**Supplementary Table S1 Definitions of job groups analysed**

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| **Job Group** |  | **Units in Classification of Occupations 1980** | |  | **Units in Standard Occupational Classification 1990** | |  | **Units in Standard Occupational Classification 2000** | |
|  |  |  |
| Marketing and Sales Managers combined |  | 005.1 | Marketing and sales managers and executives |  | 121 | Marketing and sales managers |  | 1132 | Marketing and sales managers |
|  |  | 005.2 | Advertising and PR executives |  | 122 | Purchasing managers |  | 1133 | Purchasing managers |
|  |  | 005.3 | Buyers (retail trade) |  | 123 | Advertising & PR Managers |  | 1134 | Advertising and public relations managers |
|  |  | 005.4 | Buyers and purchasing officers (not retail) |  | 700 | Buyers (retail trade) |  | 1142 | Customer care managers |
|  |  |  |  |  | 701 | Buyers and purchasing officers (not retail) |  | 1163 | Retail and wholesale managers |
|  |  |  |  |  |  |  |  | 3433 | Public relations officers |
|  |  |  |  |  |  |  |  | 3541 | Buyers and purchasing officers |
|  |  |  |  |  |  |  |  | 3543 | Marketing associate professionals |
|  |  |  |  |  |  |  |  | 3544 | Estate agents, auctioneers |
|  |  |  |  |  |  |  |  |  |  |
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| Vocational Trainers, Social Scientists etc. |  | 012.1 | Vocational and industrial trainers |  | 232 | Education officers, school inspectors |  | 2212 | Psychologists |
|  |  | 012.2 | Education officers, school inspectors |  | 235 | Special education teaching professionals |  | 2313 | Education officers, school inspectors |
|  |  | 012.3 | Social and behavioural scientists |  | 239 | Other teaching professionals nec |  | 2316 | Special needs education teaching professionals |
|  |  |  |  |  | 290 | Psychologists |  | 2319 | Teaching professionals nec |
|  |  |  |  |  | 291 | Other social and behavioural scientists |  | 2322 | Social science researchers |
|  |  |  |  |  | 391 | Vocational and industrial trainers |  | 3563 | Vocational and industrial trainers and instructors |
|  |  |  |  |  | 392 | Careers advisers and vocational guidance specialists |  | 3564 | Careers advisers and vocational guidance specialists |
|  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |
| Doctors |  | 015.1 | Medical Practitioners |  | 220 | Medical Practitioners |  | 2211 | Medical practitioners |
|  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |
| Other Health Professions combined |  | 017.3 | Ophthalmic and dispensing opticians |  | 222 | Ophthalmic opticians |  | 2214 | Ophthalmic opticians |
|  |  | 017.5 | Chiropodists |  | 344 | Chiropodists |  | 3215 | Chiropodists |
|  |  | 017.6 | Therapists nec |  | 345 | Dispensing opticians |  | 3216 | Dispensing opticians |
|  |  | 018.1 | Medical technicians, dental auxiliaries |  | 346 | Medical technicians, dental auxiliaries |  | 3218 | Medical and dental technicians |
|  |  | 107.2 | Dental technicians |  | 347 | Occupational and speech therapists, psychotherapists, therapists nec |  | 3222 | Occupational therapists |
|  |  |  |  |  | 348 | Environmental health officers |  | 3223 | Speech and language therapists |
|  |  |  |  |  | 349 | Other health associate professionals nec |  | 3229 | Therapists nec |
|  |  |  |  |  | 592 | Dental Technicians |  | 3568 | Environmental health officers |
|  |  |  |  |  | 643 | Dental nurses |  | 6113 | Dental nurses |
|  |  |  |  |  |  |  |  | 6131 | Veterinary nurses and assistants |
|  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |
| Professional athletes, sports officials |  | 023.1 | Professional sportsmen, sports officials |  | 387 | Professional athletes, sports officials |  | 3441 | Sports players |
|  |  |  |  |  |  |  |  | 3442 | Sports coaches, instructors and officials |
|  |  |  |  |  |  |  |  | 3443 | Fitness instructors |
|  |  |  |  |  |  |  |  | 3449 | Sports and fitness occupations nec |
|  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |
| Chemical Engineers and Scientists |  | 024.2 | Chemical scientists |  | 200 | Chemists |  | 2111 | Chemists |
|  |  | 028.1 | Chemical engineers |  | 215 | Chemical engineers |  | 2125 | Chemical engineers |
|  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |
| Other Professional Engineers |  | 025 | Civil, structural, municipal, mining and quarrying engineers |  | 210 | Civil, structural, municipal, mining and quarrying engineers |  | 1137 | Research and development managers |
|  |  | 026.1 | Mechanical and aeronautical engineers |  | 211 | Mechanical engineers |  | 1141 | Quality and assurance managers |
|  |  | 026.2 | Design and development engineers (mechanical) |  | 216 | Design and development engineers |  | 2121 | Civil engineers |
|  |  | 028.2 | Production engineers |  | 217 | Process and production engineers |  | 2122 | Mechanical engineers |
|  |  | 028.3 | Planning and quality control engineers |  | 218 | Planning and quality control engineers |  | 2126 | Design and development engineers |
|  |  | 028.4 | Engineers nec |  | 219 | Other engineers and technologists nec |  | 2127 | Production and process engineers |
|  |  | 028.6 | Technologists nec |  |  |  |  | 2128 | Planning and quality control engineers |
|  |  |  |  |  |  |  |  | 2129 | Engineering professionals nec |
|  |  |  |  |  |  |  |  |  |  |
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| Draughtspersons |  | 029 | Draughtsmen |  | 310 | Draughtspersons |  | 3122 | Draughtspersons |
|  |  |  |  |  |  |  |  |  |  |
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| Laboratory Technicians |  | 030.1 | Laboratory technicians |  | 300 | Laboratory technicians |  | 3111 | Laboratory technicians |
|  |  | 030.2 | Engineering technicians, technician engineers |  | 301 | Engineering technicians |  | 3113 | Engineering technicians |
|  |  | 136.8 | Foremen - laboratory assistants |  |  |  |  |  |  |
|  |  | 138.1 | Laboratory assistants |  |  |  |  |  |  |
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|  |  |  |  |  |  |  |  |  |  |
| Aircraft Flight Deck Officers |  | 032.1 | Aircraft flight deck officers |  | 331 | Aircraft flight deck officers |  | 3512 | Aircraft pilots and flight engineers |
|  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |
| Seafarers |  | 032.3 | Deck, engineering and radio officers and pilots, ship |  | 332 | Ship and hovercraft officers |  | 3513 | Ship and hovercraft officers |
|  |  | 147 | Foremen - ships, lighters and other vessels |  | 880 | Seafarers (merchant navy); barge, lighter and boat operatives |  | 8217 | Seafarers (merchant navy); barge, lighter and boat operatives |
|  |  | 148 | Deck, engine-room hands, bargemen, lightermen, boatmen |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |
| Other Technicians |  | 033.1 | Architectural and town planning technicians |  | 303 | Architectural and town planning technicians |  | 3114 | Building and civil engineering technicians |
|  |  | 033.2 | Building and civil engineering technicians |  | 304 | Building and civil engineering technicians |  | 3115 | Quality assurance technicians |
|  |  | 033.3 | Technical and related workers nec |  | 309 | Other scientific technicians nec |  | 3119 | Science and engineering technicians nec |
|  |  |  |  |  | 390 | Information officers |  | 3121 | Architectural and town planning technicians |
|  |  |  |  |  | 396 | Occupational hygienists and safety officers (health and safety) |  | 3539 | Business and related associate professionals nec |
|  |  |  |  |  | 399 | Other associate professional and technical occupations nec |  | 3551 | Conservation and environmental protection officers |
|  |  |  |  |  |  |  |  | 3567 | Occupational hygienists and safety officers (health and safety) |
|  |  |  |  |  |  |  |  |  |  |
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| Production and maintenance managers |  | 034 | Production, works and maintenance managers, works foremen |  | 110 | Production, works and maintenance managers |  | 1121 | Production, works and maintenance managers |
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| Managers in Construction |  | 035.1 | Managers in building and contracting |  | 111 | Managers in building and contracting |  | 1122 | Managers in construction |
|  |  | 035.2 | Clerks of works |  | 112 | Clerks of works |  |  |  |
|  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |
| Managers in Transport, Mining and Energy Industries |  | 036.1 | Managers in mining and public utilities |  | 113 | Managers in mining and energy industries |  | 1123 | Managers in mining and energy |
|  |  | 036.2 | Transport managers |  | 140 | Transport managers |  | 1161 | Transport and distribution managers |
|  |  | 036.3 | Stores controllers |  | 141 | Stores controllers |  | 1162 | Storage and warehouse managers |
|  |  | 036.4 | Managers in warehousing and materials handling nec |  | 142 | Managers in warehousing and other materials handling |  |  |  |
|  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |
| Butchers |  | 038.2 | Butchers (managers and proprietors) |  | 178 | Managers and proprietors of butchers and fishmongers |  | 5431 | Butchers, meat cutters |
|  |  | 090.2 | Foremen - butchers, meat cutters |  | 581 | Butchers, meat cutters |  |  |  |
|  |  | 092.1 | Butchers, meat cutters |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |
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| Publicans and Bar staff |  | 039.1 | Hotel and residential club managers |  | 175 | Publicans, innkeepers and club stewards |  | 1224 | Publicans and managers of licensed premises |
|  |  | 039.2 | Publicans |  | 622 | Bar staff |  | 9225 | Bar staff |
|  |  | 039.4 | Club stewards |  |  |  |  |  |  |
|  |  | 063.3 | Supervisors of barmen, barmaids |  |  |  |  |  |  |
|  |  | 065.2 | Barmen, barmaids |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |
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| Farming and Fishing combined |  | 040 | Farmers, horticulturalists, farm managers |  | 160 | Farm owners and managers, horticulturists |  | 1211 | Farm managers |
|  |  | 076.1 | Farm foremen |  | 169 | Other managers in farming, horticulture, forestry and fishing nec |  | 1219 | Managers in animal husbandry, forestry and fishing nec |
|  |  | 076.2 | Horticultural foremen |  | 594 | Gardeners, groundsmen/ groundswomen |  | 3552 | Countryside and park rangers |
|  |  | 076.3 | Foremen gardeners and groundsmen |  | 595 | Horticultural trades |  | 5111 | Farmers |
|  |  | 076.4 | Agricultural machinery foremen |  | 900 | Farm workers |  | 5112 | Horticultural trades |
|  |  | 076.6 | Other foremen in farming and related |  | 901 | Agricultural machinery drivers and operatives |  | 5113 | Gardeners and groundsmen/ groundswomen |
|  |  | 077 | Farm workers |  | 902 | All other occupations in farming and related |  | 5119 | Agricultural and fishing trades nec |
|  |  | 078.1 | Horticultural workers |  | 903 | Fishing and related workers |  | 6139 | Animal care occupations nec |
|  |  | 078.2 | Gardeners, groundsmen |  |  |  |  | 8223 | Agricultural machinery drivers |
|  |  | 079 | Agricultural machinery drivers, operators |  |  |  |  | 9111 | Farm workers |
|  |  | 081 | Supervisors, mates - fishing |  |  |  |  | 9119 | Fishing and agriculture related occupations nec |
|  |  | 082 | Fishermen |  |  |  |  |  |  |
|  |  | 083 | All other in farming and related |  |  |  |  |  |  |
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| Armed Forces |  | 041 | Officers, UK armed forces |  | 150 | Officers in UK armed forces |  | 1171 | Officers in armed forces |
|  |  | 042 | Officers, foreign and Commonwealth armed forces |  | 151 | Officers in foreign and Commonwealth armed forces |  | 3311 | NCOs and other ranks |
|  |  | 058 | NCOs and other ranks, UK armed forces |  | 600 | NCOs and other ranks, UK armed forces |  |  |  |
|  |  | 059 | NCOs and other ranks, foreign and Commonwealth armed forces |  | 601 | NCOs and other ranks, foreign and Commonwealth armed forces |  |  |  |
|  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |
| Police |  | 043.2 | Police officers (inspectors and above) |  | 152 | Police officers (inspector and above) |  | 1172 | Police officers (inspectors and above) |
|  |  | 060.1 | Police sergeants |  | 610 | Police officers (sergeant and below) |  | 3312 | Police officers (sergeant and below) |
|  |  | 061.1 | Policemen (below sergeant) |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |
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| Fire Service Personnel |  | 043.3 | Fire service officers |  | 153 | Fire service officers (station officer and above) |  | 3313 | Fire service officers (leading fire officer and below) |
|  |  | 060.2 | Fire service supervisors |  | 611 | Fire service officers (leading fire officer and below) |  |  |  |
|  |  | 061.2 | Firemen |  |  |  |  |  |  |
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|  |  |  |  |  |  |  |  |  |  |
| Sales Representatives |  | 057.1 | Importers, exporters, commodity brokers |  | 702 | Importers and exporters |  | 3536 | Importers, exporters |
|  |  | 057.4 | Credit agents, collector salesmen |  | 703 | Air, commodity and ship brokers |  | 3542 | Sales representatives |
|  |  | 057.5 | Sales representatives |  | 710 | Technical and wholesale sales representatives |  | 7121 | Collector salespersons and credit agents |
|  |  | 057.6 | Sales representatives (property and services), other agents |  | 719 | Other sales representatives nec |  |  |  |
|  |  |  |  |  | 730 | Collector salespersons and credit agents |  |  |  |
|  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |
| Other Service Personnel combined |  | 044.1 | Proprietors and managers, service flats, holiday flats, caravan sites, etc |  | 630 | Travel and flight attendants |  | 6121 | Nursery nurses |
|  |  | 067.1 | Housekeepers (non-domestic) |  | 670 | Domestic housekeepers and related occupations |  | 6122 | Childminders and related occupations |
|  |  | 067.2 | Supervisors of other domestic and school helpers |  | 671 | Housekeepers (non-domestic) |  | 6123 | Playgroup leaders/assistants |
|  |  | 067.3 | Supervisors of travel stewards and attendants |  | 672 | Caretakers |  | 6124 | Educational assistants |
|  |  | 067.5 | Supervisors of hotel porters |  | 699 | Other personal and protective service occupations nec |  | 6211 | Sports and leisure assistants |
|  |  | 068.1 | Domestic housekeepers |  | 941 | Messengers, couriers |  | 6213 | Travel and tour guides |
|  |  | 068.2 | Nursery nurses |  | 951 | Hotel porters |  | 6214 | Air travel assistants |
|  |  | 068.3 | Other domestic and school helpers |  | 955 | Lift and car park attendants |  | 6219 | Leisure and travel service occupations nec |
|  |  | 069.1 | Travel stewards and attendants |  | 956 | Window cleaners |  | 6231 | Housekeepers and related occupations |
|  |  | 069.3 | Hotel porters |  | 957 | Road sweepers |  | 6232 | Caretakers |
|  |  | 071.1 | Supervisors of caretakers |  | 958 | Cleaners, domestics |  | 6292 | Pest control officers |
|  |  | 071.2 | Supervisors of cleaners, window cleaners, chimney sweeps, road sweepers |  | 959 | Other occupations in sales and services nec |  | 7212 | Customer care occupations |
|  |  | 071.4 | Supervisors of lift and car park attendants |  | 650 | Nursery nurses |  | 9222 | Hotel porters |
|  |  | 072.1 | Caretakers |  | 651 | Playgroup leaders |  | 9226 | Leisure and theme park attendants |
|  |  | 072.2 | Cleaners, window cleaners, chimney sweeps, road sweepers |  | 652 | Educational assistants |  | 9229 | Elementary personal services occupations nec |
|  |  | 075.2 | Lift and car park attendants |  | 659 | Other childcare and related occupations nec |  | 9231 | Window cleaners |
|  |  | 153.1 | Bus conductors |  | 875 | Bus conductors |  | 9232 | Road sweepers |
|  |  | 153.2 | Drivers' mates |  | 934 | Drivers' mates |  | 9233 | Cleaners, domestics |
|  |  |  |  |  |  |  |  | 9239 | Elementary cleaning occupations nec |
|  |  |  |  |  |  |  |  | 9244 | School mid-day assistants |
|  |  |  |  |  |  |  |  | 9245 | Car park attendants |
|  |  |  |  |  |  |  |  | 9259 | Elementary sales occupations nec |
|  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |
| Rail travel assistants combined |  | 071.3 | Supervisors of railway stationmen |  | 631 | Railway Station Staff |  | 6215 | Rail travel assistants |
|  |  | 075.1 | Railway stationmen |  | 881 | Railway Inspectors, Supervisors & Guards |  |  |  |
|  |  | 149.1 | Foremen - railway guards |  |  |  |  |  |  |
|  |  | 149.4 | Foremen - other foremen rail transport |  |  |  |  |  |  |
|  |  | 150.2 | Railway guards |  |  |  |  |  |  |
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|  |  |  |  |  |  |  |  |  |  |
| Forestry Workers |  | 076.5 | Forestry foremen |  | 904 | Forestry Workers |  | 9112 | Forestry workers |
|  |  | 080 | Forestry workers |  |  |  |  |  |  |
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|  |  |  |  |  |  |  |  |  |  |
| Leather and related trades combined |  | 084.1 | Foremen - tannery production workers |  | 555 | Shoe Repairers, Leather Cutters & Sewers etc. |  | 5413 | Leather and related trades |
|  |  | 084.2 | Foremen - shoe repairers |  | 810 | Tannery Production Operatives |  |  |  |
|  |  | 084.3 | Foremen - leather cutters and sewers, footwear lasters, makers, finishers |  |  |  |  |  |  |
|  |  | 084.4 | Foremen - other making and repairing - leather |  |  |  |  |  |  |
|  |  | 085.1 | Tannery production workers |  |  |  |  |  |  |
|  |  | 085.2 | Shoe repairers |  |  |  |  |  |  |
|  |  | 085.3 | Leather cutters and sewers, footwear lasters, makers, finishers |  |  |  |  |  |  |
|  |  | 107.7 | Other making and repairing - leather |  |  |  |  |  |  |
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| Weavers and knitters combined |  | 086.4 | Foremen - warp preparers |  | 550 | Weavers |  | 5411 | Weavers and knitters |
|  |  | 086.5 | Foremen - weavers |  | 551 | Knitters |  |  |  |
|  |  | 086.6 | Foremen - knitters |  |  |  |  |  |  |
|  |  | 087.4 | Warp preparers |  |  |  |  |  |  |
|  |  | 087.5 | Weavers |  |  |  |  |  |  |
|  |  | 087.6 | Knitters |  |  |  |  |  |  |
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|  |  |  |  |  |  |  |  |  |  |
| Other Textile Processing Operatives combined |  | 086.1 | Foremen - preparatory fibre processors |  | 811 | Preparatory Fibre Processors |  | 8113 | Textile process operatives |
|  |  | 086.2 | Foremen - spinners, doublers, twisters |  | 812 | Spinners, doublers, twisters |  |  |  |
|  |  | 086.3 | Foremen - winders, reelers |  | 813 | Winders, reelers |  |  |  |
|  |  | 086.8 | Foremen - menders, darners |  | 814 | Other Textile Processing Operatives |  |  |  |
|  |  | 086.9 | Foremen - other material processing - textiles |  |  |  |  |  |  |
|  |  | 087.1 | Preparatory fibre processors |  |  |  |  |  |  |
|  |  | 087.2 | Spinners, doublers, twisters |  |  |  |  |  |  |
|  |  | 087.3 | Winders, reelers |  |  |  |  |  |  |
|  |  | 087.8 | Menders, darners |  |  |  |  |  |  |
|  |  | 098.4 | Other material processing - textiles |  |  |  |  |  |  |
|  |  | 136.2 | Foremen inspectors, viewers, examiners – textiles |  |  |  |  |  |  |
|  |  | 138.2 | Inspectors, viewers, examiners - textiles |  |  |  |  |  |  |
|  |  | 159.1 | Foremen - labourers and unskilled workers nec - textiles (not textile goods) |  |  |  |  |  |  |
|  |  | 160.1 | Labourers and unskilled workers nec - textiles (not textile goods) |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |
| Chemical workers combined |  | 086.7 | Foremen - bleachers, dyers, finishers |  | 552 | Warp Preparers, Bleachers, Dyers & Finishers |  | 8114 | Chemical and related process operatives |
|  |  | 087.7 | Bleachers, dyers, finishers |  | 820 | Chemical, Gas & Petroleum Process Plant Operatives |  | 8119 | Process operatives nec |
|  |  | 088 | Foremen - chemical processing |  | 826 | Synthetic Fibre Makers |  |  |  |
|  |  | 089 | Chemical, gas and petroleum process plant operators |  | 829 | Other Chemicals, Paper, Plastics & Related Process Operatives nec |  |  |  |
|  |  | 095.5 | Foremen - calender and extruding machine operators, moulders (plastics) |  |  |  |  |  |  |
|  |  | 095.6 | Foremen - man-made fibre makers |  |  |  |  |  |  |
|  |  | 097.2 | Calender and extruding machine operators, moulders (plastics) |  |  |  |  |  |  |
|  |  | 098.1 | Man-made fibre makers |  |  |  |  |  |  |
|  |  | 159.2 | Foremen - labourers and unskilled workers nec - chemicals and allied trades |  |  |  |  |  |  |
|  |  | 160.2 | Labourers and unskilled workers nec - chemicals and allied trades |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |
| Bakers |  | 090.1 | Foremen - bakers, flour confectioners |  | 580 | Bakers, flour confectioners |  | 5432 | Bakers, flour confectioners |
|  |  | 091 | Bakers, flour confectioners |  | 800 | Bakery and confectionery process operatives |  |  |  |
|  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |
| Other Food, Drink & Tobacco Process Operatives nec combined |  | 090.4 | Foremen - brewery and vinery process workers |  | 801 | Brewery & vinery process operatives |  | 8111 | Food, drink and tobacco process operatives |
|  |  | 090.5 | Foremen - other material processing - bakery and confectionery workers |  | 802 | Tobacco Process Operatives |  |  |  |
|  |  | 090.6 | Foremen - other material processing - food and drink nec |  | 809 | Other Food, Drink & Tobacco Process Operatives nec |  |  |  |
|  |  | 098.2 | Brewery and vinery process workers |  |  |  |  |  |  |
|  |  | 098.5 | Other material processing - bakery and confectionery workers |  |  |  |  |  |  |
|  |  | 098.6 | Other material processing - tobacco |  |  |  |  |  |  |
|  |  | 098.7 | Other material processing - food and drink nec |  |  |  |  |  |  |
|  |  | 136.3 | Foremen inspectors, viewers, examiners - food |  |  |  |  |  |  |
|  |  | 138.3 | Inspectors, viewers, examiners - food |  |  |  |  |  |  |
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| Paper and wood machine operatives combined |  | 093.1 | Foremen - paper, paperboard and leatherboard workers |  | 572 | Case & Box Makers |  | 8121 | Paper and wood machine operatives |
|  |  | 093.3 | Foreman - cutting and slitting machine operators (paper and paper products making) |  | 821 | Paper, Wood & Related Process Plant Operatives |  |  |  |
|  |  | 093.4 | Foremen - other material processing - wood and paper |  | 822 | Cutting & Slitting Machine Operatives (paper products etc) |  |  |  |
|  |  | 093.5 | Foremen - other making and repairing, paper goods and printing |  | 897 | Woodworking Machine Operatives |  |  |  |
|  |  | 094.1 | Paper, paperboard and leatherboard workers |  |  |  |  |  |  |
|  |  | 094.3 | Cutting and slitting machine operators (paper and paper products making) |  |  |  |  |  |  |
|  |  | 098.8 | Other material processing - wood and paper |  |  |  |  |  |  |
|  |  | 104.3 | Foremen - case and box makers |  |  |  |  |  |  |
|  |  | 104.5 | Foremen - sawyers, veneer cutters, woodworking machinists |  |  |  |  |  |  |
|  |  | 105.3 | Case and box makers |  |  |  |  |  |  |
|  |  | 106 | Sawyers, veneer cutters, woodworking machinists |  |  |  |  |  |  |
|  |  | 107.9 | Other making and repairing, paper goods and printing |  |  |  |  |  |  |
|  |  | 134.4 | Foremen assemblers - paper production, processing and printing |  |  |  |  |  |  |
|  |  | 136.9 | Foremen - inspectors, sorters in paper production, processing and printing |  |  |  |  |  |  |
|  |  | 138.7 | Inspectors, sorters in paper production, processing and printing |  |  |  |  |  |  |
|  |  | 138.8 | Assemblers - paper production, processing and printing |  |  |  |  |  |  |
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| Glass and ceramics workers combined |  | 095.1 | Foremen - glass and ceramics furnacemen, kilnsetters |  | 590 | Glass product & ceramic makers |  | 5491 | Glass and ceramics makers, decorators and finishers |
|  |  | 095.2 | Foremen - glass formers and shapers, finishers, decorators |  | 591 | Glass product & ceramic finishers & decorators |  | 8112 | Glass and ceramics process operatives |
|  |  | 095.3 | Foremen - casters and other pottery makers |  | 823 | Glass & ceramics furnace operatives, kilnsetters |  |  |  |
|  |  | 095.8 | Foremen - other making and repairing - glass and ceramics |  |  |  |  |  |  |
|  |  | 096.1 | Glass and ceramics furnacemen, kilnsetters |  |  |  |  |  |  |
|  |  | 096.2 | Glass formers and shapers, finishers, decorators |  |  |  |  |  |  |
|  |  | 096.3 | Casters and other pottery makers |  |  |  |  |  |  |
|  |  | 107.5 | Other making and repairing - glass and ceramics |  |  |  |  |  |  |
|  |  | 132.1 | Foremen - pottery decorators |  |  |  |  |  |  |
|  |  | 133.1 | Pottery decorators |  |  |  |  |  |  |
|  |  | 159.4 | Foremen - labourers and unskilled workers nec - glass and ceramics |  |  |  |  |  |  |
|  |  | 160.4 | Labourers and unskilled workers nec - glass and ceramics |  |  |  |  |  |  |
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| Coal miners combined |  | 095.7 | Foremen - washers, screeners and crushers in mines and quarries |  | 597 | Face Trained Coalmining Workers, Shotfirers & Deputies |  | 8122 | Coal mine operatives |
|  |  | 098.3 | Washers, screeners and crushers in mines and quarries |  | 890 | Washers, screeners and crushers in mines and quarries |  |  |  |
|  |  | 159.7 | Foremen - labourers and unskilled workers nec - coal mines |  | 910 | Coal mine labourers |  |  |  |
|  |  | 160.7 | Labourers and unskilled workers nec - coal mines |  |  |  |  |  |  |
|  |  | 144 | Foremen/deputies - coalmining |  |  |  |  |  |  |
|  |  | 145 | Face-trained coalmining workers |  |  |  |  |  |  |
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| Upholsterers |  | 101.4 | Foremen - coach trimmers, upholsterers, mattress makers |  | 554 | Coach trimmers, upholsterers, mattress makers |  | 5412 | Upholsterers |
|  |  | 103 | Coach trimmers, upholsterers, mattress makers |  |  |  |  |  |  |
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| Carpenters & Joiners |  | 104.1 | Foremen - carpenters, joiners |  | 570 | Carpenters & Joiners |  | 5315 | Carpenters and joiners |
|  |  | 105.1 | Carpenters, joiners |  |  |  |  |  |  |
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| Cabinet Makers combined |  | 104.2 | Foremen - cabinet makers |  | 571 | Cabinet makers |  | 5492 | Furniture makers, other craft woodworkers |
|  |  | 104.6 | Foremen - other making and repairing, wood |  | 579 | Other woodworking trades nec |  |  |  |
|  |  | 105.2 | Cabinet makers |  | 920 | Mates to woodworking trades workers |  |  |  |
|  |  | 107.1 | Labourers and mates to woodworking craftsmen |  |  |  |  |  |  |
|  |  | 107.6 | Other making and repairing - wood |  |  |  |  |  |  |
|  |  | 136.6 | Foremen inspectors, viewers, examiners - woodwork |  |  |  |  |  |  |
|  |  | 138.6 | Inspectors, viewers, examiners - woodwork |  |  |  |  |  |  |
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| Smiths & Forge Workers |  | 108.3 | Foremen - smiths, forgemen |  | 530 | Smiths & Forge Workers |  | 5211 | Smiths and forge workers |
|  |  | 109.3 | Smiths, forgemen |  |  |  |  |  |  |
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| Moulders, Core Makers, Die Casters |  | 108.5 | Foremen - moulders, coremakers, die casters |  | 531 | Moulders, Core Makers, Die Casters |  | 5212 | Moulders, core makers, die casters |
|  |  | 110.2 | Moulders, coremakers, die casters |  |  |  |  |  |  |
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| Electroplaters combined |  | 108.6 | Foremen - electroplaters |  | 834 | Electroplaters, Galvanisers, Colour Coaters |  | 8118 | Electroplaters |
|  |  | 108.8 | Foremen - galvanisers, tin platers, dip platers |  |  |  |  |  |  |
|  |  | 110.3 | Electroplaters |  |  |  |  |  |  |
|  |  | 131.2 | Galvanisers, tin platers, dip platers |  |  |  |  |  |  |
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|  |  |  |  |  |  |  |  |  |  |
| Other Metal Manufacturers combined |  | 108.1 | Foremen - furnace operating occupations (metal) |  | 830 | Furnace Operatives (metal) |  | 8117 | Metal making and treating process operatives |
|  |  | 108.2 | Foremen - rollermen |  | 831 | Metal Drawers |  | 9131 | Labourers in foundries |
|  |  | 108.4 | Foremen - metal drawers |  | 832 | Rollers |  |  |  |
|  |  | 108.7 | Foremen - annealers, hardeners, temperers (metal) |  | 833 | Annealers, Hardeners, Temperers (metal) |  |  |  |
|  |  | 108.9 | Foremen - metal making and treating workers nec |  | 839 | Other metal making and treating process operatives nec |  |  |  |
|  |  | 109.1 | Furnace operating occupations (metal) |  | 911 | Labourers in foundries |  |  |  |
|  |  | 109.2 | Rollermen |  |  |  |  |  |  |
|  |  | 110.1 | Metal drawers |  |  |  |  |  |  |
|  |  | 110.4 | Annealers, hardeners, temperers (metal) |  |  |  |  |  |  |
|  |  | 131.3 | Metal making and treating workers nec |  |  |  |  |  |  |
|  |  | 159.5 | Foremen - labourers and unskilled workers nec - foundries in engineering and allied trades |  |  |  |  |  |  |
|  |  | 160.5 | Labourers and unskilled workers nec - foundries in engineering and allied trades |  |  |  |  |  |  |
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| Metal machining setters and setter-operators combined |  | 111.1 | Foremen - press and machine tool setters |  | 510 | Centre, Capstan, Turret & Other Lathe Setters & Setter-Operators |  | 5221 | Metal machining setters and setter-operators |
|  |  | 111.2 | Foremen - centre lathe turners |  | 511 | Boring and drilling machine setters and setter-operators |  |  |  |
|  |  | 111.3 | Foremen - machine tool setter operators |  | 512 | Grinding machine setters and setter-operators |  |  |  |
|  |  | 112.1 | Press and machine tool setters |  | 513 | Milling machine setters and setter-operators |  |  |  |
|  |  | 112.2 | Centre lathe turners |  | 514 | Press Setters & Setter-Operators |  |  |  |
|  |  | 112.3 | Machine tool setter operators |  | 519 | Other machine tool setters and set-operators nec (including CNC setter-operators) |  |  |  |
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|  |  |  |  |  |  |  |  |  |  |
| Metal working machine operatives combined |  | 111.4 | Foremen - machine tool operators |  | 840 | Machine Tool Operatives (including CNC machine tool operatives) |  | 8125 | Metal working machine operatives |
|  |  | 111.5 | Foremen - press stamping and automatic machine operators |  | 841 | Press Stamping & Automatic Machine Operatives |  |  |  |
|  |  | 111.6 | Foremen - metal polishers |  | 842 | Metal Polishers |  |  |  |
|  |  | 111.7 | Foremen - fettlers, dressers |  | 843 | Metal dressing operatives |  |  |  |
|  |  | 111.8 | Foremen - shot blasters |  | 844 | Shot Blasters |  |  |  |
|  |  | 112.4 | Machine tool operators |  |  |  |  |  |  |
|  |  | 113.1 | Press stamping and automatic machine operators |  |  |  |  |  |  |
|  |  | 113.2 | Metal polishers |  |  |  |  |  |  |
|  |  | 113.3 | Fettlers, dressers |  |  |  |  |  |  |
|  |  | 131.8 | Shot blasters |  |  |  |  |  |  |
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| Production fitters |  | 114.4 | Foremen - metal working production fitters and fitter/machinists |  | 516 | Metal Working Production & Maintenance Fitters |  | 5223 | Metal working production and maintenance fitters |
|  |  | 117 | Metal working production fitters and fitter/machinists |  |  |  |  |  |  |
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| Motor Mechanics, Auto Engineers combined |  | 114.5 | Foremen - motor mechanics, auto engineers |  | 540 | Motor Mechanics, Auto Engineers (including road patrol engineers) |  | 5231 | Motor mechanics, auto engineers |
|  |  | 114.6 | Foremen - maintenance fitters (aircraft engines) |  | 544 | Tyre & exhaust fitters |  | 8135 | Tyre, exhaust and windscreen fitters |
|  |  | 118.1 | Motor mechanics, auto engineers |  |  |  |  |  |  |
|  |  | 118.2 | Maintenance fitters (aircraft engines) |  |  |  |  |  |  |
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| Electricians, Electrical Maintenance Fitters combined |  | 120.1 | Foremen - production fitters (electrical, electronic) |  | 520 | Production Fitters (electrical/electronic) |  | 5241 | Electricians, electrical fitters |
|  |  | 120.2 | Foremen - electricians, electrical maintenance fitters |  | 521 | Electricians, Electrical Maintenance Fitters |  |  |  |
|  |  | 121.1 | Production fitters (electrical, electronic) |  |  |  |  |  |  |
|  |  | 121.2 | Electricians, electrical maintenance fitters |  |  |  |  |  |  |
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| Cable Jointers, Lines Repairers |  | 120.5 | Foremen - cable jointers, linesmen |  | 524 | Cable Jointers, Lines Repairers |  | 5243 | Lines repairers and cable jointers |
|  |  | 122.2 | Cable jointers, linesmen |  |  |  |  |  |  |
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| Radio, TV & Video Engineers |  | 120.6 | Foremen - radio and TV mechanics |  | 525 | Radio, TV & Video Engineers |  | 5244 | TV, video and audio engineers |
|  |  | 123.1 | Radio and TV mechanics |  |  |  |  |  |  |
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| Electrical Engineers (not professional) combined |  | 114.7 | Foremen - office machinery mechanics |  | 522 | Electrical Engineers (not professional) |  | 5249 | Electrical/electronics engineers nec |
|  |  | 119 | Office machinery mechanics |  | 598 | Office Machinery Mechanics |  |  |  |
|  |  | 121.3 | Electrical engineers (so described) |  |  |  |  |  |  |
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| Plumbers, Heating & Ventilating Engineers & Related Trades |  | 124.1 | Foremen - plumbers, heating and ventilating fitters, gas fitters |  | 532 | Plumbers, Heating & Ventilating Engineers & Related Trades |  | 5216 | Pipe fitters |
|  |  | 125 | Plumbers, heating and ventilating fitters, gas fitters |  |  |  |  | 5314 | Plumbers, heating and ventilating engineers |
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| Sheet Metal Workers |  | 124.2 | Foremen - sheet metal workers |  | 533 | Sheet Metal Workers |  | 5213 | Sheet metal workers |
|  |  | 126.1 | Sheet metal workers |  |  |  |  |  |  |
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| Metal Plate Workers, Shipwrights, Riveters |  | 124.3 | Foremen - metal plate workers, shipwrights, riveters |  | 534 | Metal Plate Workers, Shipwrights, Riveters |  | 5214 | Metal plate workers, shipwrights, riveters |
|  |  | 126.2 | Metal plate workers, shipwrights, riveters |  |  |  |  |  |  |
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| Steel Erectors |  | 124.4 | Foremen - steel erectors, benders, fixers |  | 535 | Steel Erectors |  | 5311 | Steel erectors |
|  |  | 127.1 | Steel erectors, benders, fixers |  | 536 | Barbenders, steel fixers |  |  |  |
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| Scaffolders, Riggers combined |  | 124.5 | Foremen - scaffolders, stagers |  | 505 | Scaffolders, Stagers, Steeplejacks, Riggers |  | 8141 | Scaffolders, stagers, riggers |
|  |  | 124.7 | Foremen - riggers |  |  |  |  |  |  |
|  |  | 127.2 | Scaffolders, stagers |  |  |  |  |  |  |
|  |  | 131.5 | Riggers |  |  |  |  |  |  |
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| Welding Trades |  | 124.6 | Foremen - welders |  | 537 | Welding Trades |  | 5215 | Welding trades |
|  |  | 128 | Welders |  |  |  |  |  |  |
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| Coach & Vehicle Body Builders and repairers combined |  | 129.3 | Foremen - coach and vehicle body builders |  | 541 | Coach & Vehicle Body Builders |  | 5232 | Vehicle body builders and repairers |
|  |  | 131.3 | Coach and vehicle body builders |  | 542 | Vehicle body repairers, panel beaters |  |  |  |
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| Painters & Decorators |  | 132.4 | Foremen - painters and decorators nec, french polishers |  | 507 | Painters & Decorators |  | 5323 | Painters and decorators |
|  |  | 133.4 | Painters and decorators nec, french polishers |  |  |  |  |  |  |
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| Assemblers/ Lineworkers (electrical/ electronic goods) |  | 134.1 | Foremen assemblers - electrical, electronic |  | 850 | Assemblers/Lineworkers (electrical/electronic goods) |  | 8131 | Assemblers (electrical products) |
|  |  | 135.1 | Assemblers - electrical, electronic |  |  |  |  |  |  |
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| Packers, Sorters and Testers combined |  | 134.2 | Foremen assemblers - instruments |  | 859 | Other Assemblers/ Lineworkers nec |  | 8133 | Routine inspectors and testers |
|  |  | 135.2 | Instrument assemblers |  | 860 | Inspectors, viewers and testers (metal and electrical goods) |  | 8134 | Weighers, graders, sorters |
|  |  | 136.7 | Foremen - packers, bottlers, canners, fillers |  | 861 | Inspectors, viewers, testers and examiners (other manufactured goods) |  | 8138 | Routine laboratory testers |
|  |  | 136.10 | Foremen - weighers |  | 862 | Packers, bottlers, canners, fillers |  | 8139 | Assemblers and routine operatives nec |
|  |  | 136.11 | Foremen - graders, sorters, selectors nec |  | 863 | Weighers, graders, sorters |  | 9134 | Packers, bottlers, canners, fillers |
|  |  | 137.2 | Packers, bottlers, canners, fillers |  | 864 | Routine laboratory testers |  |  |  |
|  |  | 138.10 | Weighers |  | 869 | Other routine process operatives nec |  |  |  |
|  |  | 138.11 | Graders, sorters, selectors nec |  |  |  |  |  |  |
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| Bricklayers, Masons combined |  | 139.1 | Foremen - bricklayers, tile setters |  | 500 | Bricklayers, Masons |  | 5312 | Bricklayers, masons |
|  |  | 139.2 | Foremen - masons, stone cutters |  |  |  |  |  |  |
|  |  | 140.1 | Bricklayers, tile setters |  |  |  |  |  |  |
|  |  | 140.2 | Masons, stone cutters |  |  |  |  |  |  |
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| Roofers and Glaziers |  | 139.4 | Foremen - roofers, glaziers |  | 501 | Roofers, slaters, tilers, sheeters, cladders |  | 5313 | Roofers, roof tilers and slaters |
|  |  | 140.4 | Roofers, glaziers |  | 503 | Glaziers |  | 5316 | Glaziers, window fabricators and fitters |
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| Rail Construction & Maintenance Workers |  | 139.6 | Foremen - railway lengthmen |  | 922 | Rail Construction & Maintenance Workers |  | 8143 | Rail construction and maintenance operatives |
|  |  | 141.1 | Railway lengthmen |  |  |  |  |  |  |
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| Road Construction Workers and Paviors |  | 139.7 | Foremen - road surfacers, concreters |  | 923 | Road construction and maintenance workers |  | 8142 | Road construction operatives |
|  |  | 139.8 | Foremen - roadmen |  | 924 | Paviors, kerb layers |  |  |  |
|  |  | 139.9 | Foremen - paviors, kerb layers |  |  |  |  |  |  |
|  |  | 141.2 | Road surfacers, concreters |  |  |  |  |  |  |
|  |  | 141.3 | Roadmen |  |  |  |  |  |  |
|  |  | 141.4 | Paviors, kerb layers |  |  |  |  |  |  |
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| Other Construction Workers combined |  | 139.5 | Foremen - handymen, general building workers |  | 504 | Builders, Building Contractors |  | 5319 | Construction trades nec |
|  |  | 139.11 | Foremen - mains and service layers, pipe jointers |  | 509 | Other construction trades nec |  | 8149 | Construction operatives nec |
|  |  | 139.12 | Foremen - construction workers nec |  | 895 | Mains & Service Pipe Layers, Pipe Jointers |  | 9121 | Labourers in building and woodworking trades |
|  |  | 140.5 | Handymen, general building workers |  | 896 | Construction and related operatives |  | 9129 | Labourers in other construction trades nec |
|  |  | 140.6 | Builders (so described) |  | 921 | Mates to building trades workers |  |  |  |
|  |  | 142.2 | Mains and service layers, pipe jointers |  | 929 | Other building and civil engineering labourers nec |  |  |  |
|  |  | 143.1 | Craftsmen's mates |  |  |  |  |  |  |
|  |  | 143.2 | Building and civil engineering labourers |  |  |  |  |  |  |
|  |  | 146.2 | Construction workers nec |  |  |  |  |  |  |
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| Mine (excluding coal) & Quarry Workers |  | 146.1 | Miners (not coal), quarrymen, well drillers |  | 898 | Mine (excluding coal) & Quarry Workers |  | 8123 | Quarry workers and related operatives |
|  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |
| Rail transport operatives combined |  | 149.2 | Foremen - signalmen and crossing keepers, railway |  | 883 | Railway signal operatives & crossing keepers |  | 8216 | Rail transport operatives |
|  |  | 149.3 | Foremen - shunters, pointsmen |  | 884 | Shunters & points operatives |  |  |  |
|  |  | 150.3 | Signalmen and crossing keepers, railway |  |  |  |  |  |  |
|  |  | 150.4 | Shunters, pointsmen |  |  |  |  |  |  |
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| Railway engine drivers |  | 150.1 | Drivers, motormen, secondmen, railway engines |  | 882 | Railway engine drivers & assistants |  | 3514 | Train drivers |
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|  |  |  |  |  |  |  |  |  |  |
| Lorry drivers |  | 151.2 | Foremen - drivers of road goods vehicles |  | 872 | Drivers of road goods vehicles |  | 8211 | Heavy goods vehicle drivers |
|  |  | 152.2 | Drivers of road goods vehicles |  |  |  |  | 8212 | Van drivers |
|  |  |  |  |  |  |  |  |  |  |
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| Mechanical Plant Drivers & Operatives (earth moving & civil engineering) |  | 154.1 | Foremen - mechanical plant drivers, operators (earth moving and civil engineering) |  | 885 | Mechanical Plant Drivers & Operatives (earth moving & civil engineering) |  | 8229 | Mobile machine drivers and operatives nec |
|  |  | 155.1 | Mechanical plant drivers, operators (earth moving and civil engineering) |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |
| Crane Drivers |  | 154.2 | Foremen - crane drivers, operators |  | 886 | Crane Drivers |  | 8221 | Crane drivers |
|  |  | 155.2 | Crane drivers, operators |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |
| Fork Lift & Mechanical Truck Drivers |  | 154.3 | Foremen - fork lift, mechanical truck drivers |  | 887 | Fork Lift & Mechanical Truck Drivers |  | 8222 | Fork-lift truck drivers |
|  |  | 155.3 | Fork lift, mechanical truck drivers |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |
| Storekeepers & warehousemen/women |  | 156.1 | Foremen - storekeepers, warehousemen |  | 441 | Storekeepers & warehousemen/women |  | 9149 | Other goods handling and storage occupations nec |
|  |  | 157.1 | Storekeepers, warehousemen |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |
| Dockers, Goods Porters and Slingers combined |  | 154.4 | Foremen - slingers |  | 930 | Stevedores, dockers |  | 9141 | Stevedores, dockers and slingers |
|  |  | 156.2 | Foremen - stevedores, dockers |  | 931 | Goods porters |  |  |  |
|  |  | 156.3 | Foremen - goods porters |  | 932 | Slingers |  |  |  |
|  |  | 157.2 | Stevedores, dockers |  |  |  |  |  |  |
|  |  | 157.3 | Goods porters |  |  |  |  |  |  |
|  |  | 158.1 | Slingers |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |
| Electrical, Energy, Boiler & Related Plant Operatives & Attendants combined |  | 120.3 | Foremen - plant operators and attendants nec |  | 893 | Electrical, Energy, Boiler & Related Plant Operatives & Attendants |  | 8124 | Energy plant operatives |
|  |  | 121.4 | Plant operators and attendants nec |  |  |  |  |  |  |
|  |  | 159.3 | Foremen - labourers and unskilled workers nec - coke ovens and gas works |  |  |  |  |  |  |
|  |  | 159.9 | Foremen - boiler operators |  |  |  |  |  |  |
|  |  | 160.3 | Labourers and unskilled workers nec - coke ovens and gas works |  |  |  |  |  |  |
|  |  | 161.1 | Boiler operators |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |
| Other transport, plant and machine operatives combined |  | 129.4 | Foremen - oilers, greasers, lubricators |  | 870 | Bus inspectors |  | 8129 | Plant and machine operatives nec |
|  |  | 131.4 | Oilers, greasers, lubricators |  | 871 | Road transport depot inspectors and related occupations |  | 8218 | Air transport operatives |
|  |  | 151.1 | Bus inspectors |  | 889 | Other transport and machine operatives nec |  | 8219 | Transport operatives nec |
|  |  | 151.3 | Foremen - other foremen road transport |  | 894 | Oilers, Greasers, Lubricators |  |  |  |
|  |  |  |  |  | 899 | Other plant and machine operatives nec |  |  |  |

