

INDEX

-A-

Abrasive blasting	112, Q-1, Q-39
equipment	268
Access 35, 103, 104, 123, 125, 135, 166, 210, 243, 255, 275, 299, 335, 340, 342, 347, 349, 382, 383, 384, 385, 395, 397, 405, 406, 407, 409, 411, 421, 423, 427, 429, 432, 434, 455, 469, 479, 480, 484, 493, 494, 499, 507, 512, 526, 429, 530, 537, 548, 569, 570, 576, 587, 590, 605, 606, 625, A-5, B-6, C-16, J-3, J-6, J-7, J-11, Q-6, Q-16, Q-58, Q-76, S-14,	
roads	147, 548
Accident prevention	
piping	137
plan	2, 4, 7, 10, 14, 532, A-1, Q-1
signals	144, 145
signs, tags, labels	137, 153, 158
Accidents	1, 11, 15-16, 18, 140, 149, 241-243, A-4, B-11, B-12, Q-2
Activity hazard analysis - see hazard analysis	
Aerial lift	223, 234, 235, 241, 242, 243, 472, 473, 634, 639, Q-2
Air-purifying respirator	57, 58, 60, 62, Q-2, Q55
Aircraft	132, 357, 367, 594, 641-643, Q-43
Airfield operations	641
Alarm systems	191, 192, 375, 585, 625
All terrain vehicles (ATVs)	366
Alternating current dielectric test	77
Altitude dive tables	15, 615
Antimony	199
Arc welding and cutting	197, 204, 205
cables and connectors	205
Arsenic	199
Asbestos	4, 92, 94, 95, 477, A-5, B-12, S-14
Assured equipment grounding conductor program	219
Attachment plugs and receptacles	213
Automatically darkening lenses	48
Automatic External Defibrillator (AED)	32, 33
Automatic feeding devices	264

-B-

Backup alarms (Reverse signal alarms)	296, 358, B-5
Barium	199
Batteries and battery charging	225
Beryllium	199
Blasting	589
air blast pressure	600
black powder	593
blasting machines	591
circuits	603, 604, 605, Q-7
detonating cord	591, 602, 603, 608, Q-22, Q-55
detonators	590, 591, 595, 597, 598, 601, 603, 604
drilling	600, 601, 606, 608, 609, Q-24,
electromagnetic radiation	247, 598, Q-49
energy ratios	598, 599
explosives 42, 185, 363, 365, 478, 489, 511, 518, 529, 533, 534, 535, 589, 590, 602, 603, Q-19, Q-28, Q-55	
explosives, handling,	597
explosives, storage	593
explosives, transportation	594, 595

firing.....	605
lightning.....	590, 593
loading.....	600
misfires.....	607
<u>mud capping.....</u>	<u>Q-48</u>
peak particle velocities.....	599
post-blast procedures.....	607
safety plan.....	589
scaled distances.....	600, <u>Q-54</u>
static electrical discharges.....	590
underground.....	598, 601
underwater blasting.....	608
vibration and damage control.....	598
warning signs.....	<u>597</u> , 606
wiring.....	603
Body belt/harness systems.....	75, <u>77</u> , 417, 418, 461, <u>Q-7</u> , <u>Q-29</u> , <u>Q-44</u> , <u>Q-54</u> , <u>Q-75</u>
Boiler and Pressure Vessel Code.....	393
Boilers.....	401
Boom - see cranes and derricks	
Brush chippers.....	636
Brush removal and chipping.....	636
Burning operations.....	165, <u>201</u> , <u>527</u> , <u>B-9</u>

