers	
721	Tukang dapur peleburan dan pemurnian logam dasar	82	Machine operators and assemblers	
722	Tenaga giling logam (operator mesin penggilingan logam)	82	Machine operators and assemblers	
723	Tukang peleburan dan pemanasan ulang logam dasar	82	Machine operators and assemblers	
724	Tukang cor logam	82	Machine operators and assemblers	
726	Tukang pengatur panas dan pengerasan logam	82	Machine operators and assemblers	
727	Tukang membuat kawat dan pipa	72	Metal, machinery and related trades workers	
731	tenaga pengolahan dan pengawet kayu	81	Stationary-plant and related operators	
733	Operator mesin pembuatan bubur kertas	81	Stationary-plant and related operators	
734	Operator mesin dan tukang membuat kertas	81	Stationary-plant and related operators	
741	Operator mesin pemecah, penggiling dan pencampur bahan k	81	Stationary-plant and related operators	
742	Tukang masak dan pemanasan bahan kimia	81	Stationary-plant and related operators	
743	Operator mesin penyaring dan pemisah	81	Stationary-plant and related operators	
744	Operator alat penyuling dan reaktor	81	Stationary-plant and related operators	
745	Tenaga pengilang minyak bumi	81	Stationary-plant and related operators	

<b>SAKERNAS 2015</b>		<b>ISCO-88</b>	
749	Tenaga pengolahan bahan kimia ybdi ytdl	81	Stationary-plant and related operators
756	Tukang pemutih, pencelup dan tenaga ybdi	82	Machine operators and assemblers
757	Tenaga pembatikan	82	Machine operators and assemblers
759	Tenaga pemintalan, pertununan, perajutan, pencelupan dan	82	Machine operators and assemblers
761	Tenaga penyamak kulit	74	Other craft and related trades workers
771	Tenaga penggilingan padi-padian dan yang sejenis	82	Machine operators and assemblers
772	Tenaga pengolahan dan penyulingan gula	82	Machine operators and assemblers
773	Tukang potong hewan dan pengolahan daging	74	Other craft and related trades workers
774	Tenaga pengawetan makanan	82	Machine operators and assemblers
775	Pengolah susu dan hasil dari susu	74	Other craft and related trades workers
776	Pembuat roti, kue dan kembang gula	74	Other craft and related trades workers
777	pengolah teh, kopi, dan coklat	74	Other craft and related trades workers
778	Pembuat minuman keras dan ringan	82	Machine operators and assemblers
781	Pengolah daun tembakau	82	Machine operators and assemblers
792	Penjahit pakaian dari kulit dan bulu binatang	74	Other craft and related trades workers
793	Pembuat topi	74	Other craft and related trades workers
795	Tukang jahit, sulam, bordir dan obras	74	Other craft and related trades workers
796	Tukang jok dan tenaga ybdi	74	Other craft and related trades workers
801	Tukang sepatu dan perbaikan sepatu	74	Other craft and related trades workers
802	Pembuat bagian sepatu dan tenaga ybdi	74	Other craft and related trades workers
803	Pembuat barang dari kulit	74	Other craft and related trades workers
811	Pembuat perabot rumah tangga	74	Other craft and related trades workers
812	Operator mesin pengolah kayu	74	Other craft and related trades workers
819	Tenaga pembuatan perabot rumah tangga dari kayu dan ten	74	Other craft and related trades workers
820	Tukang pengolah batu	71	Extraction and building trades workers
831	Pandai besi, tukang tempa dan operator mesin pres benang	72	Metal, machinery and related trades workers
832	Pembuat perkakas dan tenaga ybdi	72	Metal, machinery and related trades workers