**Supplementary Table S2 Cause of death categories analysed**

| **Cause of death** |  | **Codes in ICD9** | **Codes in ICD10** |
| --- | --- | --- | --- |
| Tuberculosis |  | 010-018, 137 | A15-A19, B90, M90.0 |
| Viral hepatitis |  | 070 | B15-B19 |
| Cancer of the oral cavity |  | 141,143,144,145 | C01-C06 |
| Cancer of the pharynx (specified) |  | 146-148 | C09-C13 |
| Cancer of the liver |  | 155 | C22 |
| Cancer of the peritoneum (including peritoneal mesothelioma) |  | 158.8, 158.9 | C48.1-C48.2, C48.8, C45.1 |
| Cancer of the nose and nasal sinuses and middle ear |  | 160 | C30-C31 |
| Cancer of the larynx |  | 161 | C32 |
| Cancer of the pleura (including pleural mesothelioma) |  | 163 | C38.4, C38.8, C45.0 |
| Mesothelioma at other sites combined and unspecified |  |  | C45.2, C45.7, C45.9 |
| Other cancer of skin (excluding melanoma) |  | 173 | C44 |
| Cancer of the scrotum |  | 187.7 | C63.2 |
| Urothelial cancer |  | 188, 189.1-189.8 | C65-C68 |
| Other alcohol-related diseases(excluding alcohol poisoning) |  | 303, 305.0, 425.5, 535.3, 571.0-571.3, E860.0, E860.1 | E24.4, F10, G31.2, G62.1 G72.1, I42.6, K29.2, K70, K85.2, K86.0 |
| Combined pneumonia (excluding bronchopneumonia) |  | 481, 482, 483, 486 | J13, J14, J15, J16, J18.1, J18.2, J18.8-J18.9 |
| Chronic bronchitis and emphysema |  | 491, 492, 496 | J41-J44 |
| Asthma |  | 493 | J45-J46 |
| Farmer's lung disease |  | 495.0 | J67.0 |
| Other and unspecified allergic pneumonitis |  | 495.1, 495.3-495.9 | J67.1, J67.3-J67.9 |
| Coal worker's pneumoconiosis |  | 500 | J60 |
| Asbestosis |  | 501 | J61 |
| Silicosis |  | 502 | J62 |
| Other pneumoconiosis combined |  | 503, 505 | J63, J64, J65 |
| Byssinosis |  | 504 | J66.0 |
| Cirrhosis (not specified as biliary) |  | 571.5 | K74.0-K74.2, K74.6, K71.7 |
| Pancreatitis |  | 577.0, 577.1 | K85.0-K85.1, K85.3, K85.8, K85.9, K86.1 |
| Railway accidents combined |  | E800-E807 | V05, V81 |
| Motor vehicle traffic accidents combined |  | E810-E819, E846-E848 | V01-V04, V06-V09, V20-V29, V30-V49, V50-V69, V70-V79, V87-V89 |
| Off-road motor vehicle traffic accidents combined |  | E820-E825 | V83, V84, V85, V86 |
| Animal transport accidents rider/passenger |  | E827-E828 | V80 |
| Water transport accidents |  | E830-E838 | V90-V94 |
| Air transport accidents |  | E840-E845 | V95-V97 |
| Pesticide poisoning |  | E863 | X48 |
| Poisoning by other gases and vapours combined |  | E867, E868.0, E868.1, E868.2, E868.3, E868.8, E869 | X47 |
| Fall from ladder or scaffolding |  | E881 | W11-W12 |
| Fall from building |  | E882 | W13 |
| Fall into hole |  | E883 | W17 |
| Other fall |  | E884 | W00, W02-W09, W14-W16, W18 |
| Slipping and tripping |  | E885 | W01 |
| Fall unspecified |  | E888 | W19 |
| Injured by fire |  | E890-E899 | X00-X09 |
| Heat injury |  | E900 | W92, X30 |
| Injury by animals and plants combined |  | E905-E906 | X20-X29, W53-W59 |
| Injury by lightning |  | E907 | X33 |
| Injury by falling**,** thrown or projected object |  | E916 | W20 |
| Injury by being caught between objects |  | E918 | W23 |
| Injury by machinery |  | E919 | W24, W30-W31 |
| Injury by cutting and piercing instruments or objects |  | E920 | W25-W29 |
| Injury by explosion of pressure vessel |  | E921 | W35-W38 |
| Injury by firearms |  | E922 | W32-W34 |
| Injury by explosive material |  | E923 | W39-W40 |
| Injury by hot substances |  | E924 | X10-X19 |
| Injury by electric current |  | E925 | W85-W87 |
| Homicide |  | E960-E969 | X85-X99, Y00-Y09 |
| War |  | E990-E999 | Y36 |

