Variable Availability **Employment** File Only Accident/Injury/Illness

Both Employment and

Accident/Injury/Illness Files

Reference Guide for Commonly Used MSHA **Employment and Accident/Injury/Illness Data Codes and Descriptions**

Notes: See the "MSHA Data User's Guide" for further information.

Computed or recoded variables are outlined in RED

Codes applicable to Contractors in Address/Employment files are displayed in BLUE.

UNDERGROUND MINING METHOD

- Variable Name: UMETH
- Longwall
- Shortwall Conventional Continuous
- 6 Hand
- Caving
- Other

UNDERGROUND LOCATION Variable Name: ULOC

- Not labeled
- Vertical shaft Slope/inclined shaft
- Intersection
- Underground shop/office 5
- Other Unknown
- 12 Not labeled
- Central Shops Preparation Plants

MSHA DISTRICT OFFICE

Variable Name: **DISTRICT**

- C01 Wilkes Barre, PA (Inactive starting 2013) C02 New Stanton, PA (Combined with C01 in 2013)
- C03 Morgantown, WV
- C04 Mt. Hope, WV (Split into C04/C12 in 2010) C05 Norton, VA (Added some C06 offices in 2016)
- C06 Pikeville, KY (Inactive starting 2016) C07 Barbourville, KY (Added some C06 offices in 2016)
- C09 Denver, CO C10 Madisonville, KY C11 Birmingham, AL
- C12 Pineville, WV (Split from C04 in 2010)

MNC North Central-Deuluth, MN MNE Northeast-Warrendale, PA MRM Rocky Mountain-Denver, CO MSC South Central-Dallas, TX Southeast-Birmingham, AL

MWE Western-Vacaville, CA CNT Contractor (No district) (Address/Employment files only)

CANVASS or CLASS Variable Name: CANVASS

ACCIDENT CODE

(Available through 2013)

Variable Name: ACCCODE

Gas or dust explosion Mine fire

Impounding dam Hoisting 11

Offsite injury

Not labeled

Death

Serious injury Entrapment

Inundation

Explosives

8 Roof fall Outburst

10

13

- Anthracite Coal
- Bituminous Coal
- Sand and Grave
- 6 Stone
- Nonmetal
- Metal
- Contractor
- (Address/Employment files only)

Operational SUBUNIT within Mine Variable Name: SUBUNIT

- Underground operations: All underground operations. Operations below the surface of the ground. Excavations beneath a roof. Hoisting to the surface
- Surface at Underground: Includes surface shops and yards, tipple physically located at the mine site.
- Surface: Strip or open pit mines including associated shops and yards.
- Auger: Auger mining operations for coal mines only.
- Culm Banks: Reworking of mine dumps or refuse pile. For coal mines only. Dredge: Mining operations conducted from a platform floating on water.
- Other Surface: Brine pumping, etc. For metal/nonmetal only.
- Independent shops and yards: Shops and yards not associated with one specific mine. Will have an individual mine-id.
- Mill or preparation plant: Mill, preparation plant or breaker operations associated with one specific mine. Includes associated shops and yards. Office: Professional or clerical workers at the plant or mine.

COMMODITY/ EMPLOYER TYPE Variable Name: COMMOD

Coal operator

- Metal operator
- 3 Nonmetal operator
- Stone operator
- Sand & gravel operator
- Coal contractor
- Noncoal contractor

PART of BODY AFFECTED Variable Name: PARTBODY

100 Head, NEC

- Brain 110
- 120 Ear(s)
- Ear(s) external 121 122 Ear(s) internal (inc. hearing)
- 130 Eye(s)(inc. optic nerve & vision)
- Face, NEC 140
- 141 Jaw (inc. chin)
- 142 Mouth
- 143 Nose
- 144 Face, multiple parts
- 150 Scaln 160 Skull
- 170 Head, multiple
- 200 Neck
- Upper extremities, NEC 300
- 310 Arm, NEC
- Upper arm
- 312 Elbow
- 313 Forearm 314 Arm, multiple
- 320 Wrist
- 330 Hand
- Finger(s) 340
- Upper extremities, multiple
- Trunk, NEC 400 410 Abdomen
- 420 Back Chest
- 440 Hips
- 450 Shoulder(s)
- Trunk, multiple Lower extremities, NEC 500
- 510 Leg, NEC 511 Thigh
- Knee
- 513 Lower leg
- 514 Leg, multiple 520 Ankle
- Foot (not ankle or toes)
- 540 Toe (s) 550 Lower extremities, multiple
- 600 Body systems Multiple parts
- Body parts NEC 800
- Unclassified

STANDARD INDUSTRIAL CLASSIFICATION for Primary Commodity Mined

Industrial chemicals NEC

Salt (evaporated)

Salt (in brine)

