**Front Line Workers—Industry Appendix**

**March 2020**

The following table includes 121 4-digit NAICS industries that relate to a list of “[essential critical infrastructure workers](https://www.cisa.gov/publication/guidance-essential-critical-infrastructure-workforce)” established by the Department of Homeland Security amidst the COVID-19 pandemic. Statistically, it is difficult to isolate specific workers who are considered essential in the tasks they carry out. This list attempts to capture a broad range of industries and activities that could conceivably be included in the parameters defined by DHS; however, this list is not necessarily comprehensive of all industries and activities. A wide range of occupations—from doctors and nurses to truck drivers and plumbers—are captured under each of these industries.

To provide added clarity, we have also distinguished 33 of these 121 NAICS industries as likely containing occupations that fall outside the DHS definitions. These industries are marked in grey and primarily include a variety of manufacturing activities.

2018 employment data for each industry is drawn from the Bureau of Labor Statistics Occupational Employment Statistics (OES) program. Industry definitions follow OES categorizations, including those for state and local governments.

**Table A1. List of essential infrastructure industries, 2018**

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| **DHS Category** | **NAICS Code** | **Industry** | **Employment** |
| Food and Agriculture | 115100 | Support Activities for Crop Production | 347,630 |
| Food and Agriculture | 115200 | Support Activities for Animal Production | 30,680 |
| Energy | 211100 | Oil and Gas Extraction | 141,290 |
| Energy | 212100 | Coal Mining | 50,750 |
| Energy | 213100 | Support Activities for Mining | 320,670 |
| Energy | 221100 | Electric Power Generation, Transmission and Distribution | 393,110 |
| Energy | 221200 | Natural Gas Distribution | 109,210 |
| Water and Wastewater | 221300 | Water, Sewage and Other Systems | 51,520 |
| Public Works | 237100 | Utility System Construction | 530,910 |
| Public Works | 237300 | Highway, Street, and Bridge Construction | 343,120 |
| Public Works | 237900 | Other Heavy and Civil Engineering Construction | 117,760 |
| Food and Agriculture | 311100 | Animal Food Manufacturing | 61,860 |
| Food and Agriculture | 311200 | Grain and Oilseed Milling | 59,380 |
| Food and Agriculture | 311300 | Sugar and Confectionery Product Manufacturing | 76,570 |
| Food and Agriculture | 311400 | Fruit and Vegetable Preserving and Specialty Food Manufacturing | 169,150 |
| Food and Agriculture | 311500 | Dairy Product Manufacturing | 145,530 |
| Food and Agriculture | 311600 | Animal Slaughtering and Processing | 517,920 |
| Food and Agriculture | 311700 | Seafood Product Preparation and Packaging | 31,300 |
| Food and Agriculture | 311800 | Bakeries and Tortilla Manufacturing | 312,350 |
| Food and Agriculture | 311900 | Other Food Manufacturing | 224,020 |
| Food and Agriculture | 312100 | Beverage Manufacturing | 259,700 |
| Chemical | 324100 | Petroleum and Coal Products Manufacturing | 112,360 |
| Chemical | 3250A1 | Chemical Manufacturing (3251, 3252, 3253, and 3259 only) | 362,660 |
| Chemical | 3250A2 | Chemical Manufacturing (3255 and 3256 only) | 170,690 |
| Chemical | 325400 | Pharmaceutical and Medicine Manufacturing | 294,250 |
| Critical Manufacturing | 326100 | Plastics Product Manufacturing | 586,900 |
| Critical Manufacturing | 326200 | Rubber Product Manufacturing | 134,890 |
| Critical Manufacturing | 327000 | Nonmetallic Mineral Product Manufacturing | 416,500 |
| Critical Manufacturing | 331100 | Iron and Steel Mills and Ferroalloy Manufacturing | 82,060 |
| Critical Manufacturing | 331200 | Steel Product Manufacturing from Purchased Steel | 56,690 |
| Critical Manufacturing | 331300 | Alumina and Aluminum Production and Processing | 57,150 |
| Critical Manufacturing | 331400 | Nonferrous Metal (except Aluminum) Production and Processing | 60,240 |
| Critical Manufacturing | 331500 | Foundries | 117,710 |