**Supplementary Table S3 Combinations of job group and hazard in earlier analysis of occupational mortality that were excluded from current analysis of trends**

|  |  |  |
| --- | --- | --- |
| **Job group** | **Hazard** | **Reason for exclusion from analysis of trends** |
|  |  |  |
| Fettlers and dressers | Silicosis  Other pneumoconiosis  Tuberculosis | Because of a change in classification for 2001-10, fettlers and dressers had to be included in a much larger merged grouping of metal working machine operatives, which had a deficit in aggregated mortality from the listed causes in each of the three study periods |
|  |  |  |
| Synthetic fibre makers | Asthma | Because of a change in classification for 2001-10, synthetic fibre makers had to be included in a much larger merged grouping of chemical workers, which had a deficit in mortality from asthma in each of the three study periods |
|  |  |  |
| Other textile processing operatives combined | Asbestos related disorders | Deficit of aggregated mortality from asbestos-related disorders in each of the three study periods |
|  |  |  |
| Other metal manufacturers combined | Asbestos related disorders | Deficit of aggregated mortality from asbestos-related disorders in each of the three study periods |
|  |  |  |
| Coal miners  Mine (excluding coal) and quarry workers  Railway engine drivers  Shunters and points operatives | Other vehicle accidents | Because of changes in ICD 10, this cause of death had to be included in a much larger merged category, motor vehicle traffic accidents |
|  |  |  |
| Galvanisers and tin platers | Combined pneumonia (excluding bronchopneumonia) | Because of a change in classification for 2001-10, galvanisers and tin platers had to be included in a merged grouping with electroplaters, which had a deficit in mortality from combined pneumonia in the last two of the three study periods, and only a minimal excess (4 observed vs. 2.7 expected) in the first period |
|  |  |  |
| Welding trades | Poisoning by other gases | Because of changes in ICD 10, this cause of death had to be included in a larger merged category of poisoning by gases and vapours for which there was a deficit of deaths in the first and third period, and in the aggregate across all three periods |
|  |  |  |
| Metal polishers  Fettlers and dressers  Shotblasters | Chronic bronchitis and emphysema | Because of a change in classification for 2001-10, metal polishers, fettlers and dressers, and shotblasters had to be included in a larger merged grouping of metal working machine operatives, which had an overall deficit in mortality from chronic bronchitis and emphysema in each of the three study periods |
| Seafarers  Armed forces  Police | Non-recreational drowning | Because of changes in ICD 10, this cause of death had to be included in a larger merged category, for which data were not available for the first two periods |

|  |  |
| --- | --- |
| **Supplementary Table S4** | **Excess mortality from diseases caused by occupational exposure to dusts and fumes, men aged 20-74 yearsa, England and Wales, 1979-2010** |

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Coal worker's pneumoconiosis** | |  | | | | |  | | | | |  | | | | |
|  | | 1979-80, 1982-1990 | | | | | 1991-2000 | | | | | 2001-2010 | | | | |
| **Job group** | | **Deaths Obs** | **Deaths Exp** | **PMR** | **L CL** | **U CL** | **Deaths Obs** | **Deaths Exp** | **PMR** | **L CL** | **U CL** | **Deaths Obs** | **Deaths Exp** | **PMR** | **L CL** | **U CL** |
| Managers in Transport, Mining and Energy Industries | | 9 | 1.0 | 901 | 412 | 1710 | 2 | 0.3 | 777 | 93 | 2803 | 1 | 0.1 | 1613 | 48 | 8984 |
| Coal miners combined | | 824 | 93.5 | 881 | 822 | 943 | 451 | 52.3 | 862 | 784 | 945 | 167 | 14.1 | 1186 | 1013 | 1381 |
| Sub-total | | 833 | 94.5 |  |  |  | 453 | 52.6 |  |  |  | 168 | 14.1 |  |  |  |
| All other occupations | | 109 |  |  |  |  | 45 |  |  |  |  | 42 |  |  |  |  |
| Total | | 942 |  |  |  |  | 498 |  |  |  |  | 210 |  |  |  |  |
|  | |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| **Asbestosis** | |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  | | 1979-80, 1982-1990 | | | | | 1991-2000 | | | | | 2001-2010 | | | | |
| **Job group** | | **Deaths Obs** | **Deaths Exp** | **PMR** | **L CL** | **U CL** | **Deaths Obs** | **Deaths Exp** | **PMR** | **L CL** | **U CL** | **Deaths Obs** | **Deaths Exp** | **PMR** | **L CL** | **U CL** |
| Vocational Trainers, Social Scientists etc. | | 0 | 0.1 | 0 | 0 | 3127 | 2 | 0.3 | 738 | 89 | 2663 | 0 | 0.8 | 0 | 0 | 480 |
| Chemical Engineers and Scientists | | 0 | 0.0 | 0 | 0 | 7851 | 0 | 0.1 | 0 | 0 | 3321 | 1 | 0.4 | 225 | 7 | 1255 |
| Other Professional Engineers | | 0 | 0.3 | 0 | 0 | 1377 | 2 | 0.7 | 273 | 33 | 986 | 5 | 3.1 | 159 | 52 | 372 |
| Draughtspersons | | 0 | 0.4 | 0 | 0 | 918 | 1 | 0.4 | 231 | 7 | 1289 | 0 | 0.9 | 0 | 0 | 394 |
| Laboratory Technicians | | 1 | 0.4 | 262 | 8 | 1458 | 1 | 0.2 | 403 | 12 | 2243 | 0 | 0.5 | 0 | 0 | 734 |
| Other Technicians | | 0 | 0.1 | 0 | 0 | 2562 | 1 | 0.5 | 210 | 6 | 1171 | 4 | 1.3 | 305 | 83 | 782 |
| Production and maintenance managers | | 3 | 0.9 | 326 | 67 | 954 | 1 | 1.7 | 58 | 2 | 322 | 5 | 3.7 | 136 | 44 | 316 |
| Managers in Construction | | 1 | 0.3 | 362 | 11 | 2018 | 0 | 0.5 | 0 | 0 | 815 | 2 | 1.5 | 134 | 16 | 484 |
| Fire Service Personnel | | 1 | 0.1 | 685 | 21 | 3815 | 0 | 0.2 | 0 | 0 | 1854 | 0 | 0.4 | 0 | 0 | 859 |
| Chemical workers combined | | 6 | 5.6 | 108 | 39 | 234 | 4 | 3.9 | 103 | 28 | 263 | 2 | 2.8 | 72 | 9 | 262 |
| Upholsterers | | 0 | 0.5 | 0 | 0 | 695 | 0 | 0.5 | 0 | 0 | 733 | 0 | 0.8 | 0 | 0 | 472 |
| Carpenters & Joiners | | 9 | 5.2 | 174 | 80 | 330 | 15 | 6.8 | 219 | 123 | 362 | 30 | 11.1 | 269 | 182 | 384 |
| Cabinet makers combined | | 0 | 0.8 | 0 | 0 | 458 | 0 | 0.9 | 0 | 0 | 422 | 1 | 1.4 | 72 | 2 | 402 |
| Smiths & Forge Workers | | 0 | 0.6 | 0 | 0 | 668 | 1 | 0.6 | 172 | 5 | 956 | 1 | 0.6 | 164 | 5 | 914 |
| Metal working machine operatives combined | | 11 | 18.3 | 60 | 30 | 108 | 11 | 13.8 | 80 | 40 | 142 | 9 | 12.5 | 72 | 33 | 137 |
| Production fitters | | 17 | 10.0 | 169 | 99 | 271 | 18 | 12.9 | 140 | 83 | 221 | 16 | 11.6 | 138 | 79 | 224 |
| Electricians electrical maintenance fitters combined | | 1 | 4.0 | 25 | 1 | 138 | 11 | 5.8 | 191 | 95 | 341 | 17 | 10.4 | 164 | 95 | 262 |
| Electrical engineers (not professional) combined | | 1 | 1.2 | 81 | 2 | 449 | 0 | 2.2 | 0 | 0 | 169 | 2 | 1.2 | 174 | 21 | 627 |
| Plumbers, Heating & Ventilating Engineers & Related Trades | | 13 | 3.2 | 411 | 219 | 703 | 14 | 4.6 | 304 | 166 | 509 | 30 | 6.9 | 434 | 293 | 620 |
| Sheet Metal Workers | | 4 | 1.5 | 266 | 72 | 680 | 6 | 1.6 | 368 | 135 | 801 | 1 | 1.5 | 65 | 2 | 364 |
| Metal Plate Workers, Shipwrights, Riveters | | 3 | 1.1 | 262 | 54 | 765 | 8 | 1.5 | 541 | 233 | 1065 | 15 | 1.6 | 937 | 525 | 1545 |
| Steel Erectors | | 2 | 0.7 | 284 | 34 | 1027 | 2 | 1.2 | 168 | 20 | 607 | 2 | 1.0 | 209 | 25 | 755 |
| Scaffolders, Riggers combined | | 0 | 0.9 | 0 | 0 | 421 | 7 | 1.2 | 568 | 228 | 1171 | 4 | 1.3 | 319 | 87 | 817 |
| Welding Trades | | 3 | 2.3 | 130 | 27 | 379 | 9 | 3.3 | 276 | 126 | 523 | 10 | 5.0 | 199 | 95 | 366 |
| Coach and vehicle body builders and repairers combined | | 5 | 0.4 | 1139 | 369 | 2658 | 1 | 0.7 | 137 | 4 | 765 | 0 | 0.9 | 0 | 0 | 405 |
| Other construction workers combined | | 71 | 11.2 | 635 | 496 | 801 | 58 | 17.4 | 333 | 253 | 431 | 70 | 31.1 | 225 | 175 | 284 |
| Dockers goods porters and slingers combined | | 4 | 2.7 | 147 | 40 | 375 | 8 | 5.4 | 148 | 64 | 292 | 4 | 2.3 | 176 | 48 | 449 |
| Electrical, Energy, Boiler Operatives & Attendants combined | | 5 | 2.7 | 182 | 59 | 425 | 7 | 1.9 | 363 | 146 | 748 | 9 | 1.1 | 791 | 362 | 1502 |
| Sub-total | | 161 | 75.7 |  |  |  | 188 | 90.8 |  |  |  | 240 | 117.7 |  |  |  |
| All other occupations | | 120 |  |  |  |  | 143 |  |  |  |  | 167 |  |  |  |  |
| Total | | 281 |  |  |  |  | 331 |  |  |  |  | 407 |  |  |  |  |
|  | |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| **Silicosis** | |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  | | 1979-80, 1982-1990 | | | | | 1991-2000 | | | | | 2001-2010 | | | | |
| **Job group** | | **Deaths Obs** | **Deaths Exp** | **PMR** | **L CL** | **U CL** | **Deaths Obs** | **Deaths Exp** | **PMR** | **L CL** | **U CL** | **Deaths Obs** | **Deaths Exp** | **PMR** | **L CL** | **U CL** |
| Chemical workers combined | | 2 | 3.9 | 51 | 6 | 184 | 4 | 0.9 | 452 | 123 | 1157 | 2 | 0.3 | 790 | 95 | 2853 |
| Glass and ceramic workers combined | | 4 | 0.7 | 574 | 156 | 1469 | 4 | 0.2 | 2327 | 634 | 5958 | 4 | 0.2 | 2163 | 589 | 5538 |
| Coal miners combined | | 26 | 12.5 | 209 | 136 | 306 | 3 | 3.0 | 101 | 21 | 295 | 3 | 1.2 | 245 | 51 | 717 |
| Moulders, Core Makers, Die Casters | | 3 | 0.3 | 872 | 180 | 2549 | 0 | 0.1 | 0 | 0 | 3942 | 0 | 0.1 | 0 | 0 | 5773 |
| Other metal manufacturers combined | | 7 | 1.4 | 518 | 208 | 1067 | 3 | 0.4 | 847 | 175 | 2475 | 1 | 0.3 | 342 | 10 | 1905 |
| Bricklayers, Masons combined | | 13 | 1.3 | 1027 | 547 | 1756 | 3 | 0.4 | 709 | 147 | 2073 | 6 | 0.4 | 1366 | 501 | 2973 |
| Mine (excluding coal) & Quarry Workers | | 58 | 0.7 | 8123 | 6168 | 10501 | 13 | 0.2 | 7715 | 4107 | 13193 | 5 | 0.1 | 8019 | 2598 | 18715 |
| Sub-total | | 113 | 20.8 |  |  |  | 30 | 5.1 |  |  |  | 21 | 2.5 |  |  |  |
| All other occupations | | 50 |  |  |  |  | 20 |  |  |  |  | 18 |  |  |  |  |
| Total | | 163 |  |  |  |  | 50 |  |  |  |  | 39 |  |  |  |  |
|  | |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| **Other pneumoconiosis combined** | |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  | | 1979-80, 1982-1990 | | | | | 1991-2000 | | | | | 2001-2010 | | | | |
| **Job group** | | **Deaths Obs** | **Deaths Exp** | **PMR** | **L CL** | **U CL** | **Deaths Obs** | **Deaths Exp** | **PMR** | **L CL** | **U CL** | **Deaths Obs** | **Deaths Exp** | **PMR** | **L CL** | **U CL** |
| Glass and ceramic workers combined | | 11 | 1.5 | 730 | 365 | 1307 | 1 | 0.2 | 412 | 12 | 2297 | 0 | 0.2 | 0 | 0 | 1675 |
| Coal miners combined | | 14 | 12.7 | 110 | 60 | 185 | 38 | 6.8 | 556 | 393 | 763 | 12 | 1.9 | 637 | 329 | 1112 |
| Moulders, Core Makers, Die Casters | | 9 | 0.7 | 1240 | 567 | 2353 | 1 | 0.1 | 787 | 24 | 4381 | 0 | 0.1 | 0 | 0 | 7176 |
| Other metal manufacturers combined | | 12 | 2.7 | 444 | 230 | 776 | 8 | 0.7 | 1073 | 463 | 2113 | 2 | 0.4 | 563 | 68 | 2033 |
| Bricklayers, Masons combined | | 10 | 2.7 | 368 | 177 | 677 | 1 | 0.6 | 167 | 5 | 930 | 0 | 0.5 | 0 | 0 | 694 |
| Mine (excluding coal) & Quarry Workers | | 7 | 0.7 | 992 | 398 | 2042 | 3 | 0.4 | 818 | 169 | 2392 | 2 | 0.1 | 1814 | 218 | 6550 |
| Sub-total | | 63 | 21.1 |  |  |  | 52 | 8.9 |  |  |  | 16 | 3.2 |  |  |  |
| All other occupations | | 181 |  |  |  |  | 46 |  |  |  |  | 33 |  |  |  |  |
| Total | | 244 |  |  |  |  | 98 |  |  |  |  | 49 |  |  |  |  |
|  | |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| **Byssinosis** | |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  | | 1979-80, 1982-1990 | | | | | 1991-2000 | | | | | 2001-2010 | | | | |
| **Job group** | | **Deaths Obs** | **Deaths Exp** | **PMR** | **L CL** | **U CL** | **Deaths Obs** | **Deaths Exp** | **PMR** | **L CL** | **U CL** | **Deaths Obs** | **Deaths Exp** | **PMR** | **L CL** | **U CL** |
| Weavers and knitters combined | | 1 | 0.0 | 2222 | 67 | 12378 | 0 | 0.0 |  |  |  | 1 | 0.0 | 33913 | 1017 | 188897 |
| Other textile processing operatives combined | | 21 | 0.7 | 3187 | 1973 | 4871 | 1 | 0.0 | 12062 | 362 | 67188 | 0 | 0.0 | 0 | 0 | 83692 |
| Sub-total | | 22 | 0.7 |  |  |  | 1 | 0.0 |  |  |  | 1 | 0.0 |  |  |  |
| All other occupations | | 17 |  |  |  |  | 5 |  |  |  |  | 0 |  |  |  |  |
| Total | | 39 |  |  |  |  | 6 |  |  |  |  | 1 |  |  |  |  |
|  | |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| **Farmer's lung disease** | |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  | | 1979-80, 1982-1990 | | | | | 1991-2000 | | | | | 2001-2010 | | | | |
| **Job group** | | **Deaths Obs** | **Deaths Exp** | **PMR** | **L CL** | **U CL** | **Deaths Obs** | **Deaths Exp** | **PMR** | **L CL** | **U CL** | **Deaths Obs** | **Deaths Exp** | **PMR** | **L CL** | **U CL** |
| Farming and fishing combined | | 56 | 5.2 | 1078 | 814 | 1399 | 31 | 2.1 | 1443 | 980 | 2048 | 12 | 1.1 | 1049 | 542 | 1831 |
| All other occupations | | 10 |  |  |  |  | 3 |  |  |  |  | 5 |  |  |  |  |
| Total | | 66 |  |  |  |  | 34 |  |  |  |  | 17 |  |  |  |  |
|  | |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| **Cancer of the peritoneum** | |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  | | 1979-80, 1982-1990 | | | | | 1991-2000 | | | | | 2001-2010 | | | | |
| **Job group** | | **Deaths Obs** | **Deaths Exp** | **PMR** | **L CL** | **U CL** | **Deaths Obs** | **Deaths Exp** | **PMR** | **L CL** | **U CL** | **Deaths Obs** | **Deaths Exp** | **PMR** | **L CL** | **U CL** |
| Vocational Trainers, Social Scientists etc. | | 2 | 0.9 | 230 | 28 | 832 | 0 | 1.0 | 0 | 0 | 375 | 2 | 1.2 | 168 | 20 | 608 |
| Chemical Engineers and Scientists | | 0 | 0.4 | 0 | 0 | 949 | 1 | 0.6 | 156 | 5 | 871 | 0 | 0.5 | 0 | 0 | 711 |
| Other Professional Engineers | | 2 | 2.5 | 79 | 9 | 286 | 4 | 4.4 | 92 | 25 | 235 | 4 | 4.2 | 95 | 26 | 243 |
| Draughtspersons | | 2 | 0.6 | 331 | 40 | 1195 | 0 | 1.3 | 0 | 0 | 284 | 0 | 1.2 | 0 | 0 | 308 |
| Laboratory Technicians | | 3 | 1.4 | 212 | 44 | 619 | 1 | 0.8 | 121 | 4 | 674 | 0 | 0.8 | 0 | 0 | 449 |
| Other Technicians | | 1 | 1.2 | 82 | 2 | 458 | 2 | 1.6 | 122 | 15 | 439 | 3 | 2.2 | 137 | 28 | 399 |
| Production and maintenance managers | | 12 | 6.1 | 198 | 102 | 345 | 2 | 5.6 | 36 | 4 | 129 | 5 | 4.5 | 112 | 36 | 262 |
| Managers in Construction | | 6 | 1.4 | 426 | 156 | 928 | 2 | 1.5 | 134 | 16 | 482 | 8 | 2.1 | 385 | 166 | 758 |
| Fire Service Personnel | | 0 | 0.4 | 0 | 0 | 992 | 0 | 0.7 | 0 | 0 | 537 | 2 | 0.7 | 301 | 36 | 1087 |
| Chemical workers combined | | 5 | 6.0 | 83 | 27 | 193 | 3 | 3.4 | 88 | 18 | 258 | 2 | 2.0 | 102 | 12 | 367 |
| Upholsterers | | 0 | 0.5 | 0 | 0 | 758 | 0 | 0.4 | 0 | 0 | 831 | 0 | 0.5 | 0 | 0 | 705 |
| Carpenters & Joiners | | 6 | 5.4 | 111 | 41 | 242 | 12 | 6.7 | 178 | 92 | 311 | 19 | 9.2 | 207 | 125 | 323 |
| Cabinet makers combined | | 2 | 0.7 | 273 | 33 | 986 | 0 | 0.8 | 0 | 0 | 444 | 1 | 1.0 | 104 | 3 | 578 |
| Smiths & Forge Workers | | 3 | 0.5 | 607 | 126 | 1775 | 0 | 0.4 | 0 | 0 | 881 | 1 | 0.4 | 279 | 8 | 1555 |
| Metal working machine operatives combined | | 16 | 19.7 | 81 | 46 | 132 | 13 | 12.0 | 109 | 58 | 186 | 10 | 10.4 | 96 | 46 | 177 |
| Production fitters | | 12 | 10.8 | 111 | 58 | 195 | 17 | 11.0 | 154 | 90 | 247 | 10 | 8.8 | 114 | 55 | 209 |
| Electricians electrical maintenance fitters combined | | 4 | 4.7 | 85 | 23 | 218 | 10 | 5.6 | 179 | 86 | 329 | 23 | 8.3 | 278 | 177 | 418 |
| Electrical engineers (not professional) combined | | 1 | 1.7 | 60 | 2 | 337 | 1 | 1.9 | 53 | 2 | 294 | 1 | 1.7 | 57 | 2 | 320 |
| Plumbers, Heating & Ventilating Engineers & Related Trades | | 11 | 3.6 | 309 | 154 | 553 | 11 | 4.6 | 238 | 119 | 427 | 7 | 5.7 | 124 | 50 | 255 |
| Sheet Metal Workers | | 4 | 1.6 | 257 | 70 | 658 | 5 | 1.3 | 374 | 121 | 874 | 3 | 1.3 | 236 | 49 | 691 |
| Metal Plate Workers, Shipwrights, Riveters | | 1 | 1.2 | 84 | 3 | 469 | 8 | 1.2 | 695 | 300 | 1370 | 5 | 0.9 | 561 | 182 | 1309 |
| Steel Erectors | | 2 | 0.9 | 234 | 28 | 846 | 3 | 1.1 | 273 | 56 | 798 | 0 | 0.8 | 0 | 0 | 466 |
| Scaffolders, Riggers combined | | 0 | 1.2 | 0 | 0 | 320 | 2 | 1.4 | 146 | 17 | 526 | 2 | 1.2 | 167 | 20 | 604 |
| Welding Trades | | 1 | 2.8 | 36 | 1 | 201 | 2 | 3.1 | 65 | 8 | 233 | 3 | 3.3 | 90 | 19 | 264 |
| Coach and vehicle body builders and repairers combined | | 4 | 0.4 | 957 | 261 | 2450 | 8 | 0.7 | 1174 | 506 | 2312 | 2 | 0.8 | 258 | 31 | 933 |
| Other construction workers combined | | 69 | 13.1 | 527 | 410 | 666 | 56 | 15.6 | 358 | 271 | 465 | 58 | 24.9 | 233 | 177 | 302 |
| Dockers goods porters and slingers combined | | 7 | 2.7 | 261 | 105 | 537 | 3 | 3.3 | 90 | 19 | 263 | 0 | 1.2 | 0 | 0 | 306 |
| Electrical, Energy, Boiler Operatives & Attendants combined | | 2 | 2.5 | 79 | 9 | 285 | 2 | 1.4 | 138 | 17 | 499 | 2 | 0.8 | 245 | 29 | 885 |
| Total | | 178 | 94.7 |  |  |  | 168 | 93.6 |  |  |  | 173 | 100.3 |  |  |  |
|  | |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| **Cancer of the pleura** | |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  | | 1979-80, 1982-1990 | | | | | 1991-2000 | | | | | 2001-2010 | | | | |
| **Job group** | | **Deaths Obs** | **Deaths Exp** | **PMR** | **L CL** | **U CL** | **Deaths Obs** | **Deaths Exp** | **PMR** | **L CL** | **U CL** | **Deaths Obs** | **Deaths Exp** | **PMR** | **L CL** | **U CL** |
| Vocational Trainers, Social Scientists etc. | | 13 | 6.5 | 200 | 106 | 342 | 7 | 7.7 | 91 | 36 | 187 | 11 | 7.4 | 150 | 75 | 267 |
| Chemical Engineers and Scientists | | 13 | 5.5 | 238 | 126 | 406 | 14 | 7.4 | 190 | 104 | 319 | 7 | 4.5 | 156 | 63 | 321 |
| Other Professional Engineers | | 53 | 38.1 | 139 | 104 | 182 | 75 | 49.7 | 151 | 119 | 189 | 46 | 32.5 | 141 | 103 | 189 |
| Draughtspersons | | 18 | 7.6 | 236 | 140 | 373 | 17 | 7.3 | 233 | 136 | 373 | 10 | 8.4 | 119 | 57 | 218 |
| Laboratory Technicians | | 10 | 9.7 | 103 | 49 | 189 | 13 | 5.8 | 222 | 118 | 380 | 5 | 4.7 | 106 | 34 | 247 |
| Other Technicians | | 13 | 7.3 | 178 | 95 | 305 | 29 | 11.6 | 249 | 167 | 358 | 22 | 12.6 | 174 | 109 | 263 |
| Production and maintenance managers | | 64 | 40.6 | 158 | 121 | 201 | 54 | 39.0 | 138 | 104 | 181 | 35 | 33.7 | 104 | 72 | 144 |
| Managers in Construction | | 32 | 10.0 | 319 | 218 | 450 | 26 | 10.1 | 256 | 167 | 376 | 29 | 12.5 | 232 | 155 | 333 |
| Fire Service Personnel | | 3 | 3.5 | 86 | 18 | 250 | 9 | 4.0 | 223 | 102 | 423 | 3 | 4.2 | 71 | 15 | 208 |
| Chemical workers combined | | 45 | 31.9 | 141 | 103 | 189 | 15 | 22.9 | 66 | 37 | 108 | 12 | 17.8 | 67 | 35 | 118 |
| Upholsterers | | 16 | 6.1 | 264 | 151 | 429 | 10 | 5.1 | 194 | 93 | 357 | 6 | 3.2 | 189 | 69 | 412 |
| Carpenters & Joiners | | 167 | 63.7 | 262 | 224 | 305 | 197 | 75.0 | 262 | 227 | 302 | 218 | 56.2 | 388 | 338 | 443 |
| Cabinet makers combined | | 8 | 9.1 | 88 | 38 | 173 | 15 | 9.3 | 161 | 90 | 266 | 12 | 5.7 | 210 | 108 | 366 |
| Smiths & Forge Workers | | 6 | 6.2 | 96 | 35 | 209 | 2 | 5.2 | 38 | 5 | 138 | 0 | 2.2 | 0 | 0 | 166 |
| Metal working machine operatives combined | | 120 | 92.9 | 129 | 107 | 154 | 109 | 69.9 | 156 | 128 | 188 | 86 | 65.5 | 131 | 105 | 162 |
| Production fitters | | 192 | 126.9 | 151 | 131 | 174 | 212 | 129.1 | 164 | 143 | 188 | 105 | 78.2 | 134 | 110 | 163 |
| Electricians electrical maintenance fitters combined | | 130 | 53.6 | 243 | 203 | 288 | 123 | 62.6 | 197 | 163 | 235 | 175 | 70.8 | 247 | 212 | 287 |
| Electrical engineers (not professional) combined | | 32 | 17.5 | 183 | 125 | 258 | 28 | 21.8 | 128 | 85 | 186 | 18 | 10.7 | 169 | 100 | 267 |
| Plumbers, Heating & Ventilating Engineers & Related Trades | | 134 | 41.0 | 327 | 274 | 387 | 154 | 51.4 | 299 | 254 | 351 | 136 | 44.4 | 306 | 257 | 362 |
| Sheet Metal Workers | | 25 | 18.6 | 135 | 87 | 199 | 27 | 15.9 | 170 | 112 | 248 | 28 | 7.6 | 369 | 245 | 533 |
| Metal Plate Workers, Shipwrights, Riveters | | 73 | 14.2 | 515 | 404 | 648 | 44 | 14.0 | 314 | 228 | 421 | 34 | 5.6 | 602 | 417 | 842 |
| Steel Erectors | | 9 | 9.6 | 94 | 43 | 178 | 21 | 12.5 | 168 | 104 | 256 | 3 | 4.8 | 62 | 13 | 182 |
| Scaffolders, Riggers combined | | 12 | 7.3 | 165 | 85 | 288 | 14 | 7.2 | 195 | 107 | 328 | 12 | 6.9 | 173 | 89 | 302 |
| Welding Trades | | 56 | 31.2 | 179 | 136 | 233 | 49 | 34.9 | 140 | 104 | 186 | 37 | 18.9 | 196 | 138 | 270 |
| Coach and vehicle body builders and repairers combined | | 24 | 5.1 | 470 | 301 | 699 | 21 | 7.7 | 272 | 168 | 416 | 13 | 6.3 | 206 | 110 | 353 |
| Other construction workers combined | | 147 | 91.9 | 160 | 135 | 188 | 151 | 120.7 | 125 | 106 | 147 | 156 | 143.4 | 109 | 92 | 127 |
| Dockers goods porters and slingers combined | | 38 | 20.4 | 186 | 132 | 256 | 38 | 19.9 | 191 | 135 | 262 | 9 | 7.3 | 123 | 56 | 234 |
| Electrical, Energy, Boiler Operatives & Attendants combined | | 38 | 16.5 | 231 | 163 | 317 | 21 | 8.7 | 243 | 150 | 371 | 11 | 5.2 | 213 | 106 | 381 |
| Total | | 1491 | 792.5 |  |  |  | 1495 | 836.5 |  |  |  | 1239 | 684.1 |  |  |  |
|  | |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| **Mesothelioma at other sites and unspecified combined** | | | | | | |  |  |  |  |  |  |  |  |  |  |
|  | | 1979-80, 1982-1990 | | | | | 1991-2000 | | | | | 2001-2010 | | | | |
| **Job group** | | **Deaths Obs** | **Deaths Exp** | **PMR** | **L CL** | **U CL** | **Deaths Obs** | **Deaths Exp** | **PMR** | **L CL** | **U CL** | **Deaths Obs** | **Deaths Exp** | **PMR** | **L CL** | **U CL** |
| Vocational Trainers, Social Scientists etc. | |  |  |  |  |  |  |  |  |  |  | 12 | 19.4 | 62 | 32 | 108 |
| Chemical Engineers and Scientists | |  |  |  |  |  |  |  |  |  |  | 18 | 12.2 | 147 | 87 | 232 |
| Other Professional Engineers | |  |  |  |  |  |  |  |  |  |  | 124 | 86.4 | 143 | 119 | 171 |
| Draughtspersons | |  |  |  |  |  |  |  |  |  |  | 25 | 23.9 | 105 | 68 | 154 |
| Laboratory Technicians | |  |  |  |  |  |  |  |  |  |  | 18 | 12.1 | 149 | 88 | 235 |
| Other Technicians | |  |  |  |  |  |  |  |  |  |  | 65 | 32.2 | 202 | 156 | 257 |
| Production and maintenance managers | |  |  |  |  |  |  |  |  |  |  | 66 | 92.2 | 72 | 55 | 91 |
| Managers in Construction | |  |  |  |  |  |  |  |  |  |  | 81 | 33.3 | 243 | 193 | 303 |
| Fire Service Personnel | |  |  |  |  |  |  |  |  |  |  | 21 | 12.4 | 170 | 105 | 259 |
| Chemical workers combined | |  |  |  |  |  |  |  |  |  |  | 17 | 43.8 | 39 | 23 | 62 |
| Upholsterers | |  |  |  |  |  |  |  |  |  |  | 8 | 8.5 | 95 | 41 | 186 |
| Carpenters & Joiners | |  |  |  |  |  |  |  |  |  |  | 553 | 157.9 | 350 | 322 | 381 |
| Cabinet makers combined | |  |  |  |  |  |  |  |  |  |  | 23 | 15.5 | 149 | 94 | 223 |
| Smiths & Forge Workers | |  |  |  |  |  |  |  |  |  |  | 3 | 5.8 | 51 | 11 | 150 |
| Metal working machine operatives combined | |  |  |  |  |  |  |  |  |  |  | 237 | 165.1 | 144 | 126 | 163 |
| Production fitters | |  |  |  |  |  |  |  |  |  |  | 254 | 193.7 | 131 | 115 | 148 |
| Electricians electrical maintenance fitters combined | |  |  |  |  |  |  |  |  |  |  | 422 | 178.5 | 236 | 214 | 260 |
| Electrical engineers (not professional) combined | |  |  |  |  |  |  |  |  |  |  | 41 | 31.2 | 131 | 94 | 178 |
| Plumbers, Heating & Ventilating Engineers & Related Trades | |  |  |  |  |  |  |  |  |  |  | 324 | 115.0 | 282 | 252 | 314 |
| Sheet Metal Workers | |  |  |  |  |  |  |  |  |  |  | 52 | 19.3 | 269 | 201 | 353 |
| Metal Plate Workers, Shipwrights, Riveters | |  |  |  |  |  |  |  |  |  |  | 47 | 14.5 | 325 | 239 | 432 |
| Steel Erectors | |  |  |  |  |  |  |  |  |  |  | 17 | 12.3 | 138 | 80 | 221 |
| Scaffolders, Riggers combined | |  |  |  |  |  |  |  |  |  |  | 31 | 17.6 | 176 | 120 | 250 |
| Welding Trades | |  |  |  |  |  |  |  |  |  |  | 70 | 49.5 | 141 | 110 | 179 |
| Coach and vehicle body builders and repairers combined | |  |  |  |  |  |  |  |  |  |  | 25 | 16.0 | 156 | 101 | 230 |
| Other construction workers combined | |  |  |  |  |  |  |  |  |  |  | 525 | 390.3 | 135 | 123 | 147 |
| Dockers goods porters and slingers combined | |  |  |  |  |  |  |  |  |  |  | 38 | 18.7 | 203 | 144 | 279 |
| Electrical, Energy, Boiler Operatives & Attendants combined | |  |  |  |  |  |  |  |  |  |  | 32 | 13.0 | 245 | 168 | 346 |
| Total | |  |  |  |  |  |  |  |  |  |  | 3149 | 1790.3 |  |  |  |
|  | |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| **Tuberculosis** | |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  | | 1979-80, 1982-1990 | | | | | 1991-2000 | | | | | 2001-2010 | | | | |
| **Job group** | | **Deaths Obs** | **Deaths Exp** | **PMR** | **L CL** | **U CL** | **Deaths Obs** | **Deaths Exp** | **PMR** | **L CL** | **U CL** | **Deaths Obs** | **Deaths Exp** | **PMR** | **L CL** | **U CL** |
| Other metal manufacturers combined | | 22 | 26.0 | 85 | 53 | 128 | 18 | 10.4 | 173 | 103 | 274 | 14 | 4.4 | 319 | 174 | 536 |
| Bricklayers, Masons combined | | 42 | 29.3 | 143 | 103 | 194 | 18 | 12.1 | 149 | 88 | 236 | 7 | 9.4 | 74 | 30 | 153 |
| Mine (excluding coal) & Quarry Workers | | 24 | 5.6 | 431 | 276 | 642 | 6 | 2.1 | 285 | 105 | 621 | 2 | 1.2 | 172 | 21 | 620 |
| Total | | 88 | 60.8 |  |  |  | 42 | 24.5 |  |  |  | 23 | 15.0 |  |  |  |
|  | |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| **Other and unspecified allergic pneumonitis** | | | | | | |  |  |  |  |  |  |  |  |  |  |
|  | | 1979-80, 1982-1990 | | | | | 1991-2000 | | | | | 2001-2010 | | | | |
| **Job group** | | **Deaths Obs** | **Deaths Exp** | **PMR** | **L CL** | **U CL** | **Deaths Obs** | **Deaths Exp** | **PMR** | **L CL** | **U CL** | **Deaths Obs** | **Deaths Exp** | **PMR** | **L CL** | **U CL** |
| Farming and fishing combined | | 7 | 0.9 | 772 | 310 | 1590 | 3 | 1.1 | 277 | 57 | 811 | 8 | 1.8 | 445 | 192 | 876 |
|  |  | |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| **Cancer of the nose and nasal sinuses and middle ear** | | | | | | |  |  |  |  |  |  |  |  |  |  |
|  | | 1979-80, 1982-1990 | | | | | 1991-2000 | | | | | 2001-2010 | | | | |
| **Job group** | | **Deaths Obs** | **Deaths Exp** | **PMR** | **L CL** | **U CL** | **Deaths Obs** | **Deaths Exp** | **PMR** | **L CL** | **U CL** | **Deaths Obs** | **Deaths Exp** | **PMR** | **L CL** | **U CL** |
| Leather and related trades combined | | 7 | 3.4 | 209 | 84 | 430 | 1 | 1.3 | 75 | 2 | 416 | 0 | 0.4 | 0 | 0 | 839 |
| Paper and wood machine operatives combined | | 14 | 5.0 | 277 | 152 | 465 | 5 | 2.2 | 227 | 74 | 531 | 2 | 1.2 | 165 | 20 | 597 |
| Carpenters & Joiners | | 19 | 14.8 | 128 | 77 | 201 | 17 | 10.5 | 161 | 94 | 259 | 15 | 9.1 | 165 | 93 | 273 |
| Cabinet makers combined | | 10 | 2.2 | 457 | 219 | 841 | 12 | 1.3 | 901 | 465 | 1573 | 13 | 1.0 | 1336 | 711 | 2284 |
| Total | | 50 | 25.4 |  |  |  | 35 | 15.4 |  |  |  | 30 | 11.7 |  |  |  |
|  | |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| **Combined pneumonia (excluding bronchopneumonia) - Age 20-64 years** | | | | | | |  |  |  |  |  |  |  |  |  |  |
|  | | 1979-80, 1982-1990 | | | | | 1991-2000 | | | | | 2001-2010 | | | | |
| **Job group** | | **Deaths Obs** | **Deaths Exp** | **PMR** | **L CL** | **U CL** | **Deaths Obs** | **Deaths Exp** | **PMR** | **L CL** | **U CL** | **Deaths Obs** | **Deaths Exp** | **PMR** | **L CL** | **U CL** |
| Moulders, Core Makers, Die Casters | | 20 | 9.0 | 223 | 137 | 345 | 7 | 4.9 | 142 | 57 | 292 | 2 | 3.3 | 61 | 7 | 220 |
| Other metal manufacturers combined | | 37 | 29.2 | 127 | 89 | 174 | 20 | 23.0 | 87 | 53 | 134 | 12 | 14.7 | 82 | 42 | 143 |
| Sheet Metal Workers | | 29 | 16.6 | 175 | 117 | 251 | 21 | 14.2 | 148 | 91 | 226 | 14 | 12.6 | 111 | 61 | 186 |
| Welding Trades | | 78 | 32.3 | 242 | 191 | 302 | 74 | 38.0 | 195 | 153 | 245 | 61 | 45.0 | 135 | 104 | 174 |
| Total | | 164 | 87.0 |  |  |  | 122 | 80.2 |  |  |  | 89 | 75.6 |  |  |  |
|  | |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| **Chronic bronchitis and emphysema** | | | | | | |  |  |  |  |  |  |  |  |  |  |
|  | | 1979-80, 1982-1990 | | | | | 1991-2000 | | | | | 2001-2010 | | | | |
| **Job group** | | **Deaths Obs** | **Deaths Exp** | **PMR** | **L CL** | **U CL** | **Deaths Obs** | **Deaths Exp** | **PMR** | **L CL** | **U CL** | **Deaths Obs** | **Deaths Exp** | **PMR** | **L CL** | **U CL** |
| Managers in Transport, Mining and Energy Industries | | 649 | 594.2 | 109 | 101 | 118 | 534 | 446.6 | 120 | 110 | 130 | 307 | 279.1 | 110 | 98 | 123 |
| Glass and ceramic workers combined | | 585 | 491.4 | 119 | 110 | 129 | 278 | 229.9 | 121 | 107 | 136 | 155 | 148.2 | 105 | 89 | 122 |
| Coal miners combined | | 4719 | 3271.1 | 144 | 140 | 148 | 2349 | 1731.0 | 136 | 130 | 141 | 1245 | 970.3 | 128 | 121 | 136 |
| Moulders, Core Makers, Die Casters | | 409 | 279.6 | 146 | 132 | 161 | 163 | 125.8 | 130 | 110 | 151 | 61 | 50.2 | 121 | 93 | 156 |
| Electroplaters combined | | 104 | 73.5 | 142 | 116 | 172 | 43 | 42.8 | 100 | 73 | 135 | 30 | 25.2 | 119 | 80 | 170 |
| Other metal manufacturers combined | | 925 | 804.1 | 115 | 108 | 123 | 522 | 465.6 | 112 | 103 | 122 | 265 | 229.7 | 115 | 102 | 130 |
| Total | | 7391 | 5513.8 |  |  |  | 3889 | 3041.7 |  |  |  | 2063 | 1702.6 |  |  |  |
|  | |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| **Asthma** | |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  | | 1979-80, 1982-1990 | | | | | 1991-2000 | | | | | 2001-2010 | | | | |
| **Job group** | | **Deaths Obs** | **Deaths Exp** | **PMR** | **L CL** | **U CL** | **Deaths Obs** | **Deaths Exp** | **PMR** | **L CL** | **U CL** | **Deaths Obs** | **Deaths Exp** | **PMR** | **L CL** | **U CL** |
| Other health professions combined | | 6 | 8.4 | 71 | 26 | 155 | 14 | 6.2 | 225 | 123 | 377 | 8 | 3.3 | 243 | 105 | 480 |
| Butchers | | 40 | 32.8 | 122 | 87 | 166 | 31 | 18.3 | 170 | 115 | 241 | 10 | 8.0 | 125 | 60 | 230 |
| Other textile processing operatives combined | | 43 | 32.0 | 135 | 97 | 181 | 14 | 6.6 | 213 | 117 | 358 | 2 | 2.4 | 82 | 10 | 298 |
| Bakers | | 26 | 17.3 | 151 | 98 | 221 | 16 | 11.8 | 135 | 77 | 220 | 4 | 3.3 | 121 | 33 | 309 |
| Assemblers/Lineworkers (electrical/electronic goods) | | 10 | 4.2 | 239 | 115 | 439 | 9 | 5.9 | 154 | 70 | 292 | 2 | 2.4 | 82 | 10 | 295 |
| Packers sorters and testers combined | | 31 | 27.4 | 113 | 77 | 160 | 58 | 44.9 | 129 | 98 | 167 | 18 | 14.8 | 121 | 72 | 192 |
| Total | | 156 | 122.1 |  |  |  | 142 | 93.7 |  |  |  | 44 | 34.3 |  |  |  |