Leonardite

Variable Name: SIC ~~ Grouped by normal CANVASS assignments ANTHRACITE COAL STONE NONMETAL 11110 Coal, Anthracite Stone, dimension NEC 13112 Oil sand 14111 Granite (dimension) 13113 Oil mining 14112 14460 Sand, industrial; Ground silica/quartz **BITUMINOUS COAL** 14530 Clay (fire) 14114 14550 Clay (common)

Clay, Ceramic and refractory NEC 14590 14591 Aplite

- 10210 Copper Ore 10310 Lead and/or Zinc Ore
- 10410 10440 Silver ores
- 10611 10612 Cobalt 10613
- 10614 Manganese 10615
- 10616 10617 Tungsten
- 10920 Mercury 10940
- 10941 10942 Vanadium 10990
- 10991 10992 Bervl 10993 Platinum group 10994 Rare earths

Alumina (Mill)

28191

12110 Coal, Bituminous 14592 Brucite 14593 Feldspar METAL 14594 **Kyanite** 14595 Magnesite 10110 Iron ore 14596 Shale (common) 14720 Barite Fluorspar 14730 14740 Gold (lode and placer) Potash, soda, & borate minerals NEC 14741 Boron Materials 14742 10510 Aluminum Ore Potash Chromite 14743 Trona 14744 Sodium compounds Columbium - Tantalum 14750 Phosphate rock 14760 Salt (rock) Molybdenum 14770 Nickel 14790 Chemical and fertilizer NEC 14791 Lithium 14792 pigment mineral 14793 vanadium ores Uranium 14920 Gypsum 14960 Talc. soapstone, & pyrophylite Nonmetallic minerals NEC Metal ores NEC 14990 Antimony 14991 Asbestos 14992 Gemstones 14993 Gilsonite 14994 Mica 10995 Tin ore 14996 Perlite 10996 Titanium 14997 Pumice 10997 Zircon 14998 Vermiculite

Limestone (Dimension) Marble (dimension) Sandstone (dimension) 14115 Slate (dimension) 14116 Traprock (dimension) Mica (dimension) 14220 Limestone (crushed and broken) 14230 Granite (crushed and broken) 14290 Stone, crushed & broken NEC 14291 Marble (crushed & broken) 14292 Sandstone (crushed & broken) 14293 Slate (crushed & broken) 14294 Traprock (crushed & broken) 14296 Mica (crushed & broken) 32410 Cement 32740

SAND AND GRAVEL

14410 Sand & gravel

14420 Construction S&G; Sand, common

CONTRACTOR

Contractor-no SIC (Address/Employment files only)

Office of Mine Safety and Health Research

28190

28991

28992

29900

Pittsburgh Mining Research Division Surveillance and Statistics Team Pittsburgh, PA ~~ Spokane, WA September 2016



ACCIDENT/INJURY/ILLNESS CLASSIFICATION

Variable Name: AII

ACCIDENT/INJURY

- Electrical
- Exploding vessels under pressure Explosives and breaking agents
- Falling, rolling, or sliding rock or material of any kind
- Fall of face, rib, pillar, side, or highwall (from in place)
- Fall of roof, back, or brow (from in place)
- 8 Fire
- 9 Handling material
- 10 Handtools
- Nonpowered haulage
- Powered haulage 12
- Ignition or explosion of gas or dust Impoundment 14
- 15
- 16
- 17
- Slip or fall of person (from an elevation or on the same level) Stepping or kneeling on object 18
- 19
- Striking or bumping
- 21 Other (not 1-20)

ILLNESS

- Occupational skin diseases or disorders
- Dust disease of the lungs
- 28 Respiratory conditions due to toxic agents (pneumonitis)
- Poisoning
- Disorders due to physical agents other than toxic materials
- 31 Disorders associated with repeated trauma
- Other occupational illnesses

OCCUPATIONAL INJURY TYPE

Variable Name: INJTYPE

Occupational fatality

Degree of Injury = 1; excludes "ZZZ" contractors and minors under the age of 17.

2 NFDL (Nonfatal, days lost)

NDL (No days lost)

Degree of Injury = 6

Nonoccupational fatality
Degree of injury = 1 for "ZZZ" contractors and minors under the age of 17.

