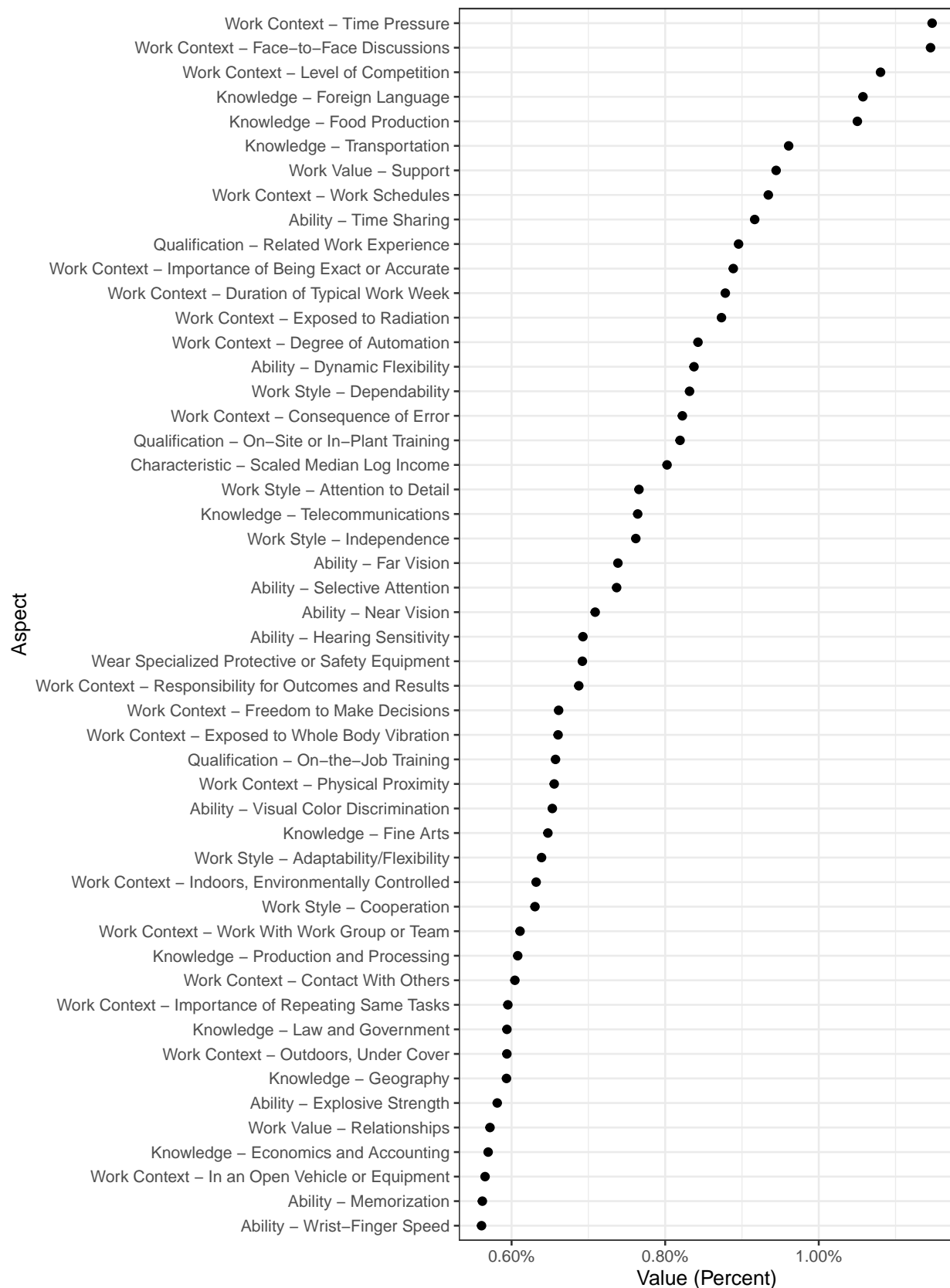


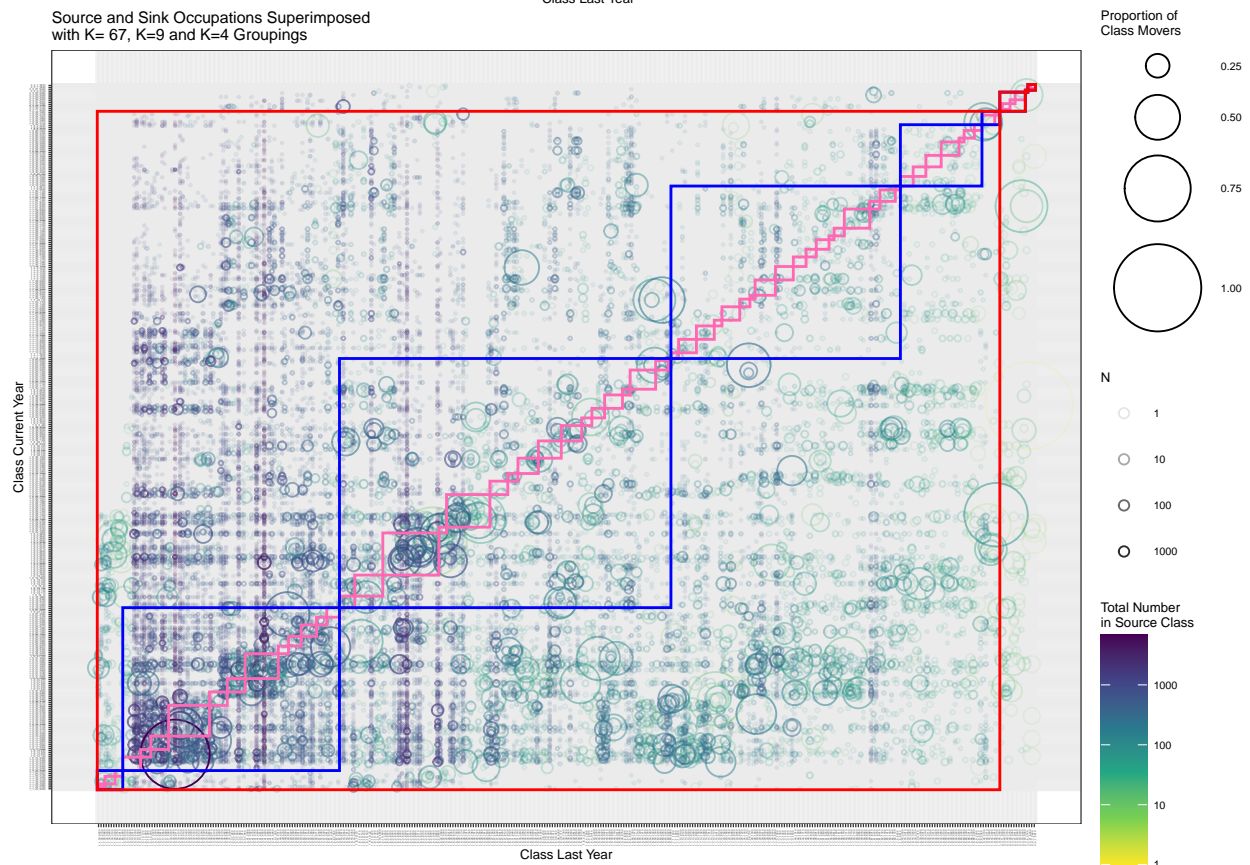
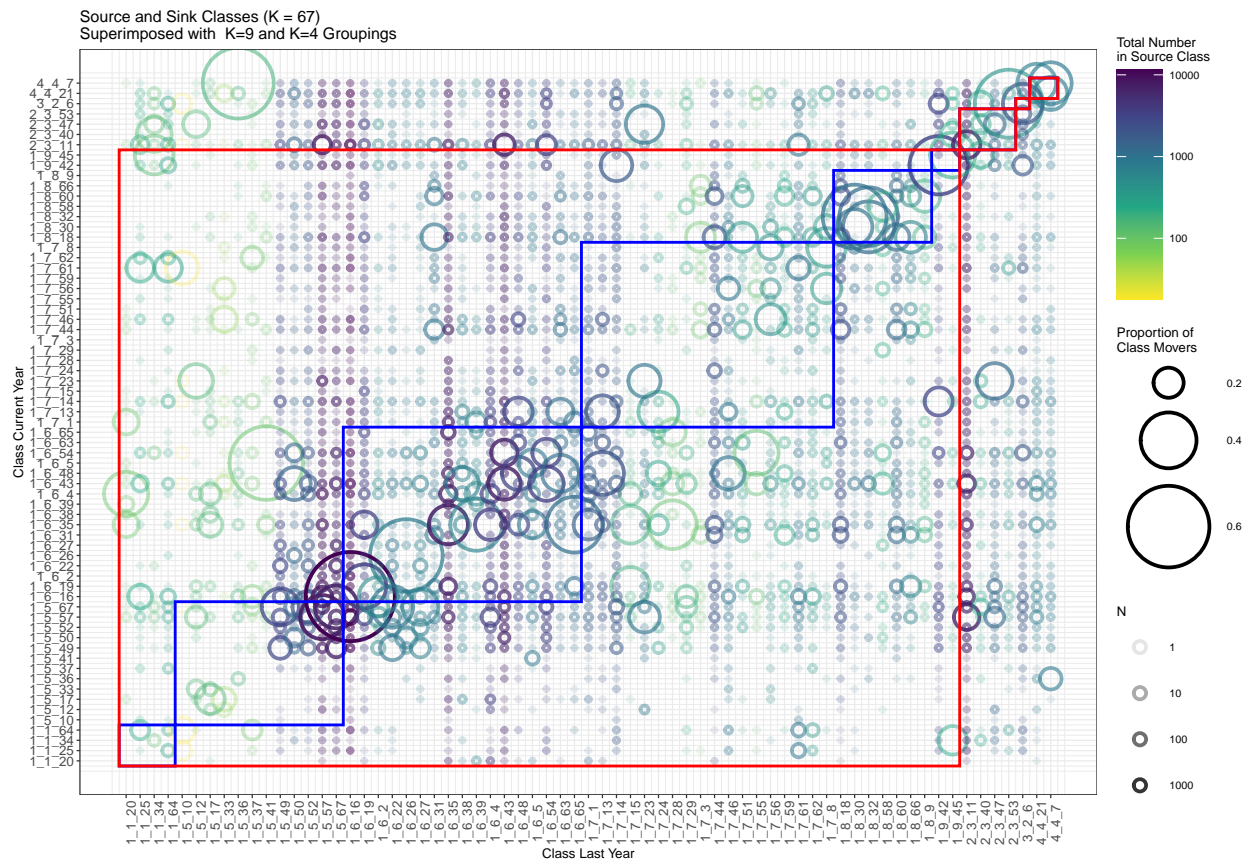
analysis_viii_III

Hunter York

12/24/2020

Contribution of Top 35 Occupational Aspects to Class Closure (Total Aspects: N = 245)





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	Method	Macro (4)	Meso (9)	Micro (67)
1	Nested ONET-Based	0.98	0.54	0.18
2	Traditional	0.70	0.45	0.18

1

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	Title	Class_67	Class_9	Class_4
1	Dredge, excavating, and loadin	1_1_20	1_1	1
2	Actors	1_1_25	1_1	1
3	Miscellaneous media and commun	1_1_25	1_1	1
4	Dietitians and nutritionists	1_1_34	1_1	1
5	Optometrists	1_1_34	1_1	1
6	Audiologists	1_1_34	1_1	1
7	Speech-language pathologists	1_1_34	1_1	1
8	Musicians, singers, and relate	1_1_64	1_1	1
9	Photographers	1_1_64	1_1	1
10	Television, video, and motion	1_1_64	1_1	1
11	Bill and account collectors	1_5_10	1_5	1
12	Credit authorizers, checkers,	1_5_10	1_5	1
13	Customer service representativ	1_5_10	1_5	1
14	Interviewers, except eligibili	1_5_10	1_5	1
15	Loan interviewers and clerks	1_5_10	1_5	1
16	New accounts clerks	1_5_10	1_5	1
17	Correspondence clerks and orde	1_5_10	1_5	1
18	Financial managers	1_5_12	1_5	1
19	Accountants and auditors	1_5_12	1_5	1
20	Financial examiners	1_5_12	1_5	1
21	Tax examiners, collectors, and	1_5_12	1_5	1
22	Court, municipal, and license	1_5_17	1_5	1
23	Cargo and freight agents	1_5_17	1_5	1
24	Postal service mail sorters, p	1_5_17	1_5	1
25	Shipping, receiving, and traff	1_5_17	1_5	1
26	Mail clerks and mail machine o	1_5_17	1_5	1
27	Office machine operators, exce	1_5_17	1_5	1
28	Office and administrative supp	1_5_17	1_5	1
29	Food preparation workers	1_5_33	1_5	1
30	Bartenders	1_5_33	1_5	1
31	Waiters and waitresses	1_5_33	1_5	1
32	Food servers, nonrestaurant	1_5_33	1_5	1
33	Food preparation and serving r	1_5_33	1_5	1
34	Dishwashers	1_5_33	1_5	1
35	Gaming services workers	1_5_33	1_5	1
36	Miscellaneous entertainment at	1_5_33	1_5	1
37	Baggage porters, bellhops, and	1_5_33	1_5	1
38	Cashiers	1_5_33	1_5	1
39	Counter and rental clerks	1_5_33	1_5	1