**a**Deaths from pneumonia in relation to metal fume are at ages 20-64 years

Deaths Obs - Deaths observed, Deaths Exp - Deaths expected, L CL and U CL - Lower and Upper 95% Confidence Limits

|  |  |
| --- | --- |
| **Supplementary Table S5** | **Excess mortality from diseases with other occupational causes, men aged 20-74 years, England and Wales, 1979-2010** |

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  |  | | | | |  | | | | |  | | | | |
| **Viral hepatitis** |  | | | | |  | | | | |  | | | | |
|  | 1979-80, 1982-1990 | | | | | 1991-2000 | | | | | 2001-2010 | | | | |
| **Job group** | **Deaths Obs** | **Deaths Exp** | **PMR** | **L CL** | **U CL** | **Deaths Obs** | **Deaths Exp** | **PMR** | **L CL** | **U CL** | **Deaths Obs** | **Deaths Exp** | **PMR** | **L CL** | **U CL** |
| Doctors | 14 | 3.2 | 435 | 238 | 729 | 8 | 2.7 | 300 | 129 | 591 | 10 | 3.0 | 336 | 161 | 618 |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| **Cancer of the oral cavity** |  | | | | |  | | | | |  | | | | |
|  | 1979-80, 1982-1990 | | | | | 1991-2000 | | | | | 2001-2010 | | | | |
| **Job group** | **Deaths Obs** | **Deaths Exp** | **PMR** | **L CL** | **U CL** | **Deaths Obs** | **Deaths Exp** | **PMR** | **L CL** | **U CL** | **Deaths Obs** | **Deaths Exp** | **PMR** | **L CL** | **U CL** |
| Publicans and Bar staff | 117 | 42.6 | 275 | 227 | 330 | 110 | 35.3 | 311 | 256 | 375 | 109 | 43.1 | 253 | 208 | 305 |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| **Cancer of the pharynx (specified)** | | | | | |  | | | | |  | | | | |
|  | 1979-80, 1982-1990 | | | | | 1991-2000 | | | | | 2001-2010 | | | | |
| **Job group** | **Deaths Obs** | **Deaths Exp** | **PMR** | **L CL** | **U CL** | **Deaths Obs** | **Deaths Exp** | **PMR** | **L CL** | **U CL** | **Deaths Obs** | **Deaths Exp** | **PMR** | **L CL** | **U CL** |
| Publicans and Bar staff | 71 | 30.8 | 230 | 180 | 291 | 67 | 28.2 | 238 | 184 | 302 | 83 | 38.7 | 215 | 171 | 266 |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| **Cancer of the liver** |  | | | | |  | | | | |  | | | | |
|  | 1979-80, 1981-1990 | | | | | 1991-2000 | | | | | 2001-2010 | | | | |
| **Job group** | **Deaths Obs** | **Deaths Exp** | **PMR** | **L CL** | **U CL** | **Deaths Obs** | **Deaths Exp** | **PMR** | **L CL** | **U CL** | **Deaths Obs** | **Deaths Exp** | **PMR** | **L CL** | **U CL** |
| Publicans and Bar staff | 112 | 69.1 | 162 | 134 | 195 | 125 | 81.8 | 153 | 127 | 182 | 165 | 107.6 | 153 | 131 | 179 |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| **Cancer of the larynx** |  | | | | |  | | | | |  | | | | |
|  | 1979-80, 1982-1990 | | | | | 1991-2000 | | | | | 2001-2010 | | | | |
| **Job group** | **Deaths Obs** | **Deaths Exp** | **PMR** | **L CL** | **U CL** | **Deaths Obs** | **Deaths Exp** | **PMR** | **L CL** | **U CL** | **Deaths Obs** | **Deaths Exp** | **PMR** | **L CL** | **U CL** |
| Publicans and Bar staff | 119 | 45.4 | 262 | 217 | 314 | 100 | 36.1 | 277 | 225 | 337 | 75 | 34.6 | 217 | 171 | 272 |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  | | | | |  | | | | |  | | | | |
| **Cirrhosis (not specified as biliary)** | | | | | |  | | | | |  | | | | |
|  | 1979-80, 1982-1990 | | | | | 1991-2000 | | | | | 2001-2010 | | | | |
| **Job group** | **Deaths Obs** | **Deaths Exp** | **PMR** | **L CL** | **U CL** | **Deaths Obs** | **Deaths Exp** | **PMR** | **L CL** | **U CL** | **Deaths Obs** | **Deaths Exp** | **PMR** | **L CL** | **U CL** |
| Publicans and Bar staff | 243 | 80.9 | 301 | 264 | 341 | 170 | 72.0 | 236 | 202 | 274 | 145 | 79.9 | 181 | 153 | 214 |
|  |  | | | | |  | | | | |  | | | | |
| **Pancreatitis** |  | | | | |  | | | | |  | | | | |
|  | 1979-80, 1982-1990 | | | | | 1991-2000 | | | | | 2001-2010 | | | | |
| **Job group** | **Deaths Obs** | **Deaths Exp** | **PMR** | **L CL** | **U CL** | **Deaths Obs** | **Deaths Exp** | **PMR** | **L CL** | **U CL** | **Deaths Obs** | **Deaths Exp** | **PMR** | **L CL** | **U CL** |
| Publicans and Bar staff | 45 | 33.6 | 134 | 98 | 179 | 32 | 31.4 | 102 | 70 | 144 | 31 | 30.5 | 102 | 69 | 144 |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| **Other alcohol-related diseases (excluding alcohol poisoning)** | | | | | |  |  |  |  |  |  |  |  |  |  |
|  | 1979-80, 1982-1990 | | | | | 1991-2000 | | | | | 2001-2010 | | | | |
| **Job group** | **Deaths Obs** | **Deaths Exp** | **PMR** | **L CL** | **U CL** | **Deaths Obs** | **Deaths Exp** | **PMR** | **L CL** | **U CL** | **Deaths Obs** | **Deaths Exp** | **PMR** | **L CL** | **U CL** |
| Publicans and Bar staff | 458 | 125.4 | 365 | 333 | 400 | 449 | 185.9 | 241 | 220 | 265 | 662 | 319.0 | 208 | 192 | 224 |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| **Other cancer of skin (non-melanoma)** | | | | | |  | | | | |  | | | | |
|  | 1979-80, 1982-1990 | | | | | 1991-2000 | | | | | 2001-2010 | | | | |
| **Job group** | **Deaths Obs** | **Deaths Exp** | **PMR** | **L CL** | **U CL** | **Deaths Obs** | **Deaths Exp** | **PMR** | **L CL** | **U CL** | **Deaths Obs** | **Deaths Exp** | **PMR** | **L CL** | **U CL** |
| Farming and fishing combined | 57 | 45.9 | 124 | 94 | 161 | 42 | 30.0 | 140 | 101 | 189 | 21 | 23.1 | 91 | 56 | 139 |
| Other construction workers combined | 42 | 37.8 | 111 | 80 | 150 | 28 | 30.6 | 91 | 61 | 132 | 50 | 40.7 | 123 | 91 | 162 |
| Total | 99 | 83.8 |  |  |  | 70 | 60.6 |  |  |  | 71 | 63.8 |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| **Urothelial cancer** |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  | 1979-80, 1982-1990 | | | | | 1991-2000 | | | | | 2001-2010 | | | | |
| **Job group** | **Deaths Obs** | **Deaths Exp** | **PMR** | **L CL** | **U CL** | **Deaths Obs** | **Deaths Exp** | **PMR** | **L CL** | **U CL** | **Deaths Obs** | **Deaths Exp** | **PMR** | **L CL** | **U CL** |
| Chemical workers combined | 224 | 208.8 | 107 | 94 | 122 | 145 | 116.8 | 124 | 105 | 146 | 85 | 68.7 | 124 | 99 | 153 |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| **Cancer of the scrotum** |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  | 1979-80, 19821990 | | | | | 1991-2000 | | | | | 2001-2010 | | | | |
| **Job group** | **Deaths Obs** | **Deaths Exp** | **PMR** | **L CL** | **U CL** | **Deaths Obs** | **Deaths Exp** | **PMR** | **L CL** | **U CL** | **Deaths Obs** | **Deaths Exp** | **PMR** | **L CL** | **U CL** |
| Metal machining setters and setter-operators combined | 9 | 0.7 | 1245 | 570 | 2362 | 3 | 0.3 | 1171 | 242 | 3423 | 0 | 0.1 | 0 | 0 | 5172 |
| Metal working machine operatives combined | 8 | 3.9 | 206 | 89 | 406 | 3 | 1.1 | 274 | 57 | 802 | 1 | 0.4 | 254 | 8 | 1416 |
| Production fitters | 7 | 3.1 | 228 | 92 | 470 | 1 | 0.7 | 136 | 4 | 759 | 1 | 0.5 | 218 | 7 | 1215 |
| Total | 24 | 7.7 |  |  |  | 7 | 2.1 |  |  |  | 2 | 0.9 |  |  |  |