DEGREE of INJURY/ILLNESS

Variable Name: **DEGINJ**

- Reportable no injury accident
- Death, fatal
- Permanent disability, partial or total
- 3 4 Days away from work only Days away AND restricted activity
- 5 Days of restricted activity only
- Injuries w/o death, days away, or restricted activity Occupational illness, (NOT 1-6) Employee natural caused fatal & nonfatal injury

- Non-employee fatal & nonfatal cases
- All other cases (including first aid)

MINE WORKER ACTIVITY at Time of Injury/Illness

Variable Name: MWACTIV

- Accident recovery (equipment & workers)
- Advance longwall roof support
- Blasting; shoot coal
- Blow gun to blow out drilled holes
- Brush floor 5
- Bar down face, rib or side, etc.
- Caging; operate elevator; manlift; etc.
- Cement work; gunite crew, etc.
- Change house, bathing; changing clothes, etc.
- Chute, pull or free
- 11 Clean up
- Climb in raise/shaft/manway 12
- Climb scaffolds/ladders/platforms; headframe/derrick/towers
- Climb on piled material/ore/rock/timber/stone 15
- Couple/uncouple mine car/tractor/jeep, etc. Crawling/kneeling
- 16
- Cross over (conveyor)
- 18
- Double jack
 Drill face/rib/side/down/rise (NOT ROOF BOLTER) 19
- Electrical maintenance/repair 20 Environmental tests/checks
- 22 23
- Escaping a hazard Get on or off equip. machines, etc.
- 24
- Hand load; hand shoveling/mucking
- 26 Handling coal, rock, waste or ore Handling explosives
- 27
- Handling supplies or material, load and unload
- 29 Handling timber
- Hand tools (not powered) Hand tools (powered)
- 30 31
- Hang or reposition tubing/pipe/rope/wire etc. 32
- 33 34
- Horseplay Idle (eat lunch, coffee break, etc.)
- 35 Impactor
- Inspect equipment
- Investigate, enter, or work in bins, tanks, etc. Lay or repair railroad track/roadbed, switching tracks, etc.
- 37 38
- Machine maint./repair
- 40 Move power cable 41
- Moving equipment Observe operations 42
- Office and lab work
- Operating Auger (surface mine)
- Operating Auger (underground mine) Operating Barge, boat, dredge 45
- Operating Bulldozer
- Operating Coal tipple/crusher/cleaning plant/breaker
 Operating Continuous miner
- 49
- Operating Conveyor belt (not riding)

- Operating Cutting machine Operating Fork lift Operating Front-end loader
- Operating Grader
- Operating Haulage truck Operating Hoist 55
- 56
- Operating Jitney Operating Load-haul-dump
- Operating Loading machine
 Operating Locomotive (air trammer)
- 60
- Operating Longwall, shear, plow
- Operating Mantrip
 Operating Mill equipment
- 63
- Operating Mucking machine
- Operating Power shovel/dragline/backhoe
- Operating Rock dust machine
- Operating Scraper (rig); cans, etc. 67
- Operating Shortwall
- Operating Shuttle car
- 70 Operating Slusher
- Operating Utility truck
- Operating Surface equipment NEC
- Operating Underground equipment NEC
- 74 Remove or position hydraulic jack
- Rerail equipment 75
- Ride equipment
- 77 Roof bolter, drilling Roof bolter, inserting bolt
- 78
- Roof bolter, tramming
- Roof bolter NEC Sand fill (backfilling stopes w/sand, gob, etc.) 81
- 82 Set brattice
- Set/remove/relocate props
- Skip pocket (pull/free)
- 85
- Spot cars; drop cars Sprag/block/chock mine cars or other track equip.
- Surface construction NEC
- Timbering (includes lagging and cribbing)
 Travel to and from work location 89
- Ventilation (maintenance/installation)
- 92 Walking/running Welding and cutting
- Wetting down working place
- Working w/solvents 96 Working w/chemicals Working w/noxious materials NEC
- Other NEC 99 Unknown

ACCIDENT TYPE or EVENT

Variable Name: ATYPE

- Struck against stationery object
- Struck against moving object
- Struck by concussion Struck by falling object
- Struck by flying object
- 6 Struck by rolling object (sliding)
- Struck by powered moving object Struck by NEC
- Fall down raise, shaft, or manway underground
- Fall from scaffolds, walkways (elevated), platforms, etc. Fall from headframe, derrick, or tower
- Fall from machine, vehicle, or equipment Fall from piled material (include coal, rock, ore, or waste)
- Fall from ladders
- 14 15 Fall down stairs
- Fall to lower level NEC
- Fall to the walkway or working surface Fall onto or against objects 17
- 18
- Fall on same level NEC 19
- 20 Caught in-under-between running or meshing objects
- Caught in-under-between a moving and stationary object Caught in-under-between several moving objects
- 21 22
- Caught in-under-between collapsing material or buildings
- 24 25 Caught in-under-between NEC Rubbed or abraded NEC
- 26 Bodily reaction NEC
- 27 Over-exertion in lifting objects
- Over-exertion in pulling or pushing objects
 Over-exertion in wielding or throwing objects 28
- 29
- 30 Over-exertion NEC
- 31 Contact with electric current 32
- Contact with heat (atmosphere or environment) Contact with hot objects or substances 33
- 34 Contact with cold (atmosphere or environment)
- 35 Contact with cold objects or substances
- 36 Inhalation of various noxious substances Ingestion of various noxious substances
- Absorption of various noxious substances Flash burns (electric)
- 39 40 Flash burns (welding)
- 41 Drowning
- 42 Not elsewhere classified 43 Unclassified, insufficient data
 - Accident type without injuries