40	Gaming cage workers	1_5_33	1_5	1
41	Tellers	1_5_33	1_5	1
42	Hotel, motel, and resort desk	1_5_33	1_5	1
43	Postal service clerks	1_5_33	1_5	1
44	Packers and packagers, hand	1_5_33	1_5	1
45	Billing and posting clerks and	1_5_36	1_5	1
46	Bookkeeping, accounting, and a	1_5_36	1_5	1
47	Payroll and timekeeping clerks	1_5_36	1_5	1
48	Receptionists and information	1_5_36	1_5	1
49	Secretaries and administrative	1_5_36	1_5	1

	Title	Class_67	Class_9	Class_4
1	Word processors and typists	1_5_36	1_5	1
2	Office clerks, general	1_5_36	1_5	1
3	Announcers	1_5_41	1_5	1
4	Public relations specialists	1_5_41	1_5	1
5	Parts salespersons	1_5_41	1_5	1
6	Retail salespersons	1_5_41	1_5	1
7	Advertising sales agents	1_5_41	1_5	1
8	Insurance sales agents	1_5_41	1_5	1
9	Securities, commodities, and f	1_5_41	1_5	1
10	Travel agents	1_5_41	1_5	1
11	Sales representatives, wholesa	1_5_41	1_5	1
12	Real estate brokers and sales	1_5_41	1_5	1
13	Telemarketers	1_5_41	1_5	1
14	Agents and business managers o	1_5_41	1_5	1
15	Reservation and transportation	1_5_41	1_5	1
16	Janitors and building cleaners	1_5_49	1_5	1
17	Maids and housekeeping cleaner	1_5_49	1_5	1
18	Laundry and dry-cleaning worke	1_5_49	1_5	1
19	Cleaners of vehicles and equip	1_5_49	1_5	1
20	Ushers, lobby attendants, and	1_5_50	1_5	1
21	Models, demonstrators, and pro	1_5_50	1_5	1
22	Door-to-door sales workers, ne	1_5_50	1_5	1
23	Switchboard operators, includi	1_5_50	1_5	1
24	Telephone operators	1_5_50	1_5	1
25	Library technicians	1_5_57	1_5	1
26	File Clerks	1_5_57	1_5	1
27	Library assistants, clerical	1_5_57	1_5	1
28	Data entry keyers	1_5_57	1_5	1
29	Brokerage clerks	1_5_37	1_5	1
30	Budget analysts	1_5_37	1_5	1
31	Credit analysts	1_5_37	1_5	1
32	Personal financial advisors	1_5_37	1_5	1
33	Insurance underwriters	1_5_37	1_5	1
34	Loan counselors and officers	1_5_37	1_5	1
35	Tax preparers	1_5_37	1_5	1
36	Procurement clerks	1_5_67	1_5	1
37	Eligibility interviewers, gove	1_5_67	1_5	1
38	Claims adjusters, appraisers,	1_5_67	1_5	1
39	Weighers, measurers, checkers,	1_5_67	1_5	1
40	Insurance claims and policy pr	1_5_67	1_5	1