Deaths Obs - Deaths observed, Deaths Exp - Deaths expected, L CL and U CL - Lower and Upper 95% Confidence Limits

|  |  |
| --- | --- |
| **Supplementary Table S6** | **Excess mortality from occupational injuries and poisoning, men aged 20-64 yearsa, England and Wales, 1979-2010** |

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | |  | | |  | | |  | | | | | | | |
| **Railway accidents combined** | |  | | |  | | |  | | | | | | | |
|  | | 1979-80, 1982-1990 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 1991-2000 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 2001-2010 | | | | | | | | | | | |
| **Job group** | | **Deaths Obs** | | **Deaths Exp** | | | **PMR** | | | | | | | **L CL** | | | **U CL** | | | | | | | | | | | | | | | | | | | | | **Deaths Obs** | | | | | | | | | | | | | | | | | | | **Deaths Exp** | | | | | | | | | | | | | | | | **PMR** | | | | | | | | | | | | | | | | | **L CL** | | | | | | | **U CL** | | | **Deaths Obs** | | | **Deaths Exp** | | **PMR** | | **L CL** | | **U CL** | | |
| Rail travel assistants combined | | 38 | | 2.0 | | | 1877 | | | | | | | 1328 | | | 2576 | | | | | | | | | | | | | | | | | | | | | 8 | | | | | | | | | | | | | | | | | | | 0.8 | | | | | | | | | | | | | | | | 1023 | | | | | | | | | | | | | | | | | 441 | | | | | | | 2015 | | | 0 | | | 0.1 | | 0 | | 0 | | 2481 | | |
| Rail Construction & Maintenance Workers | | 55 | | 1.0 | | | 5601 | | | | | | | 4219 | | | 7290 | | | | | | | | | | | | | | | | | | | | | 10 | | | | | | | | | | | | | | | | | | | 0.3 | | | | | | | | | | | | | | | | 3875 | | | | | | | | | | | | | | | | | 1860 | | | | | | | 7125 | | | 0 | | | 0.1 | | 0 | | 0 | | 3040 | | |
| Rail transport operatives combined | | 14 | | 0.6 | | | 2262 | | | | | | | 1236 | | | 3795 | | | | | | | | | | | | | | | | | | | | | 2 | | | | | | | | | | | | | | | | | | | 0.2 | | | | | | | | | | | | | | | | 1281 | | | | | | | | | | | | | | | | | 154 | | | | | | | 4626 | | | 4 | | | 0.3 | | 1290 | | 351 | | 3302 | | |
| Railway engine drivers | | 27 | | 1.1 | | | 2396 | | | | | | | 1579 | | | 3485 | | | | | | | | | | | | | | | | | | | | | 5 | | | | | | | | | | | | | | | | | | | 0.3 | | | | | | | | | | | | | | | | 1675 | | | | | | | | | | | | | | | | | 543 | | | | | | | 3908 | | | 1 | | | 0.2 | | 605 | | 18 | | 3372 | | |
| Total | | 134 | | 4.8 | | |  | | | | | | |  | | |  | | | | | | | | | | | | | | | | | | | | | 25 | | | | | | | | | | | | | | | | | | | 1.5 | | | | | | | | | | | | | | | |  | | | | | | | | | | | | | | | | |  | | | | | | |  | | | 5 | | | 0.7 | |  | |  | |  | | |
|  | |  | |  | | |  | | | | | | |  | | |  | | | | | | | | | | | | | | | | | | | | |  | | | | | | | | | | | | | | | | | | |  | | | | | | | | | | | | | | | |  | | | | | | | | | | | | | | | | |  | | | | | | |  | | |  | | |  | |  | |  | |  | | |
|  | |  | |  | | |  | | | | | | |  | | |  | | | | | | | | | | | | | | | | | | | | |  | | | | | | | | | | | | | | | | | | |  | | | | | | | | | | | | | | | |  | | | | | | | | | | | | | | | | |  | | | | | | |  | | |  | | |  | |  | |  | |  | | |
| **Motor vehicle traffic accidents combined** | |  | |  | | |
|  | | 1979-80, 1982-1990 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 1991-2000 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 2001-2010 | | | | | | | | | | | |
| **Job group** | | **Deaths Obs** | | **Deaths Exp** | | | **PMR** | | | | | | | **L CL** | | | **U CL** | | | | | | | | | | | | | | | | | | | | | **Deaths Obs** | | | | | | | | | | | | | | | | | | | **Deaths Exp** | | | | | | | | | | | | | | | | **PMR** | | | | | | | | | | | | | | | | | **L CL** | | | | | | | **U CL** | | | **Deaths Obs** | | | **Deaths Exp** | | **PMR** | | **L CL** | | **U CL** | | |
| Police | | 214 | | 124.0 | | | 173 | | | | | | | 150 | | | 197 | | | | | | | | | | | | | | | | | | | | | 118 | | | | | | | | | | | | | | | | | | | 57.9 | | | | | | | | | | | | | | | | 204 | | | | | | | | | | | | | | | | | 169 | | | | | | | 244 | | | 108 | | | 59.6 | | 181 | | 149 | | 219 | | |
| Fire Service Personnel | | 40 | | 37.9 | | | 106 | | | | | | | 75 | | | 144 | | | | | | | | | | | | | | | | | | | | | 50 | | | | | | | | | | | | | | | | | | | 25.4 | | | | | | | | | | | | | | | | 197 | | | | | | | | | | | | | | | | | 146 | | | | | | | 259 | | | 28 | | | 19.2 | | 146 | | 97 | | 211 | | |
| Sales Representatives | | 421 | | 301.9 | | | 139 | | | | | | | 126 | | | 153 | | | | | | | | | | | | | | | | | | | | | 170 | | | | | | | | | | | | | | | | | | | 127.7 | | | | | | | | | | | | | | | | 133 | | | | | | | | | | | | | | | | | 114 | | | | | | | 155 | | | 158 | | | 125.4 | | 126 | | 107 | | 147 | | |
| Road Construction Workers and Paviors | | 81 | | 52.0 | | | 156 | | | | | | | 124 | | | 193 | | | | | | | | | | | | | | | | | | | | | 47 | | | | | | | | | | | | | | | | | | | 28.6 | | | | | | | | | | | | | | | | 165 | | | | | | | | | | | | | | | | | 121 | | | | | | | 219 | | | 39 | | | 30.7 | | 127 | | 90 | | 174 | | |
| Lorry drivers | | 1329 | | 834.4 | | | 159 | | | | | | | 151 | | | 168 | | | | | | | | | | | | | | | | | | | | | 887 | | | | | | | | | | | | | | | | | | | 506.6 | | | | | | | | | | | | | | | | 175 | | | | | | | | | | | | | | | | | 164 | | | | | | | 187 | | | 871 | | | 424.8 | | 205 | | 192 | | 219 | | |
| Other transport, plant and machine operatives combined | | 13 | | 15.3 | | | 85 | | | | | | | 45 | | | 145 | | | | | | | | | | | | | | | | | | | | | 182 | | | | | | | | | | | | | | | | | | | 134.3 | | | | | | | | | | | | | | | | 136 | | | | | | | | | | | | | | | | | 117 | | | | | | | 157 | | | 148 | | | 108.7 | | 136 | | 115 | | 160 | | |
| Marketing & Sales managers combined | | 260 | | 196.3 | | | 132 | | | | | | | 117 | | | 150 | | | | | | | | | | | | | | | | | | | | | 201 | | | | | | | | | | | | | | | | | | | 153.6 | | | | | | | | | | | | | | | | 131 | | | | | | | | | | | | | | | | | 113 | | | | | | | 150 | | | 195 | | | 222.7 | | 88 | | 76 | | 101 | | |
| Total | | 2358 | | 1561.8 | | |  | | | | | | |  | | |  | | | | | | | | | | | | | | | | | | | | | 1655 | | | | | | | | | | | | | | | | | | | 1034.1 | | | | | | | | | | | | | | | |  | | | | | | | | | | | | | | | | |  | | | | | | |  | | | 1547 | | | 991.1 | |  | |  | |  | | |
|  | |  | |  | | |  | | | | | | |  | | |  | | | | | | | | | | | | | | | | | | | | |  | | | | | | | | | | | | | | | | | | |  | | | | | | | | | | | | | | | |  | | | | | | | | | | | | | | | | |  | | | | | | |  | | |  | | |  | |  | |  | |  | | |
|  | |  | |  | | |  | | | | | | |  | | |  | | | | | | | | | | | | | | | | | | | | |  | | | | | | | | | | | | | | | | | | |  | | | | | | | | | | | | | | | |  | | | | | | | | | | | | | | | | |  | | | | | | |  | | |  | | |  | |  | |  | |  | | |
| **Off-road motor vehicle traffic accidents combined** | |  | |  | | |
|  | | 1979-80, 1982-1990 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 1991-2000 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 2001-2010 | | | | | | | | | | | |
| **Job group** | | **Deaths Obs** | | **Deaths Exp** | | | **PMR** | | | | | | | **L CL** | | | **U CL** | | | | | | | | | | | | | | | | | | | | | **Deaths Obs** | | | | | | | | | | | | | | | | | | | **Deaths Exp** | | | | | | | | | | | | | | | | **PMR** | | | | | | | | | | | | | | | | | **L CL** | | | | | | | **U CL** | | | **Deaths Obs** | | | **Deaths Exp** | | **PMR** | | **L CL** | | **U CL** | | |
| Professional athletes, sports officials | | 11 | | 0.4 | | | 3081 | | | | | | | 1538 | | | 5513 | | | | | | | | | | | | | | | | | | | | | 3 | | | | | | | | | | | | | | | | | | | 0.2 | | | | | | | | | | | | | | | | 1490 | | | | | | | | | | | | | | | | | 308 | | | | | | | 4355 | | | 0 | | | 0.3 | | 0 | | 0 | | 1260 | | |
| Farming and fishing combined | | 32 | | 14.3 | | | 224 | | | | | | | 153 | | | 316 | | | | | | | | | | | | | | | | | | | | | 22 | | | | | | | | | | | | | | | | | | | 8.0 | | | | | | | | | | | | | | | | 276 | | | | | | | | | | | | | | | | | 173 | | | | | | | 418 | | | 50 | | | 5.2 | | 967 | | 718 | | 1275 | | |
| Armed Forces (unadjusted) | | 19 | | 8.5 | | | 225 | | | | | | | 135 | | | 351 | | | | | | | | | | | | | | | | | | | | | 7 | | | | | | | | | | | | | | | | | | | 2.8 | | | | | | | | | | | | | | | | 247 | | | | | | | | | | | | | | | | | 99 | | | | | | | 509 | | | 0 | | | 1.4 | | 0 | | 0 | | 262 | | |
| Forestry Workers | | 3 | | 0.5 | | | 568 | | | | | | | 117 | | | 1661 | | | | | | | | | | | | | | | | | | | | | 1 | | | | | | | | | | | | | | | | | | | 0.3 | | | | | | | | | | | | | | | | 307 | | | | | | | | | | | | | | | | | 9 | | | | | | | 1711 | | | 1 | | | 0.1 | | 930 | | 28 | | 5180 | | |
| Motor Mechanics, Auto Engineers combined | | 17 | | 8.3 | | | 204 | | | | | | | 119 | | | 327 | | | | | | | | | | | | | | | | | | | | | 11 | | | | | | | | | | | | | | | | | | | 5.4 | | | | | | | | | | | | | | | | 203 | | | | | | | | | | | | | | | | | 102 | | | | | | | 364 | | | 0 | | | 2.2 | | 0 | | 0 | | 169 | | |
| Mine (excluding coal) & Quarry Workers | | 3 | | 0.6 | | | 491 | | | | | | | 101 | | | 1435 | | | | | | | | | | | | | | | | | | | | | 1 | | | | | | | | | | | | | | | | | | | 0.3 | | | | | | | | | | | | | | | | 364 | | | | | | | | | | | | | | | | | 11 | | | | | | | 2030 | | | 0 | | | 0.1 | | 0 | | 0 | | 2781 | | |
| Lorry drivers | | 75 | | 25.2 | | | 298 | | | | | | | 234 | | | 374 | | | | | | | | | | | | | | | | | | | | | 52 | | | | | | | | | | | | | | | | | | | 15.7 | | | | | | | | | | | | | | | | 332 | | | | | | | | | | | | | | | | | 248 | | | | | | | 435 | | | 7 | | | 6.1 | | 115 | | 46 | | 237 | | |
| Mechanical Plant Drivers & Operatives (earth moving & civil engineering) | | 4 | | 1.4 | | | 292 | | | | | | | 80 | | | 749 | | | | | | | | | | | | | | | | | | | | | 2 | | | | | | | | | | | | | | | | | | | 1.2 | | | | | | | | | | | | | | | | 163 | | | | | | | | | | | | | | | | | 20 | | | | | | | 589 | | | 6 | | | 0.5 | | 1197 | | 439 | | 2605 | | |
| Crane Drivers | | 7 | | 2.0 | | | 349 | | | | | | | 140 | | | 720 | | | | | | | | | | | | | | | | | | | | | 1 | | | | | | | | | | | | | | | | | | | 0.8 | | | | | | | | | | | | | | | | 127 | | | | | | | | | | | | | | | | | 4 | | | | | | | 706 | | | 1 | | | 0.2 | | 504 | | 15 | | 2808 | | |
| Fork Lift & Mechanical Truck Drivers | | 7 | | 3.8 | | | 186 | | | | | | | 75 | | | 383 | | | | | | | | | | | | | | | | | | | | | 6 | | | | | | | | | | | | | | | | | | | 3.0 | | | | | | | | | | | | | | | | 200 | | | | | | | | | | | | | | | | | 73 | | | | | | | 436 | | | 4 | | | 1.8 | | 226 | | 62 | | 579 | | |
| Storekeepers & warehousemen | | 12 | | 11.7 | | | 102 | | | | | | | 53 | | | 179 | | | | | | | | | | | | | | | | | | | | | 12 | | | | | | | | | | | | | | | | | | | 5.9 | | | | | | | | | | | | | | | | 203 | | | | | | | | | | | | | | | | | 105 | | | | | | | 354 | | | 6 | | | 3.5 | | 171 | | 63 | | 373 | | |
| Total | | 190 | | 76.6 | | |  | | | | | | |  | | |  | | | | | | | | | | | | | | | | | | | | | 118 | | | | | | | | | | | | | | | | | | | 43.6 | | | | | | | | | | | | | | | |  | | | | | | | | | | | | | | | | |  | | | | | | |  | | | 75 | | | 21.4 | |  | |  | |  | | |
|  | |  | |  | | |  | | | | | | |
| **Animal transport accidents** | |  | |  | | |  | | | | | | |
|  | | 1979-80, 1982-1990 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 1991-2000 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 2001-2010 | | | | | | | | | | | |
| **Job group** | | **Deaths Obs** | | **Deaths Exp** | | | **PMR** | | | | | | | **L CL** | | | | **U CL** | | | | | | | | | | | | | | | | | | | | **Deaths Obs** | | | | | | | | | | | | | | | | | | | **Deaths Exp** | | | | | | | | | | | | | | | | **PMR** | | | | | | | | | | | | | | | | | **L CL** | | | | | | | **U CL** | | | **Deaths Obs** | | | **Deaths Exp** | | **PMR** | | **L CL** | | **U CL** | | |
| Professional athletes, sports officials | | 2 | | 0.1 | | | 2740 | | | | | | | 329 | | | | 9890 | | | | | | | | | | | | | | | | | | | | 5 | | | | | | | | | | | | | | | | | | | 0.2 | | | | | | | | | | | | | | | | 3321 | | | | | | | | | | | | | | | | | 1076 | | | | | | | 7751 | | | 2 | | | 0.1 | | 2537 | | 304 | | 9160 | | |
| Farming and fishing combined | | 12 | | 2.3 | | | 519 | | | | | | | 268 | | | | 906 | | | | | | | | | | | | | | | | | | | | 9 | | | | | | | | | | | | | | | | | | | 1.0 | | | | | | | | | | | | | | | | 920 | | | | | | | | | | | | | | | | | 421 | | | | | | | 1745 | | | 4 | | | 0.5 | | 860 | | 234 | | 2202 | | |
| Total | | 14 | | 2.4 | | |  | | | | | | |  | | | |  | | | | | | | | | | | | | | | | | | | | 14 | | | | | | | | | | | | | | | | | | | 1.1 | | | | | | | | | | | | | | | |  | | | | | | | | | | | | | | | | |  | | | | | | |  | | | 6 | | | 0.5 | |  | |  | |  | | |
|  | |  | |  | | |  | | | | | | |  | | | |  | | | | | | | | | | | | | | | | | | | |  | | | | | | | | | | | | | | | | | | |  | | | | | | | | | | | | | | | |  | | | | | | | | | | | | | | | | |  | | | | | | |  | | |  | | |  | |  | |  | |  | | |
| **Water transport accidents** | |  | |  | | |  | | | | | | |  | | | |  | | | | | | | | | | | | | | | | | | | |  | | | | | | | | | | | | | | | | | | |  | | | | | | | | | | | | | | | |  | | | | | | | | | | | | | | | | |  | | | | | | |  | | |  | | |  | |  | |  | |  | | |
|  | | 1979-80, 1982-1990 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 1991-2000 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 2001-2010 | | | | | | | | | | | |
| **Job group** | | **Deaths Obs** | | **Deaths Exp** | | | **PMR** | | | | | | | **L CL** | | | | **U CL** | | | | | | | | | | | | | | | | | | | | | | **Deaths Obs** | | | | | | | | | | | | | | | | | | **Deaths Exp** | | | | | | | | | | | | | | | | **PMR** | | | | | | | | | | | | | | | | **L CL** | | | | | | | **U CL** | | | **Deaths Obs** | | | **Deaths Exp** | | **PMR** | | **L CL** | | **U CL** | | |
| Seafarers | | 104 | | 4.9 | | | 2144 | | | | | | | 1752 | | | | 2598 | | | | | | | | | | | | | | | | | | | | | | 18 | | | | | | | | | | | | | | | | | | 1.0 | | | | | | | | | | | | | | | | 1787 | | | | | | | | | | | | | | | | 1059 | | | | | | | 2824 | | | 9 | | | 0.4 | | 2224 | | 1018 | | 4221 | | |
| Farming and fishing combined | | 52 | | 24.2 | | | 215 | | | | | | | 161 | | | | 282 | | | | | | | | | | | | | | | | | | | | | | 27 | | | | | | | | | | | | | | | | | | 7.6 | | | | | | | | | | | | | | | | 354 | | | | | | | | | | | | | | | | 233 | | | | | | | 515 | | | 16 | | | 3.9 | | 405 | | 232 | | 658 | | |
| Dockers goods porters and slingers combined | | 12 | | 1.9 | | | 616 | | | | | | | 318 | | | | 1077 | | | | | | | | | | | | | | | | | | | | | | 7 | | | | | | | | | | | | | | | | | | 0.7 | | | | | | | | | | | | | | | | 1030 | | | | | | | | | | | | | | | | 413 | | | | | | | 2121 | | | 2 | | | 0.1 | | 1702 | | 204 | | 6144 | | |
| Total | | 168 | | 31.0 | | |  | | | | | | |  | | | |  | | | | | | | | | | | | | | | | | | | | | | 52 | | | | | | | | | | | | | | | | | | 9.3 | | | | | | | | | | | | | | | |  | | | | | | | | | | | | | | | |  | | | | | | |  | | | 27 | | | 4.5 | |  | |  | |  | | |
|  | |  | |  | | |  | | | | | | |  | | | |  | | | | | | | | | | | | | | | | | | | | | |  | | | | | | | | | | | | | | | | | |  | | | | | | | | | | | | | | | |  | | | | | | | | | | | | | | | |  | | | | | | |  | | |  | | |  | |  | |  | |  | | |
| **Air transport accidents** | |  | |  | | |  | | | | | | |  | | | |  | | | | | | | | | | | | | | | | | | | | | |  | | | | | | | | | | | | | | | | | |  | | | | | | | | | | | | | | | |  | | | | | | | | | | | | | | | |  | | | | | | |  | | |  | | |  | |  | |  | |  | | |
|  | | 1979-80, 1982-1990 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 1991-2000 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 2001-2010 | | | | | | | | | | | |
| **Job group** | | **Deaths Obs** | | **Deaths Exp** | | | **PMR** | | | | | | | **L CL** | | | | | **U CL** | | | | | | | | | | | | | | | | | | | | **Deaths Obs** | | | | | | | | | | | | | | | | | | | | **Deaths Exp** | | | | | | | | | | | | | | | | **PMR** | | | | | | | | | | | | | | | | **L CL** | | | | | | **U CL** | | | **Deaths Obs** | | | **Deaths Exp** | | **PMR** | | **L CL** | | **U CL** | | |
| Aircraft Flight Deck Officers | | 44 | | 0.6 | | | 7871 | | | | | | | 5719 | | | | | 10567 | | | | | | | | | | | | | | | | | | | | 33 | | | | | | | | | | | | | | | | | | | | 0.4 | | | | | | | | | | | | | | | | 8386 | | | | | | | | | | | | | | | | 5773 | | | | | | 11776 | | | 12 | | | 0.2 | | 5298 | | 2737 | | 9255 | | |
| Armed Forces (unadjusted) | | 72 | | 6.3 | | | 1141 | | | | | | | 893 | | | | | 1436 | | | | | | | | | | | | | | | | | | | | 22 | | | | | | | | | | | | | | | | | | | | 1.9 | | | | | | | | | | | | | | | | 1145 | | | | | | | | | | | | | | | | 718 | | | | | | 1733 | | | 5 | | | 0.9 | | 582 | | 189 | | 1359 | | |
| Total | | 116 | | 6.9 | | |  | | | | | | |  | | | | |  | | | | | | | | | | | | | | | | | | | | 55 | | | | | | | | | | | | | | | | | | | | 2.3 | | | | | | | | | | | | | | | |  | | | | | | | | | | | | | | | |  | | | | | |  | | | 17 | | | 1.1 | |  | |  | |  | | |
|  | |  | |  | | |  | | | | | | |
| **Pesticide poisoning** | |  | |  | | |  | | | | | | |
|  | | 1979-80, 1982-1990 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 1991-2000 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 2001-2010 | | | | | | | | | | | |
| **Job group** | | **Deaths Obs** | | **Deaths Exp** | | | **PMR** | | | | | | | **L CL** | | | | | **U CL** | | | | | | | | | | | | | | | | | | | | | **Deaths Obs** | | | | | | | | | | | | | | | | | | | | **Deaths Exp** | | | | | | | | | | | | | | | | **PMR** | | | | | | | | | | | | | | | | **L CL** | | | | | **U CL** | | | **Deaths Obs** | | | **Deaths Exp** | | **PMR** | | **L CL** | | **U CL** | | |
| Farming and fishing combined | | 3 | | 0.2 | | | 1911 | | | | | | | 395 | | | | | 5586 | | | | | | | | | | | | | | | | | | | | | 4 | | | | | | | | | | | | | | | | | | | | 0.3 | | | | | | | | | | | | | | | | 1352 | | | | | | | | | | | | | | | | 368 | | | | | 3461 | | | 1 | | | 0.1 | | 944 | | 28 | | 5259 | | |
| Forestry Workers | | 1 | | 0.0 | | | 14286 | | | | | | | 429 | | | | | 79571 | | | | | | | | | | | | | | | | | | | | | 0 | | | | | | | | | | | | | | | | | | | | 0.0 | | | | | | | | | | | | | | | |  | | | | | | | | | | | | | | | |  | | | | |  | | | 0 | | | 0.0 | | 0 | | 0 | | 1153740 | | |
| Total | | 4 | | 0.2 | | |  | | | | | | |  | | | | |  | | | | | | | | | | | | | | | | | | | | | 4 | | | | | | | | | | | | | | | | | | | | 0.3 | | | | | | | | | | | | | | | |  | | | | | | | | | | | | | | | |  | | | | |  | | | 1 | | | 0.1 | |  | |  | |  | | |
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| **Poisoning by other gases and vapours combined** | |  | |  | | |  | | | | | | |  | | | | |  | | | | | | | | | | | | | | | | | | | | |  | | | | | | | | | | | | | | | | | | | |  | | | | | | | | | | | | | | | |  | | | | | | | | | | | | | | | |  | | | | |  | | |
|  | | 1979-80, 1982-1990 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 1991-2000 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 2001-2010 | | | | | | | | | | | |