| Critical Manufacturing | 3320A1 | Fabricated Metal Product Manufacturing (3321, 3322, 3325, 3326, and 3329 only) | 474,250 |
| Critical Manufacturing | 3320A2 | Fabricated Metal Product Manufacturing (3323 and 3324 only) | 474,960 |
| Critical Manufacturing | 3330A1 | Machinery Manufacturing (3331, 3332, 3334, and 3339 only) | 727,210 |
| Critical Manufacturing | 332700 | Machine Shops; Turned Product; and Screw, Nut, and Bolt Manufacturing | 357,780 |
| Critical Manufacturing | 332800 | Coating, Engraving, Heat Treating, and Allied Activities | 138,960 |
| Critical Manufacturing | 333300 | Commercial and Service Industry Machinery Manufacturing | 90,900 |
| Critical Manufacturing | 333500 | Metalworking Machinery Manufacturing | 180,690 |
| Critical Manufacturing | 333600 | Engine, Turbine, and Power Transmission Equipment Manufacturing | 94,840 |
| Critical Manufacturing | 336100 | Motor Vehicle Manufacturing | 233,460 |
| Critical Manufacturing | 336200 | Motor Vehicle Body and Trailer Manufacturing | 161,800 |
| Critical Manufacturing | 336300 | Motor Vehicle Parts Manufacturing | 600,250 |
| Critical Manufacturing | 336400 | Aerospace Product and Parts Manufacturing | 485,790 |
| Critical Manufacturing | 336500 | Railroad Rolling Stock Manufacturing | 21,180 |
| Critical Manufacturing | 336600 | Ship and Boat Building | 135,910 |
| Critical Manufacturing | 336900 | Other Transportation Equipment Manufacturing | 32,960 |
| Healthcare/Public Health | 339100 | Medical Equipment and Supplies Manufacturing | 311,850 |
| Transportation and Logistics | 423100 | Motor Vehicle and Motor Vehicle Parts and Supplies Merchant Wholesalers | 345,080 |
| Critical Manufacturing | 423400 | Professional and Commercial Equipment and Supplies Merchant Wholesalers | 668,940 |
| Critical Manufacturing | 423800 | Machinery, Equipment, and Supplies Merchant Wholesalers | 689,770 |
| Transportation and Logistics | 4240A1 | Merchant Wholesalers, Nondurable Goods (4244 and 4248 only) | 982,010 |
| Transportation and Logistics | 4240A2 | Merchant Wholesalers, Nondurable Goods (4242 and 4246 only) | 374,540 |
| Food and Agriculture | 424500 | Farm Product Raw Material Merchant Wholesalers | 73,730 |
| Food and Agriculture | 4450A1 | Food and Beverage Stores (4451 and 4452 only) | 2,923,390 |
| Healthcare/Public Health | 446100 | Health and Personal Care Stores | 1,065,690 |
| Energy | 447100 | Gasoline Stations | 935,210 |
| Transportation and Logistics | 481100 | Scheduled Air Transportation | 453,700 |
| Transportation and Logistics | 481200 | Nonscheduled Air Transportation | 45,080 |
| Transportation and Logistics | 482100 | Rail Transportation | 232,580 |
| Transportation and Logistics | 483100 | Deep Sea, Coastal, and Great Lakes Water Transportation | 38,180 |
| Transportation and Logistics | 483200 | Inland Water Transportation | 25,990 |
| Transportation and Logistics | 484000 | Truck Transportation | 1,476,970 |
| Transportation and Logistics | 485100 | Urban Transit Systems | 48,520 |
| Transportation and Logistics | 485200 | Interurban and Rural Bus Transportation | 17,880 |
| Transportation and Logistics | 485300 | Taxi and Limousine Service | 77,840 |
| Transportation and Logistics | 485400 | School and Employee Bus Transportation | 216,230 |
| Transportation and Logistics | 485500 | Charter Bus Industry | 29,420 |
| Transportation and Logistics | 485900 | Other Transit and Ground Passenger Transportation | 105,230 |
| Transportation and Logistics | 486100 | Pipeline Transportation of Crude Oil | 10,780 |
| Transportation and Logistics | 486200 | Pipeline Transportation of Natural Gas | 28,890 |
| Transportation and Logistics | 486900 | Other Pipeline Transportation | 9,070 |
| Transportation and Logistics | 488100 | Support Activities for Air Transportation | 216,230 |
| Transportation and Logistics | 488200 | Support Activities for Rail Transportation | 33,850 |
| Transportation and Logistics | 488300 | Support Activities for Water Transportation | 92,760 |
| Transportation and Logistics | 488400 | Support Activities for Road Transportation | 101,950 |