41	Bakers	1_5_52	1_5	1
42	Butchers and other meat, poult	1_5_52	1_5	1
43	Food and tobacco roasting, bak	1_5_52	1_5	1
44	Food batchmakers	1_5_52	1_5	1
45	Food cooking machine operators	1_5_52	1_5	1
46	Cutting workers	1_5_52	1_5	1
47	Grounds maintenance workers	1_6_2	1_6	1
48	Brickmasons, blockmasons, and	1_6_2	1_6	1
49	Carpenters	1_6_2	1_6	1
50	Carpet, floor, and tile instal	1_6_2	1_6	1

	Title	Class_67	Class_9	Class_4
1	Cement masons, concrete finish	1_6_2	1_6	1
2	Construction laborers	1_6_2	1_6	1
3	Insulation workers	1_6_2	1_6	1
4	Pipelayers, plumbers, pipefitt	1_6_2	1_6	1
5	Reinforcing iron and rebar wor	1_6_2	1_6	1
6	Roofers	1_6_2	1_6	1
7	Sheet metal workers	1_6_2	1_6	1
8	Structural iron and steel work	1_6_2	1_6	1
9	Helpers, construction trades	1_6_2	1_6	1
10	Fence erectors	1_6_2	1_6	1
11	Hazardous materials removal wo	1_6_2	1_6	1
12	Highway maintenance workers	1_6_2	1_6	1
13	Rail-track laying and maintena	1_6_2	1_6	1
14	Miscellaneous construction and	1_6_2	1_6	1
15	Other extraction workers, incl	1_6_2	1_6	1
16	Service station attendants	1_6_2	1_6	1
17	Laborers and freight, stock, a	1_6_2	1_6	1
18	Pumping station operators	1_6_2	1_6	1
19	Farmers, ranchers, and other a	1_6_4	1_6	1
20	First-line supervisors/manager	1_6_4	1_6	1
21	Sailors and marine oilers, and	1_6_4	1_6	1
22	Ship and boat captains and ope	1_6_4	1_6	1
23	Paving, surfacing, and tamping	1_6_5	1_6	1
24	Construction equipment operato	1_6_5	1_6	1
25	Mining machine operators	1_6_5	1_6	1
26	Couriers and messengers	1_6_16	1_6	1
27	Postal service mail carriers	1_6_16	1_6	1
28	Coin, vending, and amusement m	1_6_16	1_6	1
29	Driver/sales workers and truck	1_6_16	1_6	1
30	Parking lot attendants	1_6_16	1_6	1
31	Industrial truck and tractor o	1_6_16	1_6	1
32	Chief executives	1_6_19	1_6	1
33	Computer and information syste	1_6_19	1_6	1
34	Industrial production managers	1_6_19	1_6	1
35	Purchasing managers	1_6_19	1_6	1
36	Transportation, storage, and d	1_6_19	1_6	1
37	General and operations manager	1_6_19	1_6	1
38	Construction managers	1_6_19	1_6	1
39	Engineering managers	1_6_19	1_6	1