| **Job group** | | **Deaths Obs** | | **Deaths Exp** | | | **PMR** | | | | | | | **L CL** | | | | | | **U CL** | | | | | | | | | | | | | | | | | | | | | **Deaths Obs** | | | | | | | | | | | | | | | | | | | | **Deaths Exp** | | | | | | | | | | | | | | | | **PMR** | | | | | | | | | | | | | | | **L CL** | | | | | **U CL** | | | **Deaths Obs** | | | **Deaths Exp** | | **PMR** | | **L CL** | | **U CL** | | |
| Farming and fishing combined | | 15 | | 18.3 | | | 82 | | | | | | | 46 | | | | | | 135 | | | | | | | | | | | | | | | | | | | | | 11 | | | | | | | | | | | | | | | | | | | | 8.7 | | | | | | | | | | | | | | | | 126 | | | | | | | | | | | | | | | 63 | | | | | 226 | | | 9 | | | 6.6 | | 137 | | 63 | | 260 | | |
| Chemical workers combined | | 10 | | 6.5 | | | 155 | | | | | | | 74 | | | | | | 285 | | | | | | | | | | | | | | | | | | | | | 2 | | | | | | | | | | | | | | | | | | | | 1.5 | | | | | | | | | | | | | | | | 131 | | | | | | | | | | | | | | | 16 | | | | | 472 | | | 1 | | | 0.7 | | 134 | | 4 | | 747 | | |
| Motor Mechanics, Auto Engineers combined | | 14 | | 10.4 | | | 135 | | | | | | | 74 | | | | | | 226 | | | | | | | | | | | | | | | | | | | | | 4 | | | | | | | | | | | | | | | | | | | | 4.5 | | | | | | | | | | | | | | | | 88 | | | | | | | | | | | | | | | 24 | | | | | 226 | | | 6 | | | 3.7 | | 164 | | 60 | | 358 | | |
| Plumbers, Heating & Ventilating Engineers & Related Trades | | 14 | | 8.6 | | | 162 | | | | | | | 89 | | | | | | 272 | | | | | | | | | | | | | | | | | | | | | 7 | | | | | | | | | | | | | | | | | | | | 3.6 | | | | | | | | | | | | | | | | 195 | | | | | | | | | | | | | | | 78 | | | | | 402 | | | 5 | | | 3.2 | | 156 | | 51 | | 365 | | |
| Total | | 53 | | 43.8 | | |  | | | | | | |  | | | | | |  | | | | | | | | | | | | | | | | | | | | | 24 | | | | | | | | | | | | | | | | | | | | 18.4 | | | | | | | | | | | | | | | |  | | | | | | | | | | | | | | |  | | | | |  | | | 21 | | | 14.2 | |  | |  | |  | | |
|  | |  | |  | | |  | | | | | | |  | | | | | |  | | | | | | | | | | | | | | | | | | | | |  | | | | | | | | | | | | | | | | | | | |  | | | | | | | | | | | | | | | |  | | | | | | | | | | | | | | |  | | | | |  | | |  | | |  | |  | |  | |  | | |
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| **Fall from ladder or scaffolding** | |  | |  | | |  | | | | | | |  | | | | | |  | | | | | | | | | | | | | | | | | | | | |  | | | | | | | | | | | | | | | | | | | |  | | | | | | | | | | | | | | | |  | | | | | | | | | | | | | | |  | | | | |  | | |
|  | | 1979-80, 1982-1990 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 1991-2000 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 2001-2010 | | | | | | | | | | | |
| **Job group** | | **Deaths Obs** | | **Deaths Exp** | | | **PMR** | | | | | | | **L CL** | | | | | | | | **U CL** | | | | | | | | | | | | | | | | | | | | | **Deaths Obs** | | | | | | | | | | | | | | | | | | | | **Deaths Exp** | | | | | | | | | | | | | | | | **PMR** | | | | | | | | | | | | | | | | **L CL** | | **U CL** | | | **Deaths Obs** | | | **Deaths Exp** | | **PMR** | | **L CL** | | **U CL** | | |
| Other service personnel combined | | 38 | | 15.7 | | | 241 | | | | | | | 171 | | | | | | | | 331 | | | | | | | | | | | | | | | | | | | | | 26 | | | | | | | | | | | | | | | | | | | | 9.4 | | | | | | | | | | | | | | | | 278 | | | | | | | | | | | | | | | | 181 | | 407 | | | 17 | | | 5.1 | | 332 | | 193 | | 531 | | |
| Carpenters & Joiners | | 27 | | 13.1 | | | 207 | | | | | | | 136 | | | | | | | | 301 | | | | | | | | | | | | | | | | | | | | | 11 | | | | | | | | | | | | | | | | | | | | 8.1 | | | | | | | | | | | | | | | | 136 | | | | | | | | | | | | | | | | 68 | | 244 | | | 10 | | | 7.3 | | 136 | | 65 | | 251 | | |
| Plumbers, Heating & Ventilating Engineers & Related Trades | | 18 | | 9.1 | | | 198 | | | | | | | 117 | | | | | | | | 313 | | | | | | | | | | | | | | | | | | | | | 7 | | | | | | | | | | | | | | | | | | | | 5.4 | | | | | | | | | | | | | | | | 130 | | | | | | | | | | | | | | | | 52 | | 267 | | | 4 | | | 3.1 | | 130 | | 35 | | 333 | | |
| Steel Erectors | | 20 | | 2.2 | | | 903 | | | | | | | 552 | | | | | | | | 1395 | | | | | | | | | | | | | | | | | | | | | 6 | | | | | | | | | | | | | | | | | | | | 1.2 | | | | | | | | | | | | | | | | 495 | | | | | | | | | | | | | | | | 182 | | 1078 | | | 2 | | | 0.3 | | 668 | | 80 | | 2411 | | |
| Scaffolders, Riggers combined | | 41 | | 2.5 | | | 1644 | | | | | | | 1180 | | | | | | | | 2230 | | | | | | | | | | | | | | | | | | | | | 10 | | | | | | | | | | | | | | | | | | | | 1.2 | | | | | | | | | | | | | | | | 864 | | | | | | | | | | | | | | | | 415 | | 1589 | | | 4 | | | 0.7 | | 600 | | 163 | | 1535 | | |
| Painters & Decorators | | 53 | | 13.9 | | | 380 | | | | | | | 285 | | | | | | | | 498 | | | | | | | | | | | | | | | | | | | | | 33 | | | | | | | | | | | | | | | | | | | | 7.7 | | | | | | | | | | | | | | | | 426 | | | | | | | | | | | | | | | | 293 | | 598 | | | 13 | | | 7.2 | | 181 | | 97 | | 310 | | |
| Bricklayers, Masons combined | | 19 | | 7.5 | | | 253 | | | | | | | 153 | | | | | | | | 396 | | | | | | | | | | | | | | | | | | | | | 6 | | | | | | | | | | | | | | | | | | | | 3.7 | | | | | | | | | | | | | | | | 162 | | | | | | | | | | | | | | | | 59 | | 352 | | | 3 | | | 2.8 | | 106 | | 22 | | 311 | | |
| Roofers and Glaziers | | 26 | | 3.5 | | | 743 | | | | | | | 485 | | | | | | | | 1088 | | | | | | | | | | | | | | | | | | | | | 7 | | | | | | | | | | | | | | | | | | | | 1.9 | | | | | | | | | | | | | | | | 372 | | | | | | | | | | | | | | | | 149 | | 767 | | | 14 | | | 2.4 | | 577 | | 315 | | 969 | | |
| Other construction workers combined | | 79 | | 29.2 | | | 271 | | | | | | | 214 | | | | | | | | 337 | | | | | | | | | | | | | | | | | | | | | 32 | | | | | | | | | | | | | | | | | | | | 16.5 | | | | | | | | | | | | | | | | 194 | | | | | | | | | | | | | | | | 133 | | 274 | | | 23 | | | 17.6 | | 131 | | 83 | | 196 | | |
| Total | | 321 | | 96.7 | | |  | | | | | | |  | | | | | | | |  | | | | | | | | | | | | | | | | | | | | | 138 | | | | | | | | | | | | | | | | | | | | 55.0 | | | | | | | | | | | | | | | |  | | | | | | | | | | | | | | | |  | |  | | | 90 | | | 46.5 | |  | |  | |  | | |
|  | |  | |  | | |  | | | | | | |  | | | | | | | |  | | | | | | | | | | | | | | | | | | | | |  | | | | | | | | | | | | | | | | | | | |  | | | | | | | | | | | | | | | |  | | | | | | | | | | | | | | | |  | |  | | |  | | |  | |  | |  | |  | | |
| **Fall from building** | |  | |  | | |  | | | | | | |  | | | | | | | |  | | | | | | | | | | | | | | | | | | | | |  | | | | | | | | | | | | | | | | | | | |  | | | | | | | | | | | | | | | |  | | | | | | | | | | | | | | | |  | |  | | |  | | |  | |  | |  | |  | | |
|  | | 1979-80, 1982-1990 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 1991-2000 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 2001-2010 | | | | | | | | | | | |
| **Job group** | | **Deaths Obs** | | **Deaths Exp** | | | **PMR** | | | | | | | **L CL** | | | | | | | | | **U CL** | | | | | | | | | | | | | | | | | | | | **Deaths Obs** | | | | | | | | | | | | | | | | | | | | **Deaths Exp** | | | | | | | | | | | | | | | | **PMR** | | | | | | | | | | | | | | **L CL** | | | | **U CL** | | | **Deaths Obs** | | | **Deaths Exp** | | **PMR** | | **L CL** | | **U CL** | | |
| Managers in Construction | | 5 | | 1.4 | | | 351 | | | | | | | 114 | | | | | | | | | 818 | | | | | | | | | | | | | | | | | | | | 0 | | | | | | | | | | | | | | | | | | | | 1.2 | | | | | | | | | | | | | | | | 0 | | | | | | | | | | | | | | 0 | | | | 319 | | | 3 | | | 1.6 | | 185 | | 38 | | 540 | | |
| Other service personnel combined | | 39 | | 25.0 | | | 156 | | | | | | | 111 | | | | | | | | | 213 | | | | | | | | | | | | | | | | | | | | 23 | | | | | | | | | | | | | | | | | | | | 14.1 | | | | | | | | | | | | | | | | 163 | | | | | | | | | | | | | | 103 | | | | 244 | | | 8 | | | 9.5 | | 84 | | 36 | | 166 | | |
| Carpenters & Joiners | | 35 | | 15.6 | | | 225 | | | | | | | 157 | | | | | | | | | 313 | | | | | | | | | | | | | | | | | | | | 9 | | | | | | | | | | | | | | | | | | | | 8.7 | | | | | | | | | | | | | | | | 104 | | | | | | | | | | | | | | 47 | | | | 197 | | | 13 | | | 13.1 | | 99 | | 53 | | 170 | | |
| Cable Jointers, Lines Repairers | | 6 | | 0.9 | | | 691 | | | | | | | 253 | | | | | | | | | 1505 | | | | | | | | | | | | | | | | | | | | 6 | | | | | | | | | | | | | | | | | | | | 0.4 | | | | | | | | | | | | | | | | 1476 | | | | | | | | | | | | | | 541 | | | | 3213 | | | 0 | | | 0.2 | | 0 | | 0 | | 1954 | | |
| Plumbers, Heating & Ventilating Engineers & Related Trades | | 20 | | 10.5 | | | 190 | | | | | | | 116 | | | | | | | | | 293 | | | | | | | | | | | | | | | | | | | | 6 | | | | | | | | | | | | | | | | | | | | 5.1 | | | | | | | | | | | | | | | | 117 | | | | | | | | | | | | | | 43 | | | | 256 | | | 4 | | | 4.8 | | 83 | | 23 | | 213 | | |
| Steel Erectors | | 30 | | 2.4 | | | 1238 | | | | | | | 835 | | | | | | | | | 1767 | | | | | | | | | | | | | | | | | | | | 9 | | | | | | | | | | | | | | | | | | | | 1.2 | | | | | | | | | | | | | | | | 741 | | | | | | | | | | | | | | 339 | | | | 1405 | | | 2 | | | 0.7 | | 298 | | 36 | | 1077 | | |
| Scaffolders, Riggers combined | | 17 | | 4.7 | | | 360 | | | | | | | 209 | | | | | | | | | 576 | | | | | | | | | | | | | | | | | | | | 5 | | | | | | | | | | | | | | | | | | | | 2.1 | | | | | | | | | | | | | | | | 242 | | | | | | | | | | | | | | 79 | | | | 566 | | | 8 | | | 1.9 | | 426 | | 184 | | 839 | | |
| Painters & Decorators | | 23 | | 16.4 | | | 140 | | | | | | | 89 | | | | | | | | | 210 | | | | | | | | | | | | | | | | | | | | 14 | | | | | | | | | | | | | | | | | | | | 8.2 | | | | | | | | | | | | | | | | 170 | | | | | | | | | | | | | | 93 | | | | 285 | | | 16 | | | 12.1 | | 132 | | 75 | | 214 | | |
| Bricklayers, Masons combined | | 16 | | 8.6 | | | 187 | | | | | | | 107 | | | | | | | | | 303 | | | | | | | | | | | | | | | | | | | | 7 | | | | | | | | | | | | | | | | | | | | 4.0 | | | | | | | | | | | | | | | | 176 | | | | | | | | | | | | | | 71 | | | | 362 | | | 4 | | | 5.1 | | 78 | | 21 | | 199 | | |
| Roofers and Glaziers | | 116 | | 9.2 | | | 1258 | | | | | | | 1040 | | | | | | | | | 1509 | | | | | | | | | | | | | | | | | | | | 36 | | | | | | | | | | | | | | | | | | | | 4.1 | | | | | | | | | | | | | | | | 875 | | | | | | | | | | | | | | 612 | | | | 1211 | | | 20 | | | 5.9 | | 336 | | 205 | | 519 | | |
| Other construction workers combined | | 109 | | 48.4 | | | 225 | | | | | | | 185 | | | | | | | | | 272 | | | | | | | | | | | | | | | | | | | | 49 | | | | | | | | | | | | | | | | | | | | 21.9 | | | | | | | | | | | | | | | | 224 | | | | | | | | | | | | | | 165 | | | | 296 | | | 62 | | | 35.8 | | 173 | | 133 | | 222 | | |
| Total | | 416 | | 143.1 | | |  | | | | | | |  | | | | | | | | |  | | | | | | | | | | | | | | | | | | | | 164 | | | | | | | | | | | | | | | | | | | | 71.0 | | | | | | | | | | | | | | | |  | | | | | | | | | | | | | |  | | | |  | | | 140 | | | 90.8 | |  | |  | |  | | |
|  | |  | |  | | |  | | | | | | |  | | | | | | | | |  | | | | | | | | | | | | | | | | | | | |  | | | | | | | | | | | | | | | | | | | |  | | | | | | | | | | | | | | | |  | | | | | | | | | | | | | |  | | | |  | | |  | | |  | |  | |  | |  | | |
| **Fall into hole** | |  | |  | | |  | | | | | | |  | | | | | | | | |  | | | | | | | | | | | | | | | | | | | |  | | | | | | | | | | | | | | | | | | | |  | | | | | | | | | | | | | | | |  | | | | | | | | | | | | | |  | | | |  | | |  | | |  | |  | |  | |  | | |
|  | | 1979-80, 1982-1990 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 1991-2000 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 2001-2010 | | | | | | | | | | | |
| **Job group** | | **Deaths Obs** | | **Deaths Exp** | | | **PMR** | | | | | | | **L CL** | | | | | | | | | | | **U CL** | | | | | | | | | | | | | | | | | | | | **Deaths Obs** | | | | | | | | | | | | | | | | | | | | **Deaths Exp** | | | | | | | | | | | | | | | **PMR** | | | | | | | | | | | | | | | **L CL** | | **U CL** | | | **Deaths Obs** | | | **Deaths Exp** | | **PMR** | | **L CL** | | **U CL** | | |
| Other construction workers combined | | 21 | | 5.2 | | | 404 | | | | | | | 250 | | | | | | | | | | | 617 | | | | | | | | | | | | | | | | | | | | 4 | | | | | | | | | | | | | | | | | | | | 2.1 | | | | | | | | | | | | | | | 193 | | | | | | | | | | | | | | | 53 | | 495 | | | 6 | | | 8.0 | | 75 | | 27 | | 163 | | |
| Dockers goods porters and slingers combined | | 1 | | 0.9 | | | 109 | | | | | | | 3 | | | | | | | | | | | 606 | | | | | | | | | | | | | | | | | | | | 2 | | | | | | | | | | | | | | | | | | | | 0.4 | | | | | | | | | | | | | | | 542 | | | | | | | | | | | | | | | 65 | | 1956 | | | 1 | | | 0.1 | | 726 | | 22 | | 4042 | | |
| Total | | 22 | | 6.1 | | |  | | | | | | |  | | | | | | | | | | |  | | | | | | | | | | | | | | | | | | | | 6 | | | | | | | | | | | | | | | | | | | | 2.4 | | | | | | | | | | | | | | |  | | | | | | | | | | | | | | |  | |  | | | 7 | | | 8.2 | |  | |  | |  | | |
|  | |  | |  | | |  | | | | | | |  | | | | | | | | | | |  | | | | | | | | | | | | | | | | | | | |  | | | | | | | | | | | | | | | | | | | |  | | | | | | | | | | | | | | |  | | | | | | | | | | | | | | |  | |  | | |  | | |  | |  | |  | |  | | |
|  | |  | |  | | |  | | | | | | |  | | | | | | | | | | |  | | | | | | | | | | | | | | | | | | | |  | | | | | | | | | | | | | | | | | | | |  | | | | | | | | | | | | | | |  | | | | | | | | | | | | | | |  | |  | | |  | | |  | |  | |  | |  | | |
|  | |  | |  | | |  | | | | | | |  | | | | | | | | | | |  | | | | | | | | | | | | | | | | | | | |  | | | | | | | | | | | | | | | | | | | |  | | | | | | | | | | | | | | |  | | | | | | | | | | | | | | |  | |  | | |  | | |  | |  | |  | |  | | |
| **Other fall** | |  | |  | | |  | | | | | | |  | | | | | | | | | | |  | | | | | | | | | | | | | | | | | | | |  | | | | | | | | | | | | | | | | | | | |  | | | | | | | | | | | | | | |  | | | | | | | | | | | | | | |  | |  | | |  | | |  | |  | |  | |  | | |
|  | | 1979-80, 1982-1990 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 1991-2000 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 2001-2010 | | | | | | | | | | | |
| **Job group** | | **Deaths Obs** | | **Deaths Exp** | | | **PMR** | | | | | | | **L CL** | | | | | | | | | | | | | **U CL** | | | | | | | | | | | | | | | | | | | **Deaths Obs** | | | | | | | | | | | | | | | | | | | | **Deaths Exp** | | | | | | | | | | | | | | | | | **PMR** | | | | | | | | | | | | **L CL** | | **U CL** | | | **Deaths Obs** | | | **Deaths Exp** | | **PMR** | | **L CL** | | **U CL** | | |
| Farming and fishing combined | | 18 | | 12.6 | | | 143 | | | | | | | 85 | | | | | | | | | | | | | 226 | | | | | | | | | | | | | | | | | | | 21 | | | | | | | | | | | | | | | | | | | | 9.8 | | | | | | | | | | | | | | | | | 214 | | | | | | | | | | | | 133 | | 327 | | | 12 | | | 4.9 | | 246 | | 127 | | 429 | | |
| Fire Service Personnel | | 4 | | 0.9 | | | 463 | | | | | | | 126 | | | | | | | | | | | | | 1187 | | | | | | | | | | | | | | | | | | | 1 | | | | | | | | | | | | | | | | | | | | 0.6 | | | | | | | | | | | | | | | | | 161 | | | | | | | | | | | | 5 | | 894 | | | 2 | | | 0.6 | | 311 | | 37 | | 1122 | | |
| Cable Jointers, Lines Repairers | | 1 | | 0.4 | | | 227 | | | | | | | 7 | | | | | | | | | | | | | 1263 | | | | | | | | | | | | | | | | | | | 2 | | | | | | | | | | | | | | | | | | | | 0.2 | | | | | | | | | | | | | | | | | 921 | | | | | | | | | | | | 111 | | 3326 | | | 0 | | | 0.1 | | 0 | | 0 | | 3175 | | |
| Steel Erectors | | 8 | | 1.2 | | | 672 | | | | | | | 290 | | | | | | | | | | | | | 1323 | | | | | | | | | | | | | | | | | | | 3 | | | | | | | | | | | | | | | | | | | | 0.7 | | | | | | | | | | | | | | | | | 456 | | | | | | | | | | | | 94 | | 1332 | | | 0 | | | 0.3 | | 0 | | 0 | | 1350 | | |
| Scaffolders, Riggers combined | | 4 | | 1.4 | | | 280 | | | | | | | 76 | | | | | | | | | | | | | 717 | | | | | | | | | | | | | | | | | | | 3 | | | | | | | | | | | | | | | | | | | | 1.0 | | | | | | | | | | | | | | | | | 305 | | | | | | | | | | | | 63 | | 891 | | | 1 | | | 0.6 | | 161 | | 5 | | 899 | | |
| Painters & Decorators | | 16 | | 7.9 | | | 203 | | | | | | | 116 | | | | | | | | | | | | | 329 | | | | | | | | | | | | | | | | | | | 5 | | | | | | | | | | | | | | | | | | | | 4.4 | | | | | | | | | | | | | | | | | 114 | | | | | | | | | | | | 37 | | 267 | | | 3 | | | 2.9 | | 102 | | 21 | | 298 | | |
| Lorry drivers | | 35 | | 19.1 | | | 183 | | | | | | | 127 | | | | | | | | | | | | | 254 | | | | | | | | | | | | | | | | | | | 20 | | | | | | | | | | | | | | | | | | | | 9.7 | | | | | | | | | | | | | | | | | 205 | | | | | | | | | | | | 125 | | 317 | | | 4 | | | 6.7 | | 59 | | 16 | | 152 | | |
| Crane Drivers | | 5 | | 1.8 | | | 282 | | | | | | | 91 | | | | | | | | | | | | | 657 | | | | | | | | | | | | | | | | | | | 0 | | | | | | | | | | | | | | | | | | | | 0.5 | | | | | | | | | | | | | | | | | 0 | | | | | | | | | | | | 0 | | 728 | | | 0 | | | 0.3 | | 0 | | 0 | | 1085 | | |
| Total | | 91 | | 45.3 | | |  | | | | | | |  | | | | | | | | | | | | |  | | | | | | | | | | | | | | | | | | | 55 | | | | | | | | | | | | | | | | | | | | 26.9 | | | | | | | | | | | | | | | | |  | | | | | | | | | | | |  | |  | | | 22 | | | 16.6 | |  | |  | |  | | |
|  | |  | |  | | |  | | | | | | |
| **Slipping and tripping** | |  | |  | | |  | | | | | | |
|  | | 1979-80, 1982-1990 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 1991-2000 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 2001-2010 | | | | | | | | | | | |
| **Job group** | | **Deaths Obs** | | **Deaths Exp** | | | **PMR** | | | | | | | **L CL** | | | | | | | | | | | | | | | **U CL** | | | | | | | | | | | | | | | | | | | **Deaths Obs** | | | | | | | | | | | | | | | | | | **Deaths Exp** | | | | | | | | | | | | | | | | | **PMR** | | | | | | | | | | | | **L CL** | | **U CL** | | | **Deaths Obs** | | | **Deaths Exp** | | **PMR** | | **L CL** | | **U CL** | | |
| Farming and fishing combined | | 8 | | 3.2 | | | 250 | | | | | | | 108 | | | | | | | | | | | | | | | 492 | | | | | | | | | | | | | | | | | | | 4 | | | | | | | | | | | | | | | | | | 2.7 | | | | | | | | | | | | | | | | | 146 | | | | | | | | | | | | 40 | | 374 | | | 5 | | | 1.9 | | 262 | | 85 | | 612 | | |
| Scaffolders, Riggers combined | | 0 | | 0.3 | | | 0 | | | | | | | 0 | | | | | | | | | | | | | | | 1160 | | | | | | | | | | | | | | | | | | | 3 | | | | | | | | | | | | | | | | | | 0.3 | | | | | | | | | | | | | | | | | 978 | | | | | | | | | | | | 202 | | 2859 | | | 0 | | | 0.3 | | 0 | | 0 | | 1146 | | |
| Bricklayers, Masons combined | | 4 | | 1.2 | | | 327 | | | | | | | 89 | | | | | | | | | | | | | | | 837 | | | | | | | | | | | | | | | | | | | 1 | | | | | | | | | | | | | | | | | | 0.7 | | | | | | | | | | | | | | | | | 141 | | | | | | | | | | | | 4 | | 788 | | | 2 | | | 0.7 | | 283 | | 34 | | 1023 | | |
| Total | | 12 | | 4.7 | | |  | | | | | | |  | | | | | | | | | | | | | | |  | | | | | | | | | | | | | | | | | | | 8 | | | | | | | | | | | | | | | | | | 3.8 | | | | | | | | | | | | | | | | |  | | | | | | | | | | | |  | |  | | | 7 | | | 2.9 | |  | |  | |  | | |