NATURE of INJURY/ILLNESS

- Variable Name: NATINJ
- Amputation or enucleation Asphyxia, strangulation, drowning, etc. 110
- 120 Burn or scald (heat)
- Burn, chemical 140 Concussion -- brain, cerebral
- Disease, contagious or infectious 150
- Contusion, bruise 170 Crushing
- 180
- Cut, laceration, puncture Dermatitis 190
- 200 Dislocation 210 Electric shock, electrocution
- 220 Fracture, chip Freezing, frostbite 230
- 240 Hearing loss or impairment
- 250 Heat stroke, sunstroke, heat cramps, etc. 260 Hernia, rupture
- 270 Joint, tendon, or muscle inflammation or irritation 280 Poisoning, systemic
- 290 Other pneumoconiosis NEC
- 291 Asbestosis 292 Anthracosis
- 293 Black lung (coal workers' pneumoconiosis)
- Silicosis
 Other radiation effects NEC 294 300
- 301 Non-Contact electric arc burn 302 Laser burn
- 303 Lung cancer, ionizing radiation
- 304 Sunburn 310 Scratches, abrasions (superficial wounds)

380

- 320 Dust in eyes Sprain, strains 330
- 340 Heart attack 350 Cerebral hemorrhage - NOT concussion
- 360 Electrical burn 370 Multiple injuries
- 390 Other injury NEC Unclassified, not determined

Occupational diseases NEC

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Reference Guide for Commonly Used MSHA Employment and Accident/Injury/Illness Data Codes and Descriptions

Reduced Set of Regular JOB TITLE (Occupation) -- Variable Name: JOBTITL2 (Variable discontinued and replaced with OCCUP beginning with 2013 data)

- Belt/conveyor man/crew Electrician/helper/wireman Hoistman/hoist engineer/helper
- Mechanic/repairman/helper
- Oiler/greaser Rock duster
- Shotfirer/shooter/blaster/helper
- Vent man/crew/stop blder/brattice man Supplier/warehouse man/supply driver
- Timberman/propman/steel setr/steel worker
- Cleanup man
- Laborer/utilityman/bull gang
- 20 21 Survey crew
- Welder
- Grizzlyman/chute puller/binman
- 23 Skip tinder/top loader/cager/station att
- 24 25 Bobcat
- Car dump/shake-out/roscoe/loaderhead op
- 26 27 28 Jack-leg/stoper oper./Rock driller Scoop car/tram/load haul dump operator
- 29 Mucking machine operator
- Battery charging station/fan attendant Drill helper; Chuck tender 31 33
- Drill operator (coal/wagon/diamond)
- 35 Continuous miner helper
- 36 37 Continuous miner operator Cutting machine helper
- Cutting machine operator
- 39 Hand loader 40
- Headgate operator Longwall jacksetter/snaker/helper
- Loading machine helper
- Loading machine/gathering arm loader opr Longwall operator (tailgate side) 43
- Rockman/hangup man/chute blaster
- Roof bolter (single head)
- Roof bolter helper (single head)

- Roof bolter mounted (left side)
- Supervisory/management/foreman/boss Shuttle car/ram operator (standard side)
- Tailgate operator
- Track man/track gang/tamping mach. Oper
- Brake man/rope rider/car dropper
- Stope miner
- Raise miner
- 62 Shopman/millwright/machinist/bit sharpnr
- Miner NEC/Ug miner
- 67 Shovel operator 68
- Bulldozer/tractor operator
- Motorman/swamper/snapper/switchman
- Grader operator
 - Truck driver Front-end-loader operator
- Driver/jeep/pickup
- Coal-m/nm sampler/technician/dust sampler
- Waterline man.plumber,carpenter/painter
- Unknown or NEC
- Belt man/conveyor crew/vulcanizer
- Electrician/helper/wireman Hoistman/hoist engineer/helper
- Mechanic/repairman/helper
- Oiler/greaser
- Shotfirer/blaster/shooter/helper
- Supplyman/warehouseman/supply driver 109
- Cement man/mason/bricklayer Laborer/utility man/bull gang
- Survey crew
- Welder/blacksmith
- Skiptender/dumper/cager/station att.