<b>SAKERNAS 2015</b>		<b>ISCO-88</b>	
833	Operator pasang mesin perkakas	72	Metal, machinery and related trades workers
835	Tukang gurinda, poles dan asah perkakas	72	Metal, machinery and related trades workers
841	Tukang pasang dan merakit mesin	72	Metal, machinery and related trades workers
842	Tukang membuat jam, lonceng dan alat presisi	73	Precision, handicraft, printing and related
849	Montir mesin, tenaga pemasangan dan perakitan mesin ser	82	Machine operators and assemblers
851	Tukang memasang mesin dan peralatan listrik	72	Metal, machinery and related trades workers
853	Tukang merakit pesawat listrik dan elektronik	71	Extraction and building trades workers
855	Instalator listrik	71	Extraction and building trades workers
856	Instalator pesawat telepon dan telegraf	71	Extraction and building trades workers
857	Instalator jaringan kabel listrik	72	Metal, machinery and related trades workers
859	Tenaga pemasangan pesawat listrik, tenaga perlistrikan	71	Extraction and building trades workers
861	Operator stasiun pemancar	31	Physical and engineering science associate professionals
872	Tukang las	72	Metal, machinery and related trades workers
873	Tukang membuat barang dari logam lempengan	72	Metal, machinery and related trades workers
874	Tukang memasang bahan bangunan dari logam	72	Metal, machinery and related trades workers
880	Tenaga pembuatan perhiasan dan barang logam mulia	73	Precision, handicraft, printing and related trades workers
891	Operator mesin dan tukang membuat gelas dan tenaga ybdi	73	Precision, handicraft, printing and related trades workers
892	Operator mesin dan tukang membuat barang dari keramik da	73	Precision, handicraft, printing and related trades workers
894	Tukang ukir dan esta barang dari gelas	73	Precision, handicraft, printing and related trades workers
901	Operator mesin dan tukang membuat barang dari karet dan	82	Machine operators and assemblers
910	910	.	.

<b>SAKERNAS 2015</b>		<b>ISCO-88</b>	
921	Tukang memasang dan menyusun huruf	73	Precision, handicraft, printing and related trades workers
924	Operator mesin dan tukang membuat gravir klise cetak (ke	82	Machine operators and assemblers
926	Tukang jilid buku dan tenaga ytdl	73	Precision, handicraft, printing and related trades workers
927	Tukang cuci foto	82	Machine operators and assemblers
929	Tenaga pencetakan dan tenaga ybdi, ytdl	82	Machine operators and assemblers
932	Tukang cat kendaraan	71	Extraction and building trades workers
939	Tukang cat ytdl	71	Extraction and building trades workers
941	Tukang membuat alat musik dan mengatur nada	73	Precision, handicraft, printing and related trades workers
942	Tukang membuat barang anyaman dan sikat	74	Other craft and related trades workers
949	Tenaga membuat barang lain dan tenaga ybdi	74	Other craft and related trades workers
951	Tukang batu dan pasang ubin	71	Extraction and building trades workers
953	Tukang pasang genteng dan atap	71	Extraction and building trades workers
954	Tukang kayu	71	Extraction and building trades workers
955	Tukang plester	71	Extraction and building trades workers
956	Tukang pasang isolasi/penyekat	71	Extraction and building trades workers
957	Tukang kaca	71	Extraction and building trades workers
959	Tenaga bangunan ytdl	71	Extraction and building trades workers
961	Operator mesin dan pembangkit tenaga listrik	81	Stationary-plant and related operators
969	Operator mesin stasioner dan peralatan sejenis ytdl	81	Stationary-plant and related operators
971	Pekerja kasar pelabuhan dan pekerja angkat barang muatan	91	Sales and services elementary occupations
972	Pekerja pemasangan dan penyambung tali kabel mesin derek	93	Labourers in mining, construction, manufacturing and transport
974	Operator mesin pemindah dan perata tanah	83	Drivers and mobile-plant operators
979	Operator mesin pengangkat dan pemindah barang ytdl	83	Drivers and mobile-plant operators
982	Kelasi kamar mesin kapal	83	Drivers and mobile-plant operators
983	Masinis dan juru api kereta api	83	Drivers and mobile-plant operators

<b>SAKERNAS 2015</b>		<b>ISCO-88</b>	
984	Pelayan rem, juru sinyal dan juru langsir kereta api	83	Drivers and mobile-plant operators
985	Pengemudi kendaraan bermotor	83	Drivers and mobile-plant operators
986	Kusir kereta dengan tenaga hewan	93	Labourers in mining, construction, manufacturing and transport
987	Pengemudi becak dan kendaraan berpedal	93	Labourers in mining, construction, manufacturing and transport
989	Pekerja alat angkutan ytdl	93	Labourers in mining, construction, manufacturing and transport
999	Pekerja kasar yang tidak dapat diklasifikasikan di tempa	93	Labourers in mining, construction, manufacturing and transport

Note: army member recoded to missing because armed forces have no RTI/Offshoring score. \*\* Recoded because in Indonesia those occupations are included in elementary worker.

Source: authors' own compilation based on mapping ISCO-68 to ISCO-88 by Ganzeboom, H.B.G., and D.J. Treiman (2013). 'International Stratification and Mobility File: Conversion Tools'. Amsterdam: Department of Social Research Methodology. Available at: <http://www.harryganzeboom.nl/ISMF/index.htm>. SAKERNAS: National Labour Force Survey (*Survey Angkatan Kerja Nasional*).