40	Managers, all other	1_6_19	1_6	1
41	Production, planning, and expe	1_6_19	1_6	1
42	Cost estimators	1_6_19	1_6	1
43	Boilermakers	1_6_26	1_6	1
44	Electricians	1_6_26	1_6	1
45	Elevator installers and repair	1_6_26	1_6	1
46	Radio and telecommunications e	1_6_26	1_6	1
47	Electric motor, power tool, an	1_6_26	1_6	1
48	Security and fire alarm system	1_6_26	1_6	1
49	Control and valve installers a	1_6_26	1_6	1
50	Heating, air conditioning, and	1_6_26	1_6	1

	Title	Class_67	Class_9	Class_4
1	Maintenance and repair workers	1_6_26	1_6	1
2	Millwrights	1_6_26	1_6	1
3	Electrical power-line installers	1_6_26	1_6	1
4	Telecommunications line installers	1_6_26	1_6	1
5	Manufactured building and mobile home installers	1_6_26	1_6	1
6	Riggers	1_6_26	1_6	1
7	Helpers—installation, maintenance, and repair	1_6_26	1_6	1
8	Other installation, maintenance, and repair workers	1_6_26	1_6	1
9	Water and liquid waste treatment plant workers	1_6_26	1_6	1
10	Conservation scientists and foresters	1_6_27	1_6	1
11	Animal trainers	1_6_27	1_6	1
12	First-line supervisors of farm workers	1_6_27	1_6	1
13	Agricultural inspectors	1_6_27	1_6	1
14	Miscellaneous agricultural workers	1_6_27	1_6	1
15	Forest and conservation workers	1_6_27	1_6	1
16	Logging workers	1_6_27	1_6	1
17	Psychologists	1_6_38	1_6	1
18	Education administrators	1_6_38	1_6	1
19	Gaming managers	1_6_38	1_6	1
20	Medical and health services managers	1_6_38	1_6	1
21	Natural sciences managers	1_6_38	1_6	1
22	Property, real estate, and community association managers	1_6_38	1_6	1
23	Social and community service managers	1_6_38	1_6	1
24	First-line supervisors/managers of retail sales workers	1_6_38	1_6	1
25	Management analysts	1_6_38	1_6	1
26	Industrial and refractory machinery mechanics	1_6_39	1_6	1
27	Maintenance workers, machinery	1_6_39	1_6	1
28	Metal furnace and kiln operators	1_6_39	1_6	1
29	Power plant operators, distribution	1_6_39	1_6	1
30	Stationary engineers and boiler operators	1_6_39	1_6	1
31	Miscellaneous plant and system mechanics	1_6_39	1_6	1
32	Chemical processing machine setters and tenders	1_6_39	1_6	1