|  | |  | |  | | |  | | | | | | |
| **Fall unspecified** | |  | |  | | |  | | | | | | |
|  | | 1979-80, 1982-1990 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 1991-2000 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 2001-2010 | | | | | | | | | | | |
| **Job group** | | **Deaths Obs** | | **Deaths Exp** | | | **PMR** | | | | | | | **L CL** | | | | | | | | | | | | | | | | | **U CL** | | | | | | | | | | | | | | | | | | | **Deaths Obs** | | | | | | | | | | | | | | | | | | | **Deaths Exp** | | | | | | | | | | | | | | | | | **PMR** | | | | | | | | | **L CL** | | **U CL** | | | **Deaths Obs** | | | **Deaths Exp** | | **PMR** | | **L CL** | | **U CL** | | |
| Steel Erectors | | 6 | | 2.6 | | | 234 | | | | | | | 86 | | | | | | | | | | | | | | | | | 509 | | | | | | | | | | | | | | | | | | | 7 | | | | | | | | | | | | | | | | | | | 2.4 | | | | | | | | | | | | | | | | | 290 | | | | | | | | | 117 | | 598 | | | 1 | | | 2.3 | | 43 | | 1 | | 239 | | |
| Painters & Decorators | | 25 | | 15.9 | | | 157 | | | | | | | 102 | | | | | | | | | | | | | | | | | 232 | | | | | | | | | | | | | | | | | | | 20 | | | | | | | | | | | | | | | | | | | 15.7 | | | | | | | | | | | | | | | | | 128 | | | | | | | | | 78 | | 197 | | | 29 | | | 23.2 | | 125 | | 84 | | 180 | | |
| Bricklayers, Masons combined | | 11 | | 8.7 | | | 126 | | | | | | | 63 | | | | | | | | | | | | | | | | | 226 | | | | | | | | | | | | | | | | | | | 18 | | | | | | | | | | | | | | | | | | | 7.5 | | | | | | | | | | | | | | | | | 241 | | | | | | | | | 143 | | 382 | | | 9 | | | 9.9 | | 91 | | 42 | | 172 | | |
| Roofers and Glaziers | | 5 | | 3.9 | | | 129 | | | | | | | 42 | | | | | | | | | | | | | | | | | 301 | | | | | | | | | | | | | | | | | | | 10 | | | | | | | | | | | | | | | | | | | 5.1 | | | | | | | | | | | | | | | | | 198 | | | | | | | | | 95 | | 364 | | | 10 | | | 10.6 | | 95 | | 45 | | 174 | | |
| Other construction workers combined | | 47 | | 47.6 | | | 99 | | | | | | | 73 | | | | | | | | | | | | | | | | | 131 | | | | | | | | | | | | | | | | | | | 50 | | | | | | | | | | | | | | | | | | | 44.7 | | | | | | | | | | | | | | | | | 112 | | | | | | | | | 83 | | 147 | | | 113 | | | 92.7 | | 122 | | 100 | | 147 | | |
| Total | | 94 | | 78.6 | | |  | | | | | | |  | | | | | | | | | | | | | | | | |  | | | | | | | | | | | | | | | | | | | 105 | | | | | | | | | | | | | | | | | | | 75.3 | | | | | | | | | | | | | | | | |  | | | | | | | | |  | |  | | | 162 | | | 138.7 | |  | |  | |  | | |
|  | |  | |  | | |  | | | | | | |
| **Injured by fire** | |  | |  | | |  | | | | | | |
|  | | 1979-80, 1982-1990 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 1991-2000 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 2001-2010 | | | | | | | | | | | |
| **Job group** | | **Deaths Obs** | | **Deaths Exp** | | | **PMR** | | | | | | | **L CL** | | | | | | | | | | | | | | | | | | | **U CL** | | | | | | | | | | | | | | | | | **Deaths Obs** | | | | | | | | | | | | | | | | | | | **Deaths Exp** | | | | | | | | | | | | | | | | | **PMR** | | | | | | | | | **L CL** | | **U CL** | | | **Deaths Obs** | | | **Deaths Exp** | | **PMR** | | **L CL** | | **U CL** | | |
| Fire Service Personnel | | 8 | | 1.8 | | | 438 | | | | | | | 189 | | | | | | | | | | | | | | | | | | | 864 | | | | | | | | | | | | | | | | | 5 | | | | | | | | | | | | | | | | | | | 1.8 | | | | | | | | | | | | | | | | | 274 | | | | | | | | | 89 | | 640 | | | 1 | | | 1.3 | | 76 | | 2 | | 423 | | |
|  | |  | |  | | |  | | | | | | |
| **Heat injury** | |  | |  | | |  | | | | | | |
|  | | 1979-80, 1982-1990 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 1991-2000 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 2001-2010 | | | | | | | | | |
| **Job group** | | **Deaths Obs** | | **Deaths Exp** | | | **PMR** | | | | | | | **L CL** | | | | | | | | | | | | | | | | | | | | | | **U CL** | | | | | | | | | | | | | | | | | **Deaths Obs** | | | | | | | | | | | | | | | | | | **Deaths Exp** | | | | | | | | | | | | | | | | | **PMR** | | | | | | | **L CL** | | **U CL** | | | **Deaths Obs** | | | **Deaths Exp** | | **PMR** | | **L CL** | | **U CL** | | |
| Armed Forces (unadjusted) | | 4 | | 0.2 | | | 1646 | | | | | | | 449 | | | | | | | | | | | | | | | | | | | | | | 4214 | | | | | | | | | | | | | | | | | 2 | | | | | | | | | | | | | | | | | | 0.1 | | | | | | | | | | | | | | | | | 1827 | | | | | | | 219 | | 6595 | | | 0 | | | 0.1 | | 0 | | 0 | | 6219 | | |
|  | |  | |  | | |  | | | | | | |
| **Injury by animals and plants combined** | |  | |  | | |
|  | | 1979-80, 1982-1990 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 1991-2000 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 2001-2010 | | | | | | | | | |
| **Job group** | | **Deaths Obs** | | **Deaths Exp** | | | **PMR** | | | | | | | **L CL** | | | | | | | | | | | | | | | | | | | | | | **U CL** | | | | | | | | | | | | | | | | | **Deaths Obs** | | | | | | | | | | | | | | | | | | **Deaths Exp** | | | | | | | | | | | | | | | | | **PMR** | | | | | | | **L CL** | | **U CL** | | | **Deaths Obs** | | | **Deaths Exp** | | **PMR** | | **L CL** | | **U CL** | | |
| Farming and fishing combined | | 17 | | 2.2 | | | 766 | | | | | | | 446 | | | | | | | | | | | | | | | | | | | | | | 1227 | | | | | | | | | | | | | | | | | 16 | | | | | | | | | | | | | | | | | | 1.6 | | | | | | | | | | | | | | | | | 1004 | | | | | | | 574 | | 1630 | | | 11 | | | 1.3 | | 878 | | 438 | | 1570 | | |
|  | |  | |  | | |  | | | | | | |  | | | | | | | | | | | | | | | | | | | | | |
|  | |  | |  | | |  | | | | | | |
| **Injury by lightning** | |  | |  | | |  | | | | | | |
|  | | 1979-80, 1982-1990 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 1991-2000 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 2001-2010 | | | | | | | | | |
| **Job group** | | **Deaths Obs** | | **Deaths Exp** | | | **PMR** | | | | | | | **L CL** | | | | | | | | | | | | | | | | | | | | | | **U CL** | | | | | | | | | | | | | | | | | **Deaths Obs** | | | | | | | | | | | | | | | | | | **Deaths Exp** | | | | | | | | | | | | | | | | | **PMR** | | | | | | | **L CL** | | **U CL** | | | **Deaths Obs** | | | **Deaths Exp** | | **PMR** | | **L CL** | | **U CL** | | |
| Farming and fishing combined | | 3 | | 0.9 | | | 348 | | | | | | | 72 | | | | | | | | | | | | | | | | | | | | | | 1017 | | | | | | | | | | | | | | | | | 3 | | | | | | | | | | | | | | | | | | 0.6 | | | | | | | | | | | | | | | | | 489 | | | | | | | 101 | | 1428 | | | 0 | | | 0.0 | | 0 | | 0 | | 11698 | | |
|  | |  | |  | | |  | | | | | | |
|  | |  | |  | | |  | | | | | | |
| **Injury by falling, thrown or projected object** | |  | |  | | |
|  | | 1979-80, 1982-1990 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 1991-2000 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 2001-2010 | | | | | | | | | |
| **Job group** | | **Deaths Obs** | | **Deaths Exp** | | | **PMR** | | | | | | | | **L CL** | | | | | | | | | | | | | | | | | | | | | **U CL** | | | | | | | | | | | | | | | | | **Deaths Obs** | | | | | | | | | | | | | | | | | | **Deaths Exp** | | | | | | | | | | | | | | | | | **PMR** | | | | | | | **L CL** | | **U CL** | | | **Deaths Obs** | | | **Deaths Exp** | | **PMR** | | **L CL** | | **U CL** | | |
| Farming and fishing combined | | 31 | | 22.0 | | | 141 | | | | | | | | 96 | | | | | | | | | | | | | | | | | | | | | 200 | | | | | | | | | | | | | | | | | 17 | | | | | | | | | | | | | | | | | | 8.0 | | | | | | | | | | | | | | | | | 211 | | | | | | | 123 | | 338 | | | 14 | | | 6.4 | | 217 | | 119 | | 365 | | |
| Forestry Workers | | 14 | | 0.9 | | | 1641 | | | | | | | | 897 | | | | | | | | | | | | | | | | | | | | | 2754 | | | | | | | | | | | | | | | | | 5 | | | | | | | | | | | | | | | | | | 0.3 | | | | | | | | | | | | | | | | | 1565 | | | | | | | 507 | | 3653 | | | 2 | | | 0.1 | | 1761 | | 211 | | 6355 | | |
| Coal miners combined | | 54 | | 13.2 | | | 409 | | | | | | | | 307 | | | | | | | | | | | | | | | | | | | | | 534 | | | | | | | | | | | | | | | | | 12 | | | | | | | | | | | | | | | | | | 2.5 | | | | | | | | | | | | | | | | | 472 | | | | | | | 244 | | 825 | | | 0 | | | 1.0 | | 0 | | 0 | | 358 | | |
| Motor Mechanics, Auto Engineers combined | | 17 | | 10.0 | | | 170 | | | | | | | | 99 | | | | | | | | | | | | | | | | | | | | | 271 | | | | | | | | | | | | | | | | | 9 | | | | | | | | | | | | | | | | | | 5.2 | | | | | | | | | | | | | | | | | 172 | | | | | | | 79 | | 326 | | | 9 | | | 3.9 | | 229 | | 105 | | 435 | | |
| Steel Erectors | | 9 | | 2.1 | | | 426 | | | | | | | | 195 | | | | | | | | | | | | | | | | | | | | | 809 | | | | | | | | | | | | | | | | | 2 | | | | | | | | | | | | | | | | | | 1.1 | | | | | | | | | | | | | | | | | 185 | | | | | | | 22 | | 666 | | | 1 | | | 0.3 | | 318 | | 10 | | 1770 | | |
| Scaffolders, Riggers combined | | 8 | | 3.0 | | | 269 | | | | | | | | 116 | | | | | | | | | | | | | | | | | | | | | 530 | | | | | | | | | | | | | | | | | 4 | | | | | | | | | | | | | | | | | | 1.1 | | | | | | | | | | | | | | | | | 379 | | | | | | | 103 | | 970 | | | 1 | | | 0.8 | | 132 | | 4 | | 733 | | |
| Other construction workers combined | | 81 | | 32.0 | | | 253 | | | | | | | | 201 | | | | | | | | | | | | | | | | | | | | | 314 | | | | | | | | | | | | | | | | | 22 | | | | | | | | | | | | | | | | | | 14.0 | | | | | | | | | | | | | | | | | 157 | | | | | | | 99 | | 238 | | | 18 | | | 13.9 | | 129 | | 77 | | 204 | | |
| Mine (excluding coal) & Quarry Workers | | 8 | | 1.2 | | | 684 | | | | | | | | 295 | | | | | | | | | | | | | | | | | | | | | 1347 | | | | | | | | | | | | | | | | | 3 | | | | | | | | | | | | | | | | | | 0.3 | | | | | | | | | | | | | | | | | 1028 | | | | | | | 213 | | 3006 | | | 0 | | | 0.3 | | 0 | | 0 | | 1205 | | |
| Lorry drivers | | 62 | | 34.3 | | | 181 | | | | | | | | 139 | | | | | | | | | | | | | | | | | | | | | 232 | | | | | | | | | | | | | | | | | 39 | | | | | | | | | | | | | | | | | | 16.4 | | | | | | | | | | | | | | | | | 237 | | | | | | | 169 | | 324 | | | 17 | | | 8.0 | | 214 | | 124 | | 342 | | |
| Crane Drivers | | 2 | | 2.8 | | | 71 | | | | | | | | 8 | | | | | | | | | | | | | | | | | | | | | 255 | | | | | | | | | | | | | | | | | 4 | | | | | | | | | | | | | | | | | | 0.9 | | | | | | | | | | | | | | | | | 470 | | | | | | | 128 | | 1203 | | | 1 | | | 0.3 | | 323 | | 10 | | 1797 | | |
| Total | | 286 | | 121.5 | | |  | | | | | | | |  | | | | | | | | | | | | | | | | | | | | |  | | | | | | | | | | | | | | | | | 117 | | | | | | | | | | | | | | | | | | 49.9 | | | | | | | | | | | | | | | | |  | | | | | | |  | |  | | | 63 | | | 35.1 | |  | |  | |  | | |
|  | |  | |  | | |  | | | | | | | |
|  | |  | |  | | |  | | | | | | | |
| **Injury by being caught between objects** | |  | |  | | |
|  | | 1979-80, 1982-1990 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 1991-2000 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 2001-2010 | | | | | | | | | |
| **Job group** | **Deaths Obs** | | **Deaths Exp** | | | **PMR** | | | **L CL** | | | | | | | | | | | | **U CL** | | | | | | | | | | | | | | | | | | | | | **Deaths Obs** | | | | | | | | | | | | | | | | | | | | **Deaths Exp** | | | | | | | | | | | | | | | | **PMR** | | | | | | | | | | | | | | | | **L CL** | | **U CL** | | **Deaths Obs** | | | | **Deaths Exp** | | **PMR** | | **L CL** | | **U CL** | | | |
| Coal miners combined | 3 | | 1.0 | | | 292 | | | 60 | | | | | | | | | | | | 852 | | | | | | | | | | | | | | | | | | | | | 1 | | | | | | | | | | | | | | | | | | | | 0.4 | | | | | | | | | | | | | | | | 240 | | | | | | | | | | | | | | | | 7 | | 1339 | | 0 | | | | 0.2 | | 0 | | 0 | | 2126 | | | |
| Metal working machine operatives combined | 2 | | 2.1 | | | 97 | | | 12 | | | | | | | | | | | | 352 | | | | | | | | | | | | | | | | | | | | | 2 | | | | | | | | | | | | | | | | | | | | 0.8 | | | | | | | | | | | | | | | | 236 | | | | | | | | | | | | | | | | 28 | | 850 | | 1 | | | | 0.3 | | 352 | | 11 | | 1962 | | | |
| Mine (excluding coal) & Quarry Workers | 0 | | 0.1 | | | 0 | | | 0 | | | | | | | | | | | | 4500 | | | | | | | | | | | | | | | | | | | | | 2 | | | | | | | | | | | | | | | | | | | | 0.0 | | | | | | | | | | | | | | | | 4521 | | | | | | | | | | | | | | | | 543 | | 16322 | | 0 | | | | 0.0 | | 0 | | 0 | | 9548 | | | |
| Lorry drivers | 7 | | 3.1 | | | 228 | | | 92 | | | | | | | | | | | | 471 | | | | | | | | | | | | | | | | | | | | | 5 | | | | | | | | | | | | | | | | | | | | 1.8 | | | | | | | | | | | | | | | | 273 | | | | | | | | | | | | | | | | 89 | | 638 | | 4 | | | | 1.6 | | 251 | | 68 | | 643 | | | |
| Dockers goods porters and slingers combined | 3 | | 0.8 | | | 379 | | | 78 | | | | | | | | | | | | 1109 | | | | | | | | | | | | | | | | | | | | | 1 | | | | | | | | | | | | | | | | | | | | 0.2 | | | | | | | | | | | | | | | | 527 | | | | | | | | | | | | | | | | 16 | | 2936 | | 0 | | | | 0.0 | | 0 | | 0 | | 8196 | | | |
| Total | 15 | | 7.0 | | |  | | |  | | | | | | | | | | | |  | | | | | | | | | | | | | | | | | | | | | 11 | | | | | | | | | | | | | | | | | | | | 3.3 | | | | | | | | | | | | | | | |  | | | | | | | | | | | | | | | |  | |  | | 5 | | | | 2.1 | |  | |  | |  | | | |
|  |  | |  | | |  | | |
| **Injury by machinery** |  | |  | | |  | | |
|  | 1979-80, 1982-1990 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 1991-2000 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 2001-2010 | | | | | | | | | | | | |
| **Job group** | **Deaths Obs** | | **Deaths Exp** | | | **PMR** | | | **L CL** | | | | | | | | | | | | **U CL** | | | | | | | | | | | | | | | | | | | | | **Deaths Obs** | | | | | | | | | | | | | | | | | | | | **Deaths Exp** | | | | | | | | | | | | | | | | **PMR** | | | | | | | | | | | | | | | | **L CL** | | **U CL** | | **Deaths Obs** | | | | **Deaths Exp** | | **PMR** | | **L CL** | | **U CL** | | | |
| Farming and fishing combined | 127 | | 31.2 | | | 408 | | | 340 | | | | | | | | | | | | 485 | | | | | | | | | | | | | | | | | | | | | 49 | | | | | | | | | | | | | | | | | | | | 11.9 | | | | | | | | | | | | | | | | 413 | | | | | | | | | | | | | | | | 306 | | 546 | | 23 | | | | 3.6 | | 632 | | 401 | | 949 | | | |
| Forestry Workers | 6 | | 1.2 | | | 518 | | | 190 | | | | | | | | | | | | 1128 | | | | | | | | | | | | | | | | | | | | | 1 | | | | | | | | | | | | | | | | | | | | 0.5 | | | | | | | | | | | | | | | | 209 | | | | | | | | | | | | | | | | 6 | | 1165 | | 1 | | | | 0.1 | | 1173 | | 35 | | 6535 | | | |
| Other textile processing operatives combined | 8 | | 5.4 | | | 149 | | | 64 | | | | | | | | | | | | 294 | | | | | | | | | | | | | | | | | | | | | 0 | | | | | | | | | | | | | | | | | | | | 0.6 | | | | | | | | | | | | | | | | 0 | | | | | | | | | | | | | | | | 0 | | 668 | | 0 | | | | 0.1 | | 0 | | 0 | | 5106 | | | |
| Chemical workers combined | 23 | | 12.6 | | | 182 | | | 115 | | | | | | | | | | | | 273 | | | | | | | | | | | | | | | | | | | | | 1 | | | | | | | | | | | | | | | | | | | | 2.2 | | | | | | | | | | | | | | | | 45 | | | | | | | | | | | | | | | | 1 | | 252 | | 0 | | | | 0.3 | | 0 | | 0 | | 1098 | | | |
| Paper and wood machine operatives combined | 10 | | 6.0 | | | 166 | | | 80 | | | | | | | | | | | | 305 | | | | | | | | | | | | | | | | | | | | | 6 | | | | | | | | | | | | | | | | | | | | 1.4 | | | | | | | | | | | | | | | | 415 | | | | | | | | | | | | | | | | 152 | | 904 | | 0 | | | | 0.4 | | 0 | | 0 | | 882 | | | |
| Coal miners combined | 50 | | 17.4 | | | 288 | | | 214 | | | | | | | | | | | | 380 | | | | | | | | | | | | | | | | | | | | | 7 | | | | | | | | | | | | | | | | | | | | 3.8 | | | | | | | | | | | | | | | | 182 | | | | | | | | | | | | | | | | 73 | | 376 | | 0 | | | | 0.3 | | 0 | | 0 | | 1100 | | | |
| Other metal manufacturers combined | 11 | | 6.1 | | | 181 | | | 90 | | | | | | | | | | | | 324 | | | | | | | | | | | | | | | | | | | | | 1 | | | | | | | | | | | | | | | | | | | | 1.5 | | | | | | | | | | | | | | | | 67 | | | | | | | | | | | | | | | | 2 | | 371 | | 0 | | | | 0.2 | | 0 | | 0 | | 1522 | | | |
| Metal machining setters and setter-operators combined | 10 | | 6.9 | | | 145 | | | 70 | | | | | | | | | | | | 267 | | | | | | | | | | | | | | | | | | | | | 6 | | | | | | | | | | | | | | | | | | | | 2.1 | | | | | | | | | | | | | | | | 292 | | | | | | | | | | | | | | | | 107 | | 637 | | 1 | | | | 0.5 | | 204 | | 6 | | 1134 | | | |
| Production fitters | 107 | | 38.9 | | | 275 | | | 225 | | | | | | | | | | | | 333 | | | | | | | | | | | | | | | | | | | | | 34 | | | | | | | | | | | | | | | | | | | | 12.2 | | | | | | | | | | | | | | | | 278 | | | | | | | | | | | | | | | | 192 | | 388 | | 7 | | | | 2.4 | | 294 | | 118 | | 606 | | | |
| Steel Erectors | 8 | | 3.3 | | | 246 | | | 106 | | | | | | | | | | | | 485 | | | | | | | | | | | | | | | | | | | | | 2 | | | | | | | | | | | | | | | | | | | | 1.3 | | | | | | | | | | | | | | | | 158 | | | | | | | | | | | | | | | | 19 | | 570 | | 1 | | | | 0.3 | | 379 | | 11 | | 2112 | | | |
| Scaffolders, Riggers combined | 9 | | 4.0 | | | 224 | | | 103 | | | | | | | | | | | | 426 | | | | | | | | | | | | | | | | | | | | | 2 | | | | | | | | | | | | | | | | | | | | 1.7 | | | | | | | | | | | | | | | | 120 | | | | | | | | | | | | | | | | 14 | | 433 | | 2 | | | | 0.7 | | 293 | | 35 | | 1057 | | | |
| Other construction workers combined | 53 | | 44.2 | | | 120 | | | 90 | | | | | | | | | | | | 157 | | | | | | | | | | | | | | | | | | | | | 26 | | | | | | | | | | | | | | | | | | | | 20.4 | | | | | | | | | | | | | | | | 127 | | | | | | | | | | | | | | | | 83 | | 187 | | 4 | | | | 8.2 | | 49 | | 13 | | 126 | | | |
| Mine (excluding coal) & Quarry Workers | 7 | | 1.5 | | | 467 | | | 188 | | | | | | | | | | | | 963 | | | | | | | | | | | | | | | | | | | | | 2 | | | | | | | | | | | | | | | | | | | | 0.5 | | | | | | | | | | | | | | | | 432 | | | | | | | | | | | | | | | | 52 | | 1561 | | 0 | | | | 0.1 | | 0 | | 0 | | 3422 | | | |
| Mechanical Plant Drivers & Operatives (earth moving & civil engineering) | 22 | | 2.8 | | | 775 | | | 486 | | | | | | | | | | | | 1174 | | | | | | | | | | | | | | | | | | | | | 11 | | | | | | | | | | | | | | | | | | | | 1.5 | | | | | | | | | | | | | | | | 732 | | | | | | | | | | | | | | | | 365 | | 1310 | | 1 | | | | 0.3 | | 320 | | 10 | | 1782 | | | |
| Crane Drivers | 24 | | 4.3 | | | 563 | | | 361 | | | | | | | | | | | | 837 | | | | | | | | | | | | | | | | | | | | | 3 | | | | | | | | | | | | | | | | | | | | 0.9 | | | | | | | | | | | | | | | | 318 | | | | | | | | | | | | | | | | 66 | | 928 | | 0 | | | | 0.2 | | 0 | | 0 | | 1511 | | | |
| Fork Lift & Mechanical Truck Drivers | 27 | | 7.6 | | | 354 | | | 233 | | | | | | | | | | | | 515 | | | | | | | | | | | | | | | | | | | | | 14 | | | | | | | | | | | | | | | | | | | | 3.6 | | | | | | | | | | | | | | | | 391 | | | | | | | | | | | | | | | | 214 | | 656 | | 0 | | | | 1.8 | | 0 | | 0 | | 203 | | | |
| Dockers goods porters and slingers combined | 18 | | 7.3 | | | 246 | | | 146 | | | | | | | | | | | | 388 | | | | | | | | | | | | | | | | | | | | | 5 | | | | | | | | | | | | | | | | | | | | 2.5 | | | | | | | | | | | | | | | | 199 | | | | | | | | | | | | | | | | 64 | | 464 | | 1 | | | | 0.1 | | 1093 | | 33 | | 6086 | | | |