-C-

Cadmium.....	199
Cage boom guards.....	224
Caissons - see underground construction	
Carbon monoxide.....	69, 625, 626
Carbon tetrachloride.....	186
Cardiopulmonary resuscitation.....	27, 615
Caution signs.....	139, <u>140</u> , <u>189</u>
Cement.....	273, <u>275</u>
Chain.....	284
Chain saws.....	<u>42</u> , 268
Change rooms.....	24, <u>C-10</u>
Chemical agent.....	56
Chopping tools.....	639, <u>640</u>
Christmas tree lifting.....	280, <u>Q-12</u> , <u>Q-49</u>
Chromium.....	199
Circuit breaker.....	214, <u>215</u> , <u>218</u> , <u>219</u> , <u>232</u> , <u>Q-12</u> , <u>Q-27</u>
Classified locations - see hazardous (classified) locations	
Cobalt.....	199
Code for Unfired Pressure Vessels.....	397
Cofferdams.....	<u>410</u> , 499, <u>598</u>
Combustible liquid.....	<u>164</u> , 168, <u>169</u> , <u>170</u> , <u>171</u> , <u>172</u> , <u>173</u> , 276, <u>402</u> , <u>410</u> , <u>Q-12</u> , <u>Q-13</u>
Communication facilities.....	247
Compressed air.....	<u>14</u> , <u>15</u> , <u>69</u> , <u>397-400</u> , <u>531</u> , <u>533</u> , <u>606</u> , <u>A-6</u> , <u>C-10</u> , <u>C-15</u> , <u>Q-72</u>
blasting.....	520, 529, <u>535</u>
work/work plan.....	532
Compressed gas.....	<u>69</u> , <u>397</u> , <u>404</u> , <u>Q-6</u>
cylinders.....	<u>164</u> , <u>402</u> , <u>403</u>
Compressed gaseous oxygen, liquid air, or liquid oxygen.....	69
Compressors.....	70, <u>71</u> , <u>218</u> , <u>397</u> , <u>398</u> , <u>519</u> , <u>625</u> , <u>626</u>
Concrete work.....	<u>37</u> , <u>180</u> , <u>219</u> , <u>267</u> , <u>342</u> , <u>398</u> , <u>406</u> , <u>417</u> , <u>425</u> , <u>524</u> , <u>537-544</u> , <u>547</u> , <u>548</u> , <u>J-3</u> , <u>Q-10</u> , <u>Q13</u>
Confined space.....	113-125
see permit-required confined space	

Construction areas	52 , 135, 144, 514
Contact lenses.....	44
Contract diving operations.....	611
air compressor systems	625
altitude dive tables.....	615
bell	623
breathing air supply hoses	626
briefing.....	618-620
decompression sickness/pulmonary barotrauma barotraumas	619
dive log	618, 620
dive operations plan	613, 615
dive teams.....	620
divers.....	611
emergency and first aid equipment.	628
equipment.....	625
mixed-gas diving	624
power tools	628
pre-dive conference.....	616 617
safe practices manual	613
SCUBA diving operations.....	620
surface supplied air	611, 626
surface supplied air operations	622
Control of hazardous energy - see hazardous energy	
Conveyors	347- 350 , 352-355 , 515 , 525 , E-9 , E-13 , Q-51
Copper.....	199
Cranes and derricks	303
anti-two block (upper limit) device.....	317, 323
boom, angle/radius indicator	329
boom, assembly and disassembly	320
boom, hoist disengaging device.....	320
boom, stops.....	319
communication	310
crawler-, truck-, wheel-, and ringer-mounted cranes	317
critical lifts.....	315
derricks.....	332
design and construction standards	308
drum rotation indicators.....	318
duty cycle	317, 329
environmental considerations	316
floating.....	324, 329
gantry.....	331
helicopter	334
inspection criteria	311
inspections, frequent	312
load indicating device.....	317
load moment indicator.....	317
load performance test	314
luffing jib cranes	323
mobile.....	309, 352, 436, 514, 517
monorails.....	332
on-rubber rating.....	321
operators	306
operational performance test	313
operators, examination and qualification.....	307
outriggers	320
overhead	271 , 297, 314 , Q9 , Q-17

performance tests.....	313
periodic inspections.....	337
pillar.....	321
portal.....	321
tandem/tailing crane lifts.....	316
testing requirements.....	313
tower(hammerhead).....	323
under hung.....	332
Cumulative trauma prevention.....	129
Cutting, arc and gas.....	<u>202-204, 263, 264</u>

-D-

D-rings.....	75
Debris nets.....	420
Demolition.....	477
engineering survey.....	477
mechanical.....	484
plan.....	477
Derricks - see cranes and derricks	
Detonating cord.....	591
Diesel fuel.....	526
Disconnects.....	214
Diving.....	611
see contract diving operations	
Dose Limits.....	100
Dosimetry.....	100, 102, <u>103, Q-24</u>
Double insulation.....	217
Dredging.....	388
hopper dredges.....	390
pipeline.....	388
Drilling equipment.....	342, <u>344, 345</u>
Drilling machines.....	528
Drinking water.....	19, <u>20, 126, 390, B-1</u>
Dump trucks.....	<u>357, 361, B-5</u>
Dust ...	<u>30, 42, 46, 54, 56, 66, 89, 109, 111, 112, 113, 148, 150, 166, 191, 200, 226-228, 275, -335, -346, 399, 519 522, 523, 524, 535, 590, 601, C-2, C-8, C-9, C-10, C-11, C-12, C-15-17, Q-25</u>