33	Furnace, kiln, oven, drier, and press operators	1_6_39	1_6	1
34	First-line supervisors/managers of construction trades workers	1_6_43	1_6	1
35	Drywall installers, ceiling and tile	1_6_43	1_6	1
36	Glaziers	1_6_43	1_6	1
37	Painters, construction and maintenance	1_6_43	1_6	1
38	Other transportation workers, equipment operators, and mechanics	1_6_43	1_6	1
39	First-line supervisors/managers of transportation workers	1_6_48	1_6	1
40	First-line supervisors/managers of construction trades workers	1_6_48	1_6	1
41	Derrick, rotary drill, and service unit operators	1_6_48	1_6	1
42	First-line supervisors/managers of construction trades workers	1_6_48	1_6	1
43	Crane and tower operators	1_6_48	1_6	1
44	Hoist and winch operators, and derrick, rotary drill, and service unit operators	1_6_48	1_6	1
45	Material moving workers, including laborers	1_6_48	1_6	1
46	Avionics technicians	1_6_54	1_6	1
47	Electronic equipment installer	1_6_54	1_6	1
48	Aircraft mechanics and service technicians	1_6_54	1_6	1
49	Automotive service technicians	1_6_54	1_6	1
50	Bus and truck mechanics and diesel engine mechanics	1_6_54	1_6	1

	Title	Class_67	Class_9	Class_4
1	Heavy vehicle and mobile equip	1_6_54	1_6	1
2	Small engine mechanics	1_6_54	1_6	1
3	Miscellaneous vehicle and mobi	1_6_54	1_6	1
4	Home appliance repairers	1_6_54	1_6	1
5	Locksmiths and safe repairers	1_6_54	1_6	1
6	Postsecondary teachers	1_6_63	1_6	1
7	Other teachers and instructors	1_6_63	1_6	1
8	Other education, training, and	1_6_63	1_6	1
9	Opticians, dispensing	1_6_63	1_6	1
10	Dispatchers	1_6_63	1_6	1
11	Animal control workers	1_6_22	1_6	1
12	Pest control workers	1_6_22	1_6	1
13	Refuse and recyclable material	1_6_22	1_6	1
14	Massage therapists	1_6_35	1_6	1
15	Crossing guards	1_6_35	1_6	1
16	Hosts and hostesses, restauran	1_6_35	1_6	1
17	Nonfarm animal caretakers	1_6_35	1_6	1
18	Embalmers and funeral attendan	1_6_35	1_6	1
19	Barbers	1_6_35	1_6	1
20	Hairdressers, hairstylists, an	1_6_35	1_6	1
21	Miscellaneous personal appeara	1_6_35	1_6	1
22	Meter readers, utilities	1_6_31	1_6	1
23	Plasterers and stucco masons	1_6_31	1_6	1