- Car dump/rotary dump/shake-out opr/helpr
- Jack-leg/stopper/rock driller
- Water attendant

- Battery station oper./fan attendant
- Drill operator coal/wagon/diamond Drill helper/chuck tender
- Scalper/screen/sizing/tipple plant worker
- Sizing/washing/cleaning plant opr/worker
- Supervisory/management/foreman/boss
- Shuttle/ram car operator
- Brake man/rope rider/car dropper
- Clam shell operator
- Shopman/millwright/machinist/bit sharpnr
- Miner NEC/Surface miner 163
- Dispatcher
- Forklift
- Shovel oper. (Stripping/loading) Bulldozer/tractor oper. 167
- 168
- Motorman/swamper/snapper/switchman
- Auger operator Auger helper
- Barge att/boat oper/dredge oper.
- Grader/road roller operator
- Truck driver
- Dragline/crane/backhoe oper. 178
- Dryer/kiln oper/worker
- Fine coal plant operator
- Front-end loader/high lift operator
- Driver/ieep/pickup
- Highwall drill oper/helper
- Lampman/building repair/maint/janitor Rotary bucket excavator operator
- Coal-m/nm sampler/dust sampler/lab tech 187
- Silo/train load out operator
- Union official/safety rep. 192 Engineer(elect/vent/mining)
- Weighman/scaleman/timekeeper/clerk
- Plumber/carpenter/painter
- 195 Inspector/fire boss/preshifter
- Watchman/guard
- Yard engine engineer/fireman Stone finishing/sizing personnel
- Unknown or NEC

STATE (FIPS Code for Location) Variable Name: STATE

- 33 New Hampshire Alabama
- Alaska New Jersey Arizona New Mexico
 - New York 36
 - North Carolina
 - 38 North Dakota
 - 39 Ohio Oklahoma
 - Oregon
 - 42 Pennsylvania
 - Rhode Island South Carolina
 - South Dakota
 - Tennessee
 - Texas Utah
 - 50 Vermont
 - Virginia Washington
 - West Virginia
 - Wisconsin 55 Wyomina
 - American Samoa
 - Guam
 - Northern Mariana Islands
 - Puerto Rico
 - 98 Contractor-no state

MINE TYPE

Variable Name: MINETYPE

- Underground nonmetal
- Surface metal
- Surface nonmeta
- Surface stone
- Mills nonmetal
- Mills stone
- Sand & gravel
- Underground coal
- Contractor (no specific mine type applies)

SOURCE of INJURY/ILLNESS Variable Name: SOURCINJ

- Animals, insects, birds, reptiles, (live)
- Bodily motion
- Boilers
- Bags
- Barrels, kegs, drums Boxes, crates, cartons
- Rubber, glass, plastic
- Containers NEC
- Brattice curtain Floor, walking surface
- Steps
- Storage tanks and bins Dams, locks, ponds, bridges, etc.
- Mine headframe Scaffolds, staging, etc. 16
- Towers, poles, etc.
- Wharfs, docks, etc. 18
- 19 Buildings & structures, boats & rafts NEC
- 20 Brick, ceramic Acids and alkalies
- Oxygen deficient atmosphere Noxious mine gases NEC 23
- Chemicals and chemical compounds NEC
- Apparel NEC, Ring
- 27
- Snow Cold NEC
- 30 Coal (processed) Kiln products
- Methane gas 33 Coal & petroleum products NEC
- Chutes and slides Belt conveyors
- Conveyors NEC 38 Motors

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37

- Generators 40 Transformers, converters
- Conductors, electric cables and trolley poles

Shaking and vibrating conveyor

- Electrical apparatus NEC
- Explosives
- Axe, hammer, sledge
- Crowbar, pry bar
- 50
- Wrench

- Power saw
- Drill, percussive Impactor, tamper
- Hand tools, powered NEC 58 Heat
- Kilns, melting furnaces, & retorts
- Other heating equipment NEC Cranes, derricks
- Air hoist 65 Chain hoist, chain blocks
- 66 Electric hoist
- Jacks (not longwall) Hoisting apparatus NEC 69
- 71 72 73 Liquids NEC
- Machines NEC, welder, office machines
- Belts (not conveyor)
- Chains, ropes, cables (not conveyor) Drums, pulleys, sheaves (not conveyor) 80
- Drill steel (all kinds) Roof bolts
- Steel rail (all sizes)

- Molten metal
- Metal covers and guards
- Metal NEC (pipe, wire, nails, manhole covers)

- Pulverized mineral
- Mineral items NEC

- Pumps, fans, compressors, engines, turbines NEC Radioactive ore
- Soaps, detergents, cleaning compounds NEC
- Highway ore carriers, other large trucks, buses 104
- Forklifts, stackers, tractors, etc
- Surface narrow gauge rail cars, motors, etc. Mine jeep, kersey, jitney (rail & nonrail), S&S tractor 107