-E-

Electrical.....	209
conductors.....	210
conductors, overhead.....	222
conductors, stringing.....	237
electrical protective equipment.....	77
isolation.....	209
overload protection.....	214
substations.....	245
storms.....	242
temporary wiring and lighting.....	220
underground electrical installations.....	244
Electromagnetic.....	247
Elevating work platform.....	470, <u>471, Q-26</u>
Emergency	
descent devices.....	430
lighting and power systems.....	374
medical technician.....	33
operations.....	41, <u>B-1-4, B-11, B-12, H-2</u>

planning	17
response	579
Enclosed spaces	198, 260, Q-66
Engineering/administrative controls	29, 87
Environmental monitoring	95, 128, C-8
Epoxy resins	29
Excavations	9, 346, 489, 494, 495, 502, 503, 642, A-6
Class I perimeter protection	493
Class II perimeter protection	493
Class III perimeter protection	493
inspection and testing	489
mobile equipment and motor vehicle precautions	492
protection from falling material	492
protection from water	491
protective systems	490
shield systems	498
sloping and benching	495
trenching	498
Explosive-actuated tools	266, 267
Explosives	365, 533
Handling	511
Eye and face protection	42, 44, 47, 48, 78

-F-

Face masks and hoods	48, 97
Facial hair	63
Fall protection.. 9, 80, 82, 379, 391, 405, 410, 411, 415, 417, 419, 429, 431, 449, 454, 455, 461, 471, 473, 493, 528	
warning line systems	554, 567, 568, 569, 571, 572, 573, A-6, Q-35, Q-44, Q-52, Q-53 574
personal fall arrest systems and positioning devices	75, 415
safety nets	82, 238, 403, 410, 415, 418, 419, 420, 429, 551
Falling object protective structures	300, 301, S-11
Fencing	35, 36, 348, 512, 512, B-5, B-12
Fire	
alarm systems	191
blankets	186
detection systems	191
extinguishers	184
extinguishers, approved	184
extinguishing, chlorobromomethane	186
extinguishing systems, fixed	189
fighting equipment	190
fighting organizations, training and drilling	192
lanes	166
patrols	193
prevention and protection	163
prevention and protection plan	163
protection, first response	184
protection, in the construction process	167
protection, standpipe and hose system	186
suppression systems, fixed	189
First aid	18, 27
attendant	33
facilities	28, 510
kits	30

station	32
Fit testing - see respirators	
Flag and signal persons	146
Flammable	
atmosphere	267
gases	267
liquid	92
materials	267
Flammable and combustible liquids	92, <u>164</u> , 168, 174
portable tanks	169
storage cabinet and areas	170
storage tanks	170
storage, underground	164
Flashlight	42, 172, <u>502</u>
Flexible cords	210
Floating cranes and derricks - see cranes and derricks	
Floating plant	<u>36, 82, 83, 145, 214, 221, 224, 245</u> , 369, <u>371-375, 377-380, 383, 384, H-5, H-9, Q-31</u>
Access	382
escape hatches and emergency exits	376
inspection and certification	369
personnel qualifications	370
see dredging and launches, motorboats, and skiffs	
Floor and wall holes and openings	487, <u>553</u>
Floor removal	483
Fluorine	200
Flying objects, protection against	79, 300
Foodservice	24, <u>25</u>
Formwork	<u>198, 398, 408, 539, Q-58</u>
Fueling	<u>168, 173, 174, 176, 179, 181, 295, 365</u> , 527
Fuses	213, <u>215</u> , 597

-G-

Gas metal arc welding	206
Gassy operations	516, <u>517, 519, 523, 524</u>
Generators	
frame grounding - see grounding	
portable and vehicle-mounted	215, <u>216, 219, 314, 374, 381, Q-33, S-9</u>
Glare-resistant glasses	48
Grinding and abrasive machinery	<u>45, 111, 261, 262, 545, B-10, Q-25, Q-39</u>
Ground/grounding	215
Electrode	205, 217
frame grounding	<u>217, 216</u>
protective	217
Guardrails	<u>82, 299, 365, 379, 409, 411, 414, 431, 434, 474, 494, 528, 537, 572, 573, 576, Q-52, S-17</u>