24	Automotive body and related re	1_6_31	1_6	1
25	Automotive glass installers an	1_6_31	1_6	1
26	Construction and building insp	1_6_65	1_6	1
27	Actuaries	1_7_1	1_7	1
28	Economists	1_7_1	1_7	1
29	Statistical assistants	1_7_1	1_7	1
30	Textile winding, twisting, and	1_7_8	1_7	1
31	Furniture finishers	1_7_8	1_7	1
32	Molders and molding machine se	1_7_13	1_7	1
33	Welding, soldering, and brazin	1_7_13	1_7	1
34	Plating and coating machine se	1_7_13	1_7	1
35	Sawing machine setters, operat	1_7_13	1_7	1
36	Inspectors, testers, sorters,	1_7_13	1_7	1
37	Helpers-production workers	1_7_13	1_7	1
38	Machine feeders and offbearers	1_7_13	1_7	1
39	Engineering technicians, excep	1_7_14	1_7	1
40	Chemical technicians	1_7_14	1_7	1
41	Broadcast and sound engineerin	1_7_14	1_7	1
42	Sales engineers	1_7_14	1_7	1
43	Computer, automated teller, an	1_7_14	1_7	1
44	Electrical and electronics rep	1_7_14	1_7	1
45	Electronic home entertainment	1_7_14	1_7	1
46	Extruding and drawing machine	1_7_23	1_7	1
47	Rolling machine setters, opera	1_7_23	1_7	1
48	Cutting, punching, and press m	1_7_23	1_7	1
49	Miscellaneous textile, apparel	1_7_23	1_7	1
50	Extruding, forming, pressing,	1_7_23	1_7	1

	Title	Class_67	Class_9	Class_4
1	Cementing and gluing machine o	1_7_23	1_7	1
2	Paper goods machine setters, o	1_7_23	1_7	1
3	Architects, except naval	1_7_28	1_7	1
4	Urban and regional planners	1_7_28	1_7	1
5	Surveyors, cartographers, and	1_7_44	1_7	1
6	Drafters	1_7_44	1_7	1
7	Surveying and mapping technici	1_7_44	1_7	1
8	Atmospheric and space scientis	1_7_44	1_7	1
9	Physical scientists, all other	1_7_44	1_7	1
10	Precision instrument and equip	1_7_46	1_7	1
11	Tailors, dressmakers, and sewe	1_7_46	1_7	1
12	Jewelers and precious stone an	1_7_46	1_7	1
13	Etchers and engravers	1_7_46	1_7	1
14	Archivists, curators, and muse	1_7_51	1_7	1
15	Artists and related workers	1_7_51	1_7	1
16	Designers	1_7_51	1_7	1
17	Prepress technicians and worke	1_7_51	1_7	1
18	Photographic process workers a	1_7_51	1_7	1
19	Writers and authors	1_7_55	1_7	1
20	Painting workers	1_7_55	1_7	1
21	Agricultural and food scientis	1_7_56	1_7	1