111

- 112 Posts, caps, headers, timber 113 Blocking
- 118 Stairs, steps
- Working surfaces outside NEC 120 121 Back, mine roof, hanging wall
- Mine floor, bottom, footwall
- Miscellaneous NEC

- Connecticut Delaware 12 Florida
- Georgia 15 Hawaii Idaho Illinois

Arkansas

California

Colorado

- 18 Indiana 19 Iowa Kansas
- Kentucky 22 Louisiana Maine
- Maryland Massachusetts Michigan Minnesota
- Mississippi Missouri 30 Montana

32 Nevada

Nebraska

- Virgin Islands
- Underground metal
- Underground stone
- Mills metal
- Surface coal

- Flame, fire, smoke NEC
- Chisel
- 49 Knife
- Hand tools not powered NEC Abrasive stone or wheel grinder, buffer, polisher, waxer
- Drill, rotary
- Space heaters
- Elevators, cages, skips, etc
- Longwall supports (chocks and blocks)
- Movable ladders Ladders NEC
- Milling, cleaning plant, & breaker machines Surface mining machines Underground mining machines
- Mechanical power transmission apparatus NEC

- Broken rock, coal, ore, waste Caving rock, coal, ore, waste
- Landslide (surface only)
- Sand, gravel, shell Loose dirt & mud
- Noise NEC 96
- Plants, trees, vegetation
- Radiating substances of equipment NEC 100
- Passenger cars and pickup trucks 103
- Underground narrow gauge rail cars, motors, etc.
- Nonpowered vehicles (dollies, wheelbarrow, etc.) 110 Vehicles NEC Cribbing
- 114 Pallets 115 Railroad ties Wood items NEC
- 117 Ground Street, road
- Side or rib 122
- 124 Underground NEC 125 Cement products, concrete blocks, dry grout, etc. 126
- Notes: See the "MSHA Data User's Guide" for further information. Computed or recoded variables are outlined in RED. Codes applicable to Contractors in Address/Employment files are displayed in BLUE.

OCCUPATION of the Regular Job Title -- Variable Name: OCCUP (Variable replaced JOBTITLE and JOBTITL2 beginning with 2013 data)

- Beltman, Conveyor man and belt worker, Mobile bridge carrierman, Feeder operator, conveyor rider
- Electrician, Lineman
- Electrician helper
- Maintenance man, Mechanic, Repair/Serviceman, boilermaker, Fueler, Tire tech, Field service tech
- Mechanic helper
- Rock duster
- Blaster, Shooter, Shotfirer, Explosive worker, Powder gang/ monkey
- Stopping builder, Ventilation man, Mason man, Overcast
- Supply man, Supply worker, Nipper
- Timberman
- 11 Wireman, Communications man
- Fan attendant 15
- 16 Laborer, Bull gang, Faceman, Parts runner, Roustabout, Roof trimmer/scaler
- 24 Apprentice, Trainee
- Scoop car/Scooptram operator, Load/Haul/Dump (LHD) operator, Teletram operator
- Brattice man/worker
- 33 Drill helper
- Driller operator
- 35 Continuous miner helper, Coal mole helper, Bridgeman
- Continuous miner operator, Coal mole operator Cutting machine helper, Undercutter operator helper 36
- 37
- Cutting machine operator, Ripper, Universal operator
- 39 Hand loader, Hand trammer
- 40 Headgate operator
- 41 LW Propman, Propman helper, Move crew if LW, Move-up man, Jacksetter, Advanceman LW helper
- 42 Loading machine/Gather arm loader helper
- Gathering arm loader operator, Loading machine operator, 43 Joy loader operator
- Longwall operator, Chock operator, Shear operator, Plow 44 operator
- 45 Chute blaster, Rockman, Hang-up man, Raise blaster
- Roof bolter, Rock bolter, Pinner, Mobile roof support operator
- 47 Roof bolter helper. Rock bolter helper. Pinner helper
- Roof bolter (Mounted) (Return side)
- Section foreman, Bullgang foreman, Labor foreman, 49 Leadman, Shift boss
- Shuttle car operator, Mantrip operator, Ramcar operator, Rail 50 runner, Buggy operator
- 52 Tailgate operator
- Utility man, Errand boy, Service truck operator
- Discontinued 1/31/2014. Several other codes cover Scoop Car Operator
- Ledgeman/hand, Quarry man 63
- Power shovel operator 67
- Bulldozer operator, Universal operator, Heavy equipment operator, Operating engineer
- 70 Auger operator, Auger Crew Supervisor
- Grader operator
- 76 Truck driver
- Backhoe operator, Trackhoe operator, Crane operator 78
- Front-end loader operator
- Shaftcrew, Shaft repair, Skip tender, Station tender
- 99
- Miner, NEC