-H-

Hand protection	42
Hand signals	145, 159-161, <u>311</u>
Hand tools	<u>218</u> , 259, <u>430</u>
Hand-arm vibration	129, 131
Hand lamps, portable	213
Handrails	<u>385, 409, 411</u> , 414, <u>415, 425, 429, 547</u>
Harmful plants, animals, and insects	97
Haul roads	147, <u>149, 294</u>
Hazard analysis	3, 5, 6, 8
position hazard analysis	3, 5, 6

Hazard communication.....	12, A-5, S-14
Hazardous classifications - see gassy operations and potentially gassy operations	
Hazardous locations.....	166
Hazardous energy, control.....	249
full personnel protection.....	250
plan.....	251
procedures.....	251
Hazardous materials.....	169, 170, 197, 202, 391, 392, A-5, C-16
Hazardous substances, agents, environments.....	87
Hazardous, toxic, and radioactive waste.....	106
Head protection.....	52, 78
Hearing	
conservation.....	50
protection.....	48
Heat/cold stress monitoring plan.....	126
Heating devices.....	95, 178
gas.....	182
LP-Gas.....	183
natural gas.....	182, 197
open-flame heating devices.....	179
positive operating procedure.....	179
Herbicides.....	23
Hoisting.....	341
ropes.....	279, 310
Hooks 75, 76, 280, 284, 288, 315, 334, 380, 445, 453, 515, 531, 549, 550, 640, F-5, H-1, H-6, H-8, K-23, Q-35	
Hot or molten substances.....	95
Hot stick distances.....	230, 231
Hot tapping.....	202, Q-39
Hot work permits.....	96
Housekeeping.....	93, 95, 153, 163, 164, 336, C-7, C-10, 275
Hydraulic	
fluid.....	234, 260, 526
tools.....	234, 260
Hydrocarbons.....	29, 626
Hydrogen sulfide.....	519
Hydrostatic testing.....	393

-I-

Immediately dangerous to life or health.....	56, Q-39
Impalement hazards.....	493, 537
Inclement weather.....	126, 365
Indoctrination.....	11, A-3
Industrial hygienist.....	87, 89, 580
Infirmaries.....	32
Insecticides.....	23
Insects.....	25
Insulating	
links.....	224
mats.....	212
Intrinsically safe.....	226, Q-41
Ionizing radiation.....	98
safety committee.....	99
warning signs, labels, signals.....	139

-J-

Jumbos 528, [529](#)

-L-

Labels 105, [137](#), [142](#), [143](#), [422](#), [H-6](#), [H-9](#), [S-12](#)

Ladders.. [95](#), [119](#), [135](#), [197](#), [198](#), [234](#), [235](#), [340](#), [365](#), [382](#), [383](#), [384](#), [397](#), [405](#), [410](#), [421](#), [424](#), [429](#), [430](#), [432](#), [472](#), [473](#), [474](#), [479](#), [494](#), [530](#), [532](#), [547](#), [B-7](#), [H-6](#), [J-all](#), [Q-42](#), [Q-43](#), [Q-51](#)

 jacks 430, 498, 505

Lanyards..... [75](#), [76](#), [77](#), [417](#), [454](#), [A-4](#), [Q-4](#), [Q-54](#)

Lasers 108, [110](#)

 caution and danger signs 156

Launches, motorboats, and skiffs [82](#), [381](#), 385, [386](#)

Lead 4, 92, [93](#), [94](#), 199, 329, [477](#), [A-5](#), [B-12](#)

Licensed physician 14, 28, 32, 612, 630, [B-2](#), [B-3](#), [C-4](#)

Licensed physician's assistant 33

licensed practical nurse..... 33

Lifeline 75, [77](#), 417, [418](#), [445](#), [454](#), [Q-4](#), [Q-8](#), [Q-29](#), [Q-38](#), [Q-43](#), [Q-44](#), [Q-53](#), [Q-54](#), [Q-58](#), [Q-59](#), [Q-60](#)

Life ring [82](#), [83](#)

Life saving and safety skiffs 84

Lift trucks 235, 296, S-4

Lift-slab operations 545

Lifting - see safe lifting

Lighting 133

Lime 29, 273, 275

Limited access zone 570

Lineman's equipment 77

Liquefied petroleum gas (LP-Gas) 174

 container valves 175

 containers 175

 hose..... 178

 multiple container systems 176

 safety devices..... 175

 shut-off valves 178

Live boom 458

Live-line bare-hand..... 241-243, Q-45

Lockout and tagout ([Control of Hazardous Energy](#)).....[249](#)

 devices 250, 254

 procedures 251, 292, 347

 see hazardous energy

Long-bed end-dump trailers 303

-M-

Machinery and mechanized equipment 291

Manganese..... 199

Manual on Uniform Traffic Control Devices

 for Streets and Highways 138, 145, 147, 150, S-2, S-19

Marine activities..... 369

Masonry construction 570

Material

 handling, storage, disposal 271

 hoists 336

Material Safety Data Sheets..... 12, 89, 91, 124, A-4, [A-5](#)