22	Biological scientists	1_7_56	1_7	1
23	Medical scientists and life sc	1_7_56	1_7	1
24	Environmental scientists and g	1_7_56	1_7	1
25	Aircraft structure, surfaces,	1_7_59	1_7	1
26	Electrical, electronics, and e	1_7_59	1_7	1
27	Engine and other machine assem	1_7_59	1_7	1
28	Structural metal fabricators a	1_7_59	1_7	1
29	Metalworkers and plastic worke	1_7_59	1_7	1
30	Crushing, grinding, polishing,	1_7_59	1_7	1
31	Medical, dental, and ophthalmi	1_7_59	1_7	1
32	Molders, shapers, and casters,	1_7_59	1_7	1
33	Tire builders	1_7_59	1_7	1
34	Production workers, including	1_7_59	1_7	1
35	Aerospace engineers	1_7_62	1_7	1
36	Computer hardware engineers	1_7_62	1_7	1
37	Electrical and electronic engi	1_7_62	1_7	1
38	Materials engineers	1_7_62	1_7	1
39	Mechanical engineers	1_7_62	1_7	1
40	Chemists and materials scienti	1_7_62	1_7	1
41	Chemical engineers	1_7_3	1_7	1
42	Civil engineers	1_7_3	1_7	1
43	Environmental engineers	1_7_3	1_7	1
44	Industrial engineers, includin	1_7_3	1_7	1
45	Marine engineers and naval arc	1_7_3	1_7	1
46	Petroleum engineers	1_7_3	1_7	1
47	Engineers, all other, includin	1_7_3	1_7	1
48	Operations research analysts	1_7_24	1_7	1
49	Mathematicians, statisticians	1_7_24	1_7	1
50	Astronomers and physicists	1_7_24	1_7	1

	Title	Class_67	Class_9	Class_4
1	Logisticians	1_7_24	1_7	1
2	Grinding, lapping, polishing,	1_7_29	1_7	1
3	Machinists	1_7_29	1_7	1
4	Tool grinders, filers, and sha	1_7_29	1_7	1
5	Textile cutting machine setter	1_7_29	1_7	1
6	Upholsterers	1_7_29	1_7	1
7	Cabinetmakers and bench carpen	1_7_29	1_7	1
8	Woodworking machine setters, o	1_7_29	1_7	1
9	Packaging and filling machine	1_7_29	1_7	1
10	Pressers, textile, garment, an	1_7_61	1_7	1
11	Sewing machine operators	1_7_61	1_7	1
12	Shoe and leather workers and r	1_7_61	1_7	1
13	Textile knitting and weaving m	1_7_61	1_7	1
14	Lathe and turning machine tool	1_7_15	1_7	1
15	Tool and die makers	1_7_15	1_7	1
16	Miscellaneous woodworkers, inc	1_7_15	1_7	1
17	Preschool and kindergarten tea	1_8_9	1_8	1
18	Elementary and middle school t	1_8_9	1_8	1
19	Secondary school teachers	1_8_9	1_8	1
20	Chiropractors	1_8_18	1_8	1