 Beltman, Conveyor man and belt worker, Mobile bridge carrierman, Feeder operator, Conveyor rider 101
- 102 Electrician, Lineman
- Electrician helper 103
- Maintenance man, Mechanic, Repair/Serviceman, 104 Boilermaker, Fueler, Tire tech, Field service tech
- 105 Mechanic helper 106 Rock duster
- 108
- Stopping builder, Ventilation man, Mason man, Overcast Supply man, Supply worker, Nipper
- 110
- Timberman
- Wireman, Communications man 112 Belt vulcanizer
- Cleanup man, Cleanup worker
- Coal sampler Laborer, Bull gang, Parts runner, Roustabout, Roof trimmer/ 116
- scaler 117 Rodman, Surveyor/Transit helper
- 118
- Greaser, Grease man, Oiler, Lube man, Dragline oiler 119 Welder
- Coal dump operator 123
- Transit man, Surveyor/Transit worker
- 124 Apprentice, Trainee
- 128 Scoop tram operator, Load/Haul/Dump operator
- Roof bolter, Rock bolter, Pinner, Mobile roof support operator (MRS)
- Bull gang foreman, Labor foreman, Leadman, Section 149 foreman, Shift boss
- Belt cleaner, Picker 154 Rock driller
- Pumper

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Water line man

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- 160 Shopman
- 163
- Ledgeman/hand, Quarry man
- Bulldozer operator, Universal operator, Heavy equipment 168 operator, Operating engineer
- 170 Car loader

- Grader operator
- 176 Truck driver
- Backhoe operator, Trackhoe operator, Crane operator Front-end loader operator 178
- 182
- Shaftcrew, Shaft repair, Skip tender, Station tender
- 199 Miner, NEC
- 201 Beltman, Conveyor man and belt worker, Mobile bridge carrierman, Feeder operator, Conveyor rider
- 216 Trackman, Track worker, Track gang
- Cage/Cager/Station attendant Hoistman, Hoist operator 220
- 221
- Underground transportation trainee
- Loader head operator, Roscoe operator 240
- 250 Shuttle car operator, Mantrip operator, Ramcar operator, Rail runner, Buggy operator
- Brakeman, Roperider, Car runner, Spotterman, Snapper, Trip rider, Car rider, Flagman
- 265 Dispatcher 269
- Motorman, Motor person, Swamper, Switchman, Locomotive operator
- Driver, Jeep driver, Tractor operator
- 289 Shaftcrew, Shaft repair, Skip tender, Station tender Miner, NEC
- Beltman, Conveyor man and belt worker, Mobile bridge carrierman, Feeder operator, Conveyor rider
- 302 Electrician, Lineman Electrician helper
- Maintenance man, Mechanic, Repair/Serviceman, Boilermaker, 304 Fueler, Tire tech, Field service tech
- 305 Mechanic helper
- Welder (non-shop)
- 307 Blaster, Shooter, Shotfirer, Explosive worker, Powder gang/ monkey
- 309 Supply man, Nipper
- 310 Scraper-loader operator
- Wireman, Communications man
- Belt vulcanizer
- 313 Cleanup man, Cleanup worker
- 314 Coal sampler 315
- Fan attendant Laborer, Blacksmith, Bull gang, Parts runner, Roustabout, 316
- Pick-up man, Pitman Rodman, Surveyor/Transit helper 317
- Greaser, Grease man, Oiler, Lube man, Dragline oiler
- Welder (shop) 320
- Cage/Cager/Station attendant, Aerial tram (outside only) Hoistman, Hoist operator 321
- Coal strip operator
- 323 Transit man, Surveyor/Transit worker 324 Backhoe operator, Trackhoe operator
- Forklift operator 327

326

- Utility man, Shift tech, Service/Dump truck operator 328
- Vacuum filter operator, Flotation mill/Concentrator operator. 329 Flotation plant operator
- 331 Clam/Clamshell operator, Claw operator
- 333 Drill helper
- 334 Drill operator
- Boom operator
- Bit sharpener, Bit grinder, Grinder Car trimmer, Car loader, Bin puller, Truck loader Crusher attendant/operator, Pan feeder operator/worker 347 Froth cell operator, Flotation mill operator, Concetrator
- operator 348
- Machinist
- Rotary dump operator, Car dump operator Shuttle car operator, Mantrip operator, Ramcar operator, Rail
- runner, Buggy operator
- 351 Scoop tram operator, Load/Haul/Dump operator 352 Steel worker, Iron metal worker, Iron worker
- 353 Trespasser 354
- Sweeper operator
- Chainman, Surveyor/Transit helper 355 356 Rock driller
- 357 Washer operator, Sizing operator
- Water circuit operator, Slurry operator, Mix operator, Pump 358 operator worker
- 360 Shopman repair cars, Mechanic 362 Brakeman, Roperider, Car runner, Spotterman, Snapper, Trip
- rider, Car rider, Flagman Ledgeman/hand, Quarry man 363
- 364 Janitor
- Dispatcher 365
- 366 Waterboy
- Coal/ore shovel operator, Shoveler, Power shoveler
- Bulldozer operator, Universal operator, Heavy equipment operator, Operating engineer
- Motorman, Motor person, Swamper, Switchman, Locomotive
- 370 Auger operator, Auger Crew supervisor
- 371 Auger helper
- Barge/Boat/Dredge/Towbarge/Towboat/Leach operator, Riverman, Deck hand
- 373 Car dropper, Car shake out operator
- Warehouseman, Bagger, Palletizer/Stacker, Storekeeper, 374 Packager, Fabricator, Cleaning plant operator
- 375 Grader operator, Roadgrader operator