| Transportation and Logistics | 488500 | Freight Transportation Arrangement | 222,530 |
| Transportation and Logistics | 488900 | Other Support Activities for Transportation | 31,460 |
| Transportation and Logistics | 491100 | Postal Service (federal government) | 633,930 |
| Transportation and Logistics | 492100 | Couriers and Express Delivery Services | 625,750 |
| Transportation and Logistics | 492200 | Local Messengers and Local Delivery | 78,250 |
| Transportation and Logistics | 493100 | Warehousing and Storage | 1,145,600 |
| Communications and Information Technology | 515100 | Radio and Television Broadcasting | 216,620 |
| Communications and Information Technology | 515200 | Cable and Other Subscription Programming | 53,860 |
| Communications and Information Technology | 517000 | Telecommunications | 754,940 |
| Communications and Information Technology | 518200 | Data Processing, Hosting, and Related Services | 318,750 |
| Communications and Information Technology | 519100 | Other Information Services | 295,760 |
| Financial Services | 5220A1 | Credit Intermediation and Related Activities (5221 And 5223 only) | 2,009,250 |
| Financial Services | 521100 | Monetary Authorities-Central Bank | 18,400 |
| Financial Services | 522200 | Nondepository Credit Intermediation | 615,820 |
| Financial Services | 523000 | Securities, Commodity Contracts, and Other Financial Investments and Related Activities | 930,940 |
| Financial Services | 524100 | Insurance Carriers | 1,169,800 |
| Financial Services | 524200 | Agencies, Brokerages, and Other Insurance Related Activities | 1,160,640 |
| Financial Services | 525100 | Insurance and Employee Benefit Funds | 5,500 |
| Financial Services | 525900 | Other Investment Pools and Funds | 8,530 |
| Defense Industrial Base | 561600 | Investigation and Security Services | 943,740 |
| Public Works | 562100 | Waste Collection | 179,570 |
| Public Works | 562200 | Waste Treatment and Disposal | 97,810 |
| Hazardous Materials | 562900 | Remediation and Other Waste Management Services | 149,980 |
| Healthcare/Public Health | 621100 | Offices of Physicians | 2,590,770 |
| Healthcare/Public Health | 621200 | Offices of Dentists | 946,260 |
| Healthcare/Public Health | 621300 | Offices of Other Health Practitioners | 909,610 |
| Healthcare/Public Health | 621400 | Outpatient Care Centers | 922,090 |
| Healthcare/Public Health | 621500 | Medical and Diagnostic Laboratories | 272,950 |
| Healthcare/Public Health | 621600 | Home Health Care Services | 1,449,540 |
| Healthcare/Public Health | 621900 | Other Ambulatory Health Care Services | 307,620 |
| Healthcare/Public Health | 622100 | General Medical and Surgical Hospitals | 5,546,980 |
| Healthcare/Public Health | 622200 | Psychiatric and Substance Abuse Hospitals | 241,220 |
| Healthcare/Public Health | 622300 | Specialty (except Psychiatric and Substance Abuse) Hospitals | 261,790 |
| Healthcare/Public Health | 623100 | Nursing Care Facilities (Skilled Nursing Facilities) | 1,610,650 |
| Healthcare/Public Health | 623200 | Residential Intellectual and Developmental Disability, Mental Health, and Substance Abuse Facilities | 639,470 |
| Healthcare/Public Health | 623300 | Continuing Care Retirement Communities and Assisted Living Facilities for the Elderly | 930,050 |
| Healthcare/Public Health | 623900 | Other Residential Care Facilities | 163,120 |
| Healthcare/Public Health | 624100 | Individual and Family Services | 2,430,640 |
| Healthcare/Public Health | 624200 | Community Food and Housing, and Emergency and Other Relief Services | 171,760 |
| Healthcare/Public Health | 624300 | Vocational Rehabilitation Services | 324,590 |
| Transportation and Logistics | 811100 | Automotive Repair and Maintenance | 928,340 |
| Public Works | 811400 | Personal and Household Goods Repair and Maintenance | 78,460 |
| Government Operations and Essential Functions | 999200 | State Government, excluding schools and hospitals (OES Designation) | 2,177,310 |
| Government Operations and Essential Functions | 999300 | Local Government, excluding schools and hospitals (OES Designation) | 5,480,790 |