21	Dentists	1_8_18	1_8	1
22	Pharmacists	1_8_18	1_8	1
23	Veterinarians	1_8_18	1_8	1
24	Other healthcare practitioners	1_8_18	1_8	1
25	Athletes, coaches, umpires, an	1_8_30	1_8	1
26	Food service managers	1_8_30	1_8	1
27	Chefs and head cooks	1_8_30	1_8	1
28	First-line supervisors/manager	1_8_30	1_8	1
29	First-line supervisors/manager	1_8_30	1_8	1
30	Physician assistants	1_8_32	1_8	1
31	Radiation therapists	1_8_32	1_8	1
32	Recreational therapists	1_8_32	1_8	1
33	Respiratory therapists	1_8_32	1_8	1
34	Diagnostic related technologis	1_8_32	1_8	1
35	Dental assistants	1_8_32	1_8	1
36	Occupational therapists	1_8_58	1_8	1
37	Physical therapists	1_8_58	1_8	1
38	Occupational therapist assista	1_8_58	1_8	1
39	Physical therapist assistants	1_8_58	1_8	1
40	Child care workers	1_8_58	1_8	1
41	Recreation and fitness workers	1_8_58	1_8	1
42	Residential advisors	1_8_58	1_8	1
43	Clergy	1_8_60	1_8	1
44	Directors, religious activitie	1_8_60	1_8	1
45	Counselors	1_8_66	1_8	1
46	Social workers	1_8_66	1_8	1
47	Special education teachers	1_8_66	1_8	1
48	Licensed practical and license	1_8_66	1_8	1
49	Lawyers, Judges, magistrates,	1_9_45	1_9	1
50	Security guards and gaming sur	1_9_45	1_9	1

	Title	Class_67	Class_9	Class_4
1	First-line supervisors/manager	1_9_42	1_9	1
2	First-line supervisors/manager	1_9_42	1_9	1
3	Bailiffs, correctional officer	1_9_42	1_9	1
4	Detectives and criminal invest	1_9_42	1_9	1
5	Private detectives and investi	1_9_42	1_9	1
6	Flight attendants	2_3_47	2_3	2
7	Transportation inspectors	2_3_47	2_3	2
8	Air traffic controllers and ai	2_3_53	2_3	2
9	Locomotive engineers and opera	2_3_53	2_3	2
10	Railroad brake, signal, switch	2_3_53	2_3	2
11	Subway, streetcar, and other r	2_3_53	2_3	2
12	Aircraft pilots and flight eng	2_3_11	2_3	2
13	First-line supervisors/manager	2_3_40	2_3	2
14	Fire fighters	2_3_40	2_3	2
15	Fire inspectors	2_3_40	2_3	2
16	Dancers and choreographers	3_2_6	3_2	3
17	Technical writers	4_4_7	4_4	4
18	Proofreaders and copy markers	4_4_7	4_4	4
19	Graders and sorters, agricultu	4_4_21	4_4	4
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