- 376 Haul/Off road/Coal/Ore/Pit/Quarry/Rock/Rubber tire truck driver, Transportation truck driver
- Crane operator, Mobile equipment operator (MEO), Dragline operator, Dropball operator, Rigger 378
- Dryer operator, Kiln operator, Dry plant operator, Fluid
- operator, Bed dryer operator
- 380 Fine coal plant operator
- Hoist operator helper 381

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- Front-end loader, Scraper-loader operator, Pan operator, 382
- Payloader, Scraper rig operator Driller, Highwall helper, Highwall drill helper 383
- Driller, Highwall operator, Highwall drill operator
- Lampman, Lamp person Refuse truck driver, Backfill truck driver, Stock pile truck 386 driver
- Rotary bucket excavator operator 388
- Scalper-screen operator Shaft repair, Skip tender, Station tender 389
- Silo operator, Bin puller, Truck loader
- 391 Boomcat operator, Stripping shovel operator 392 Tipple/Top lander/Skip dumper operator, Binman, Topman
- 393 Weighman, Scale person
- Carpenter 395 Water truck operator
- 396
- Security guard, Watchman Fireman locomotive, Railroad clam operator, Timekeeper, 397
- Yard engine operator 398 Groundman, Yardman
- 399 Miner, Prospector, NEC
- 402 Master electrician
- Master mechanic, Foreman, Supervisor 414 Quality control technician, Laboratory technician, Laboratory assistant
- Belt foreman, Maintenance foreman, Maintenance supervisor
- Draftsman, Surveyor/Transit work supervisor 423 430 Assistant mine foreman. Assistant mine manager
- Mine manager, Mine foreman, Mine owner 456 Assayer, Geologist, Metallurgist, Engineer, Engineer
- management Examiner, Fire boss, Pre-shift examiner, Mine examiner
- 462
- 464
- 481 Superintendent 489 Outside foreman, Leadman
- 494 Prep plant foreman, Supervisor, Mill plant supervisor, Kiln
- 495 Safety director 496 Union representative
- 497 Clerk, Timekeeper, Office worker, Director of sales
- 590 Education specialist Mineral industrial safety officer 591
- 592 Mine safety instructor 593 Safety representative
- 594 Training specialist
- 601 Stoper miner 602 Drift miner
- 603
- Raise miner 604 Mucking machine operator
- 605 Slusher operator Wagon drill operator, Air-track driller, Carriage mounted drill
- 615 Rotary drill operator (electric/hydraulic) Diamond drill operator, Core driller, Exploration driller, 618 Longhole driller, Prospect driller
- 619 Drill helper, Chuck tender Hand scaler 620
- Raise borer operator Ground controller 631
- 632 Cement worker, Concrete worker, Form man, Mandoseal mar Hangup worker, Chute blaster 634
- Shotcrete, Gunite worker 635
- 636 Sandfiller (dry) Sandfiller (wet), Slurry operator 637
- Mechanical scaling worker 638 Skip tender, Station tender 639
- Ball/Rod/Pebble/Hand/Limestone/Dry mill operator, Roller 640
- operator
- Polish/Saw operator, Splitter, Cutter, Trimmer
- 646 Leaching operator
- Pelletizing operator 647
- 660 Ramcar operator
- 664 Hand trammer
- Building repair man, Maintenance 672
- 678
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- Hammer mill operator, Breaker mill operator, Jaw mill operator Stone finishing and sizing personnel, Stone/Rock cut/
- Hydrate plant operator 643 Dry screening plant operator, Screen house operator
- Bagging, Package operator 648 Refinery worker
- Grizzly worker, Grizzly tender, Grizzlyman, Chute puller, Chute tappe Janitor

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- Lab Technician
- 674 Warehouse, Supply handler 675 Plumber, Pipefitter, Millwright
- 677 Bobcat operator
- 679 Jackhammer operator, Chiphammer operator