| Other transport, plant and machine operatives combined | 1 | | 1.2 | | | 85 | | | 2 | | | | | | | | | | | | 473 | | | | | | | | | | | | | | | | | | | | | 17 | | | | | | | | | | | | | | | | | | | | 4.8 | | | | | | | | | | | | | | | | 355 | | | | | | | | | | | | | | | | 207 | | 568 | | 4 | | | | 1.7 | | 234 | | 64 | | 599 | | | |
| Total | 521 | | 201.8 | | |  | | |  | | | | | | | | | | | |  | | | | | | | | | | | | | | | | | | | | | 187 | | | | | | | | | | | | | | | | | | | | 73.3 | | | | | | | | | | | | | | | |  | | | | | | | | | | | | | | | |  | |  | | 45 | | | | 21.4 | |  | |  | |  | | | |
|  |  | |  | | |  | | |
| **Injury by cutting and piercing instruments or objects** |  | |  | | |
|  | 1979-80, 1982-1990 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 1991-2000 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 2001-2010 | | | | | | | | | | | | |
| **Job group** | **Deaths Obs** | | **Deaths Exp** | | | **PMR** | | | | **L CL** | | | | | | | | | | | | | | **U CL** | | | | | | | | | | | | | | | | | | | | **Deaths Obs** | | | | | | | | | | | | | | | | | | | | **Deaths Exp** | | | | | | | | | | | | | | | | | **PMR** | | | | | | | | | | | | | **L CL** | | **U CL** | | **Deaths Obs** | | | | **Deaths Exp** | | **PMR** | | **L CL** | | **U CL** | | | |
| Butchers | 4 | | 0.5 | | | 813 | | | | 222 | | | | | | | | | | | | | | 2081 | | | | | | | | | | | | | | | | | | | | 0 | | | | | | | | | | | | | | | | | | | | 0.3 | | | | | | | | | | | | | | | | | 0 | | | | | | | | | | | | | 0 | | 1150 | | 0 | | | | 0.2 | | 0 | | 0 | | 2127 | | | |
| Farming and fishing combined | 6 | | 2.4 | | | 247 | | | | 90 | | | | | | | | | | | | | | 537 | | | | | | | | | | | | | | | | | | | | 6 | | | | | | | | | | | | | | | | | | | | 2.1 | | | | | | | | | | | | | | | | | 280 | | | | | | | | | | | | | 103 | | 610 | | 4 | | | | 1.3 | | 309 | | 84 | | 790 | | | |
| Armed Forces (unadjusted) | 5 | | 1.3 | | | 384 | | | | 124 | | | | | | | | | | | | | | 896 | | | | | | | | | | | | | | | | | | | | 1 | | | | | | | | | | | | | | | | | | | | 0.8 | | | | | | | | | | | | | | | | | 120 | | | | | | | | | | | | | 4 | | 670 | | 1 | | | | 0.3 | | 352 | | 11 | | 1958 | | | |
| Other construction workers combined | 7 | | 3.8 | | | 182 | | | | 73 | | | | | | | | | | | | | | 375 | | | | | | | | | | | | | | | | | | | | 8 | | | | | | | | | | | | | | | | | | | | 4.0 | | | | | | | | | | | | | | | | | 201 | | | | | | | | | | | | | 87 | | 396 | | 4 | | | | 3.6 | | 112 | | 31 | | 287 | | | |
| Total | 22 | | 8.1 | | |  | | | |  | | | | | | | | | | | | | |  | | | | | | | | | | | | | | | | | | | | 15 | | | | | | | | | | | | | | | | | | | | 7.3 | | | | | | | | | | | | | | | | |  | | | | | | | | | | | | |  | |  | | 9 | | | | 5.3 | |  | |  | |  | | | |
|  |  | |  | | |  | | | |
| **Injury by explosion of pressure vessel** |  | |  | | |
|  | 1979-80, 1982-1990 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 1991-2000 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 2001-2010 | | | | | | | | | | | | |
| **Job group** | **Deaths Obs** | | **Deaths Exp** | | | **PMR** | | | | | **L CL** | | | | | | | | | | | | | | | **U CL** | | | | | | | | | | | | | | | | | | | | | **Deaths Obs** | | | | | | | | | | | | | | | | | | | | **Deaths Exp** | | | | | | | | | | | | | | | **PMR** | | | | | | | | | | | | **L CL** | | **U CL** | | **Deaths Obs** | | | | **Deaths Exp** | | **PMR** | | **L CL** | | **U CL** | | | |
| Production fitters | 4 | | 1.1 | | | 368 | | | | | 100 | | | | | | | | | | | | | | | 941 | | | | | | | | | | | | | | | | | | | | | 2 | | | | | | | | | | | | | | | | | | | | 0.8 | | | | | | | | | | | | | | | 258 | | | | | | | | | | | | 31 | | 932 | | 0 | | | | 0.0 | | 0 | | 0 | | 105239 | | | |
| Motor Mechanics, Auto Engineers combined | 1 | | 0.5 | | | 213 | | | | | 6 | | | | | | | | | | | | | | | 1185 | | | | | | | | | | | | | | | | | | | | | 3 | | | | | | | | | | | | | | | | | | | | 0.4 | | | | | | | | | | | | | | | 738 | | | | | | | | | | | | 152 | | 2157 | | 1 | | | | 0.0 | | 2514 | | 75 | | 14001 | | | |
| Electrical, Energy, Boiler Operatives & Attendants combined | 1 | | 0.1 | | | 769 | | | | | 23 | | | | | | | | | | | | | | | 4285 | | | | | | | | | | | | | | | | | | | | | 1 | | | | | | | | | | | | | | | | | | | | 0.0 | | | | | | | | | | | | | | | 6924 | | | | | | | | | | | | 208 | | 38565 | | 0 | | | | 0.0 | | 0 | | 0 | | 308669 | | | |
| Total | 6 | | 1.7 | | |  | | | | |  | | | | | | | | | | | | | | |  | | | | | | | | | | | | | | | | | | | | | 6 | | | | | | | | | | | | | | | | | | | | 1.2 | | | | | | | | | | | | | | |  | | | | | | | | | | | |  | |  | | 1 | | | | 0.0 | |  | |  | |  | | | |
|  |  | |  | | |  | | | | |
| **Injury by firearms** |  | |  | | |  | | | | |
|  | 1979-80, 1982-1990 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 1991-2000 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 2001-2010 | | | | | | | | | | | | |
| **Job group** | **Deaths Obs** | | **Deaths Exp** | | | **PMR** | | | | | **L CL** | | | | | | | | | | | | | | | | | **U CL** | | | | | | | | | | | | | | | | | | | **Deaths Obs** | | | | | | | | | | | | | | | | | | | | **Deaths Exp** | | | | | | | | | | | | | | | | | **PMR** | | | | | | | | | | **L CL** | | **U CL** | | **Deaths Obs** | | | | **Deaths Exp** | | **PMR** | | **L CL** | | **U CL** | | | |
| Farming and fishing combined | 22 | | 3.1 | | | 703 | | | | | 441 | | | | | | | | | | | | | | | | | 1065 | | | | | | | | | | | | | | | | | | | 11 | | | | | | | | | | | | | | | | | | | | 1.4 | | | | | | | | | | | | | | | | | 798 | | | | | | | | | | 398 | | 1428 | | 2 | | | | 0.6 | | 362 | | 43 | | 1306 | | | |
| Armed Forces (unadjusted) | 7 | | 1.6 | | | 427 | | | | | 171 | | | | | | | | | | | | | | | | | 879 | | | | | | | | | | | | | | | | | | | 3 | | | | | | | | | | | | | | | | | | | | 0.4 | | | | | | | | | | | | | | | | | 671 | | | | | | | | | | 139 | | 1960 | | 1 | | | | 0.2 | | 599 | | 18 | | 3338 | | | |
| Police | 3 | | 0.6 | | | 493 | | | | | 102 | | | | | | | | | | | | | | | | | 1442 | | | | | | | | | | | | | | | | | | | 0 | | | | | | | | | | | | | | | | | | | | 0.5 | | | | | | | | | | | | | | | | | 0 | | | | | | | | | | 0 | | 803 | | 0 | | | | 0.0 | | 0 | | 0 | | 9346 | | | |
| Total | 32 | | 5.4 | | |  | | | | |  | | | | | | | | | | | | | | | | |  | | | | | | | | | | | | | | | | | | | 14 | | | | | | | | | | | | | | | | | | | | 2.3 | | | | | | | | | | | | | | | | |  | | | | | | | | | |  | |  | | 3 | | | | 0.8 | |  | |  | |  | | | |
|  |  | |  | | |  | | | | |
|  |  | |  | | |  | | | | |
| **Injury by explosive material** |  | |  | | |
|  | 1979-80, 1982-1990 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 1991-2000 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 2001-2010 | | | | | | | | | | | | |
| **Job group** | **Deaths Obs** | | **Deaths Exp** | | | **PMR** | | | | | | **L CL** | | | | | | | | | | | | | | | | | | **U CL** | | | | | | | | | | | | | | | | | | | **Deaths Obs** | | | | | | | | | | | | | | | | | | | **Deaths Exp** | | | | | | | | | | | | | | | | **PMR** | | | | | | | | | | **L CL** | | **U CL** | | **Deaths Obs** | | | | **Deaths Exp** | | **PMR** | | **L CL** | | **U CL** | | | |
| Armed Forces (unadjusted) | 7 | | 2.0 | | | 351 | | | | | | 141 | | | | | | | | | | | | | | | | | | 724 | | | | | | | | | | | | | | | | | | | 0 | | | | | | | | | | | | | | | | | | | 0.5 | | | | | | | | | | | | | | | | 0 | | | | | | | | | | 0 | | 675 | | 1 | | | | 0.1 | | 719 | | 22 | | 4005 | | | |
| Chemical workers combined | 12 | | 1.7 | | | 702 | | | | | | 363 | | | | | | | | | | | | | | | | | | 1226 | | | | | | | | | | | | | | | | | | | 1 | | | | | | | | | | | | | | | | | | | 0.1 | | | | | | | | | | | | | | | | 848 | | | | | | | | | | 25 | | 4721 | | 0 | | | | 0.1 | | 0 | | 0 | | 6052 | | | |
| Coal miners combined | 7 | | 2.4 | | | 295 | | | | | | 118 | | | | | | | | | | | | | | | | | | 607 | | | | | | | | | | | | | | | | | | | 0 | | | | | | | | | | | | | | | | | | | 0.1 | | | | | | | | | | | | | | | | 0 | | | | | | | | | | 0 | | 2956 | | 0 | | | | 0.0 | | 0 | | 0 | | 61864 | | | |
| Motor Mechanics, Auto Engineers combined | 6 | | 2.2 | | | 268 | | | | | | 98 | | | | | | | | | | | | | | | | | | 584 | | | | | | | | | | | | | | | | | | | 3 | | | | | | | | | | | | | | | | | | | 1.1 | | | | | | | | | | | | | | | | 277 | | | | | | | | | | 57 | | 811 | | 1 | | | | 0.2 | | 509 | | 15 | | 2837 | | | |
| Electricians electrical maintenance fitters combined | 10 | | 3.1 | | | 322 | | | | | | 155 | | | | | | | | | | | | | | | | | | 592 | | | | | | | | | | | | | | | | | | | 1 | | | | | | | | | | | | | | | | | | | 1.2 | | | | | | | | | | | | | | | | 84 | | | | | | | | | | 3 | | 467 | | 1 | | | | 0.3 | | 341 | | 10 | | 1902 | | | |
| Electrical engineers (not professional) combined | 4 | | 0.7 | | | 569 | | | | | | 155 | | | | | | | | | | | | | | | | | | 1457 | | | | | | | | | | | | | | | | | | | 0 | | | | | | | | | | | | | | | | | | | 0.3 | | | | | | | | | | | | | | | | 0 | | | | | | | | | | 0 | | 1362 | | 0 | | | | 0.2 | | 0 | | 0 | | 2440 | | | |
| Plumbers, Heating & Ventilating Engineers & Related Trades | 2 | | 2.1 | | | 96 | | | | | | 11 | | | | | | | | | | | | | | | | | | 346 | | | | | | | | | | | | | | | | | | | 4 | | | | | | | | | | | | | | | | | | | 0.9 | | | | | | | | | | | | | | | | 451 | | | | | | | | | | 123 | | 1155 | | 0 | | | | 0.2 | | 0 | | 0 | | 1921 | | | |
| Other construction workers combined | 7 | | 6.0 | | | 116 | | | | | | 47 | | | | | | | | | | | | | | | | | | 240 | | | | | | | | | | | | | | | | | | | 3 | | | | | | | | | | | | | | | | | | | 2.6 | | | | | | | | | | | | | | | | 117 | | | | | | | | | | 24 | | 343 | | 0 | | | | 0.7 | | 0 | | 0 | | 507 | | | |
| Mechanical Plant Drivers & Operatives (earth moving & civil engineering) | 0 | | 0.4 | | | 0 | | | | | | 0 | | | | | | | | | | | | | | | | | | 866 | | | | | | | | | | | | | | | | | | | 2 | | | | | | | | | | | | | | | | | | | 0.2 | | | | | | | | | | | | | | | | 844 | | | | | | | | | | 101 | | 3046 | | 0 | | | | 0.0 | | 0 | | 0 | | 34222 | | | |
| Total | 55 | | 20.7 | | |  | | | | | |  | | | | | | | | | | | | | | | | | |  | | | | | | | | | | | | | | | | | | | 14 | | | | | | | | | | | | | | | | | | | 7.0 | | | | | | | | | | | | | | | |  | | | | | | | | | |  | |  | | 3 | | | | 1.8 | |  | |  | |  | | | |
|  |  | |  | | |  | | | | | |
| **Injury by hot substances** |  | |  | | |
|  | 1979-80, 1982-1990 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 1991-2000 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 2001-2010 | | | | | | | | | | | | |
| **Job group** | **Deaths Obs** | | **Deaths Exp** | | | **PMR** | | | | | | | **L CL** | | | | | | | | | | | | | | | | | | | **U CL** | | | | | | | | | | | | | | | | | | | **Deaths Obs** | | | | | | | | | | | | | | | | | | **Deaths Exp** | | | | | | | | | | | | | | | | **PMR** | | | | | | | | | **L CL** | | **U CL** | | **Deaths Obs** | | | | **Deaths Exp** | | **PMR** | | **L CL** | | **U CL** | | | |
| Chemical workers combined | 5 | | 0.6 | | | 786 | | | | | | | 255 | | | | | | | | | | | | | | | | | | | 1835 | | | | | | | | | | | | | | | | | | | 1 | | | | | | | | | | | | | | | | | | 0.3 | | | | | | | | | | | | | | | | 296 | | | | | | | | | 9 | | 1647 | | 0 | | | | 0.1 | | 0 | | 0 | | 4080 | | | |
| Other food drink and tobacco process operatives nec combined | 3 | | 0.4 | | | 789 | | | | | | | 163 | | | | | | | | | | | | | | | | | | | 2308 | | | | | | | | | | | | | | | | | | | 3 | | | | | | | | | | | | | | | | | | 0.3 | | | | | | | | | | | | | | | | 977 | | | | | | | | | 202 | | 2857 | | 0 | | | | 0.1 | | 0 | | 0 | | 6209 | | | |
| Other metal manufacturers combined | 2 | | 0.3 | | | 585 | | | | | | | 70 | | | | | | | | | | | | | | | | | | | 2111 | | | | | | | | | | | | | | | | | | | 0 | | | | | | | | | | | | | | | | | | 0.1 | | | | | | | | | | | | | | | | 0 | | | | | | | | | 0 | | 2530 | | 0 | | | | 0.1 | | 0 | | 0 | | 7020 | | | |
| Production fitters | 8 | | 2.3 | | | 347 | | | | | | | 150 | | | | | | | | | | | | | | | | | | | 683 | | | | | | | | | | | | | | | | | | | 4 | | | | | | | | | | | | | | | | | | 0.8 | | | | | | | | | | | | | | | | 512 | | | | | | | | | 139 | | 1310 | | 1 | | | | 0.6 | | 178 | | 5 | | 993 | | | |
| Total | 18 | | 3.7 | | |  | | | | | | |  | | | | | | | | | | | | | | | | | | |  | | | | | | | | | | | | | | | | | | | 8 | | | | | | | | | | | | | | | | | | 1.6 | | | | | | | | | | | | | | | |  | | | | | | | | |  | |  | | 1 | | | | 0.8 | |  | |  | |  | | | |
|  |  | |  | | |  | | | | | | |
| **Injury by electric current** |  | |  | | |  | | | | | | |
|  | 1979-80, 1982-1990 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 1991-2000 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 2001-2010 | | | | | | | | | | | |
| **Job group** | **Deaths Obs** | | **Deaths Exp** | | | **PMR** | | | | | | | **L CL** | | | | | | | | | | | | | | | | | | | | | **U CL** | | | | | | | | | | | | | | | | | | **Deaths Obs** | | | | | | | | | | | | | | | | | | **Deaths Exp** | | | | | | | | | | | | | | | | | **PMR** | | | | | | | **L CL** | | **U CL** | | **Deaths Obs** | | | | **Deaths Exp** | | **PMR** | | **L CL** | | **U CL** | | | |
| Farming and fishing combined | 29 | | 13.3 | | | 218 | | | | | | | 146 | | | | | | | | | | | | | | | | | | | | | 313 | | | | | | | | | | | | | | | | | | 17 | | | | | | | | | | | | | | | | | | 6.7 | | | | | | | | | | | | | | | | | 252 | | | | | | | 147 | | 404 | | 3 | | | | 6.0 | | 50 | | 10 | | 147 | | | |
| Rail travel assistants combined | 2 | | 1.5 | | | 130 | | | | | | | 16 | | | | | | | | | | | | | | | | | | | | | 470 | | | | | | | | | | | | | | | | | | 2 | | | | | | | | | | | | | | | | | | 0.7 | | | | | | | | | | | | | | | | | 307 | | | | | | | 37 | | 1108 | | 0 | | | | 0.1 | | 0 | | 0 | | 3051 | | | |
| Electricians electrical maintenance fitters combined | 42 | | 11.3 | | | 372 | | | | | | | 268 | | | | | | | | | | | | | | | | | | | | | 503 | | | | | | | | | | | | | | | | | | 23 | | | | | | | | | | | | | | | | | | 6.2 | | | | | | | | | | | | | | | | | 374 | | | | | | | 237 | | 561 | | 20 | | | | 4.7 | | 427 | | 261 | | 659 | | | |
| Cable Jointers, Lines Repairers | 12 | | 0.5 | | | 2214 | | | | | | | 1144 | | | | | | | | | | | | | | | | | | | | | 3867 | | | | | | | | | | | | | | | | | | 2 | | | | | | | | | | | | | | | | | | 0.3 | | | | | | | | | | | | | | | | | 574 | | | | | | | 69 | | 2072 | | 0 | | | | 0.2 | | 0 | | 0 | | 1901 | | | |
| Radio, TV & Video Engineers | 5 | | 1.3 | | | 390 | | | | | | | 126 | | | | | | | | | | | | | | | | | | | | | 910 | | | | | | | | | | | | | | | | | | 1 | | | | | | | | | | | | | | | | | | 0.5 | | | | | | | | | | | | | | | | | 215 | | | | | | | 6 | | 1200 | | 0 | | | | 0.2 | | 0 | | 0 | | 1568 | | | |
| Electrical engineers (not professional) combined | 6 | | 2.4 | | | 254 | | | | | | | 93 | | | | | | | | | | | | | | | | | | | | | 553 | | | | | | | | | | | | | | | | | | 6 | | | | | | | | | | | | | | | | | | 1.4 | | | | | | | | | | | | | | | | | 426 | | | | | | | 156 | | 927 | | 1 | | | | 0.8 | | 129 | | 4 | | 720 | | | |
| Plumbers, Heating & Ventilating Engineers & Related Trades | 12 | | 7.1 | | | 169 | | | | | | | 87 | | | | | | | | | | | | | | | | | | | | | 295 | | | | | | | | | | | | | | | | | | 9 | | | | | | | | | | | | | | | | | | 4.6 | | | | | | | | | | | | | | | | | 197 | | | | | | | 90 | | 374 | | 4 | | | | 3.1 | | 128 | | 35 | | 327 | | | |
| Rail Construction & Maintenance Workers | 3 | | 0.6 | | | 469 | | | | | | | 97 | | | | | | | | | | | | | | | | | | | | | 1372 | | | | | | | | | | | | | | | | | | 1 | | | | | | | | | | | | | | | | | | 0.3 | | | | | | | | | | | | | | | | | 364 | | | | | | | 11 | | 2026 | | 0 | | | | 0.2 | | 0 | | 0 | | 2300 | | | |
| Road Construction Workers and Paviors | 6 | | 1.1 | | | 528 | | | | | | | 193 | | | | | | | | | | | | | | | | | | | | | 1149 | | | | | | | | | | | | | | | | | | 0 | | | | | | | | | | | | | | | | | | 0.6 | | | | | | | | | | | | | | | | | 0 | | | | | | | 0 | | 649 | | 0 | | | | 0.4 | | 0 | | 0 | | 988 | | | |
| Other construction workers combined | 23 | | 20.4 | | | 113 | | | | | | | 71 | | | | | | | | | | | | | | | | | | | | | 169 | | | | | | | | | | | | | | | | | | 19 | | | | | | | | | | | | | | | | | | 12.7 | | | | | | | | | | | | | | | | | 149 | | | | | | | 90 | | 233 | | 12 | | | | 12.4 | | 97 | | 50 | | 169 | | | |
| Crane Drivers | 5 | | 2.0 | | | 253 | | | | | | | 82 | | | | | | | | | | | | | | | | | | | | | 590 | | | | | | | | | | | | | | | | | | 0 | | | | | | | | | | | | | | | | | | 0.7 | | | | | | | | | | | | | | | | | 0 | | | | | | | 0 | | 512 | | 1 | | | | 0.1 | | 921 | | 28 | | 5131 | | | |
| Total | 145 | | 61.6 | | |  | | | | | | |  | | | | | | | | | | | | | | | | | | | | |  | | | | | | | | | | | | | | | | | | 80 | | | | | | | | | | | | | | | | | | 34.6 | | | | | | | | | | | | | | | | |  | | | | | | |  | |  | | 41 | | | | 28.2 | |  | |  | |  | | | |
|  |  | |  | | |  | | | | | | |
| **Homicide** |  | |  | | |  | | | | | | |
|  | 1979-80, 1982-1990 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 1991-2000 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 2001-2010 | | | | | | | | | |
| **Job group** | **Deaths Obs** | | **Deaths Exp** | | | **PMR** | | | | | | | **L CL** | | | | | | | | | | | | | | | | | | | | | | **U CL** | | | | | | | | | | | | | | | | | | | | | **Deaths Obs** | | | | | | | | | | | | | | **Deaths Exp** | | | | | | | | | | | | | | | | | **PMR** | | | | | | | **L CL** | | **U CL** | | | | | **Deaths Obs** | **Deaths Exp** | | **PMR** | | **L CL** | | **U CL** | | | |
| Police | 16 | | 5.8 | | | 276 | | | | | | | 158 | | | | | | | | | | | | | | | | | | | | | | 448 | | | | | | | | | | | | | | | | | | | | | 7 | | | | | | | | | | | | | | 6.2 | | | | | | | | | | | | | | | | | 112 | | | | | | | 45 | | 232 | | | | | 4 | 4.6 | | 87 | | 24 | | 223 | | | |
|  |  | |  | | |  | | | | | | |
| **War** |  | |  | | |  | | | | | | |
|  | 1979-80, 1982-1990 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 1991-2000 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 2001-2010 | | | | | | | | | |
| **Job group** | **Deaths Obs** | | **Deaths Exp** | | | **PMR** | | | | | | | **L CL** | | | | | | | | | | | | | | | | | | | | | | | | **U CL** | | | | | | | | | | | | | | | | | | | **Deaths Obs** | | | | | | | | | | | | | | | | **Deaths Exp** | | | | | | | | | | | | | | | | | **PMR** | | | | | **L CL** | | **U CL** | | | | | **Deaths Obs** | **Deaths Exp** | | **PMR** | | **L CL** | | **U CL** | | | |
| Armed Forces (unadjusted) | 10 | | 0.3 | | | 3922 | | | | | | | 1882 | | | | | | | | | | | | | | | | | | | | | | | | 7212 | | | | | | | | | | | | | | | | | | | 2 | | | | | | | | | | | | | | | | 0.1 | | | | | | | | | | | | | | | | | 3418 | | | | | 410 | | 12338 | | | | | 1 | 0.0 | | 3461 | | 104 | | 19276 | | | |

Deaths Obs - Deaths observed, Deaths Exp - Deaths expected, L CL and U CL - Lower and Upper 95% Confidence Limits