Medical 27

 facilities..... 11, 27, 32

fitness examinations.....	93, 95, 630, B-3
surveillance	93, 95, 107, 112, 131, 195, 583, C-4
Medically determined qualified.....	39
Melting kettles	95
Mercury.....	199
Methane.....	516-523, <u>521-522</u>
Miners' lights.....	42
Motor vehicles	357

-N-

National Board of Boiler and Pressure Vessel Inspectors	393, S-23
Navigation locks	<u>81, 374</u> , 391
Nickel	199
Noise hazard areas	51
Nominal dimension.....	Q-49
Non-ionizing radiation.....	<u>108</u> , Q-49
Nonmetallic sheathed cable	Q-49
Non-sparking tools	260, 597

-O-

Operators.....	14, 296, 306, 307, 362, 370, 387, G-1
Outrigger beams.....	<u>242, 320, 321, 340, 345, 397, 432, 437, 446, 453, 457, 471, 472, 474, 549, I-2, I-8, I-9, I-15, I-16, Q-20, Q-63</u>
Over current	
device	214
protection.....	214
Overhead guards.....	297, 299, 300, 338, 409, 411, 452, 492, 567
Oxy fuel gas cutting and welding	202-204
Oxygen cylinders	202, 404
Oxygen deficient atmosphere	57, <u>412</u> , 490, 519, 520, Q-36, Q-51
Oxygen enriched atmosphere	69, 200, Q-51
Ozone.	199

-P-

Paint barges	170
Paints	131, 164, 172, 265, B-12
Permit-required confined space	113-114
entry procedures	121
program	119
Personal fall protection - see fall protection	
Personal floatation devices	80-81
lights	80
Personal protective equipment	
.....	77, 80, 204, 246, 416
clothing	93
footwear.....	41
see specific type	
Physical qualifications	13, G4
Physicians - see licensed physician	
Pile driving.....	Q31, Q72
Planking.....	408, 431
Plants, poisonous	98
Platforms	429, 449
Positioning device - see fall protection	
Post-tensioning.....	537
Potentially gassy operations.....	516-524

lines - see electrical conductors	
transmission and distribution.....	182
Pre-cast concrete operations	544, <u>547</u>
Preparatory inspection	250
Preservative coatings	198
Pressurized equipment and systems	393
Process safety management.....	91
Project safety and health plan.....	3, 7, 41, 52, 126, <u>A-1, A-6</u>
Public	<u>35, 36, 99, 104, 107, 112, 137, 142, 145, 148, 192, 194, 195, 197, 220, 255, 293, 301, 349, 354, 361, 370, 388, 493, 571, 594, 594, 586, A-7, B-1, B-4, B-5, B-6, B-7, B-10, B-11, B-12, Q-2, Q-11, Q-3, Q-35, Q-66</u>

-R-

Radiant energy	48, 206, <u>Q-57</u>
Radiation... ..	<u>42, 44, 45, 98, 100, 103, 104, 105, 106, 107, 108, 110, 129, 142, 154, 202, 206, 247, 580, 581, 598, B-12, Q-1, Q-28, Q-35, Q-38, Q-41, Q-49, Q-57, Q-58, Q-78</u>
monitoring.....	102
safety officer	98
safety program	99
Radio frequency radiation warning symbol	155
Radio/cassette.....	292
Radioactive Waste Disposal.....	106
Rail clamps	323
Railing (guardrails and handrails)	426
Ramps.	427, 494
Registered nurse	33
Reinforcing steel.....	538
Rescue	124
Respirators.	<u>30, 54, 55, 56, 57-74, 89, 93, 95, 104, 105, 197, 198, 199, 200, 207, 509, A-5, B-3, B-8, C-1, C-5, C-7, C-8, C-9, C-11, C-12, C-14, C-15, C-16, C-17, Q-2, Q-5, Q-21, Q-26, Q-27, Q-28, Q-30, Q-38, Q-39, Q-46, Q-49, Q-54, Q-55, Q-57, Q-58, Q-64, Q-65, Q-71, Q-74, Q-77</u>
atmosphere-supplying.....	68
canister and cartridge type, air-purifying.....	Q-2
emergency use self-rescuer devices.....	57, 68
fit testing	61
negative-pressure.....	60
positive-pressure	Q-54
self-contained breathing apparatus.....	Q-64
<u>supplied air</u>	<u>622</u>
Respiratory protection 54,	<u>60, 61, 62, 73, 93, 95, 104, 105, 199, 200, A-5, B-8, C-8, C-9, C-11, C-12, C-14, C-15, C-16, C-17, Q-27, Q-28, Q-38,</u>
devices - see respirators	
program	54
Reverse-flow check valve.....	204
Reverse signal (back-up) alarm	<u>296, 298, 358, B-5</u>
Rigger	<u>305, 315, 329, 550, G-2</u>
Rigging	287, 456
Drums.....	287
fiber rope	284
inspections	279
hardware	287
slings	285
wire rope.....	280
Ring buoys	82
Rodents	25
Rollover protective structures (ROPS).....	301, 367

Roofing	571
brackets	574
personal fall arrest systems	415
Rope - see rigging	
Runways	338, 427

-S-

Safe lifting techniques	271
Safety	

belt	Q-59
<u>blocks</u>	<u>83</u>
can	172
control	148
devices	175, 298, 348
equipment	39
harness	75
lashing	265, <u>268</u> , <u>396</u>
nets - see fall protection	
skiff	<u>82</u> , <u>83</u> , <u>84</u> , <u>85</u> , <u>381</u> , <u>385</u> , <u>386</u> , <u>461</u>
tire rack/cage	299, 361
(relief)valves	396

Safety and health program	1
---------------------------------	---

Sampling	88
----------------	----

Sanitary facilities	90
---------------------------	----

Sanitation	19
------------------	----

Saws - see woodworking machinery

Scaffolds <u>83</u> , <u>182</u> , <u>134</u> , <u>206</u> , <u>236</u> , <u>272</u> , <u>383</u> , <u>397</u> , <u>410</u> , <u>415</u> , <u>417</u> , <u>430</u> , <u>431</u> , <u>434-437</u> , <u>439</u> , <u>442</u> , <u>485</u> , <u>490</u> , <u>492</u> , <u>570</u> , <u>581</u> , <u>L-1 thru L-37</u> , <u>Q-59</u>	
--	--

access	432
bracket	433
capacities	430
carpenter's bracket	463
design	430, <u>464</u>
form	463, <u>465</u>
horse	467
independent pole scaffolds	443
lean-to and prop-scaffolds	430
manually-operated hoists	448
manually propelled mobile scaffolds	436
metal	433
metal frame	436
pump jack	468
suspended	443, <u>444</u> , <u>452</u> , <u>454</u> , <u>466</u> , <u>467</u>
suspended, hoisting machines	447
suspended, mason's multiple-point adjustable	452
suspended, stonemasons, multiple-point adjustable	453
suspended, support devices	445
suspended, support ropes	445
suspended, support systems	443
suspended, two-point	452
tube and coupler scaffolds	434
wood pole	437

Scaffolds, platforms, or temporary floors	L-1, L39, 407, 429, 449, 455, 470
---	-----------------------------------

Seatbelts	<u>300</u>
-----------------	------------

Selenium	199
----------------	-----

Service/refueling/lubrication areas	168, 184
---	----------

Severe weather	371
Shackles	287
Shafts - see underground construction	
Sheaves.....	289
Shoring	<u>198, 429, 480, 490, 491, 498, 512, 535, 539, 540-544, A-6, Q-56, Q-66, Q-72, Q-76, S-24</u>
Showers.....	24
Signal systems, personnel, procedures	145
see spotter	
Signs. <u>1, 14, 36, 52, 53, 61, 67, 72, 104, 105, 108, 137-145, 147, 150, 164, 168, 189, 210, 244, 245, 247, 276, 344, 348, 349, 352, 353, 437, 354, 379, 380, 388, 480, 507, 512, 517, 525, 523, 537, 549, 572, 590, 601, 606, 619, B-4, thru B-8, B-10, B-11, C-5 thru C-7, H-1, H-4, H-7, S-2, S-13</u>	
Silica	113, 346, C-1
Silver	199
Slings - see rigging	
Slip forms.....	542
Sloping/benching - see excavation	
Slow-moving vehicle emblem.....	142, 157
Smoke alarms	375
Smoking.....	131, <u>132</u> , 163, 245, 391, 403, 517, 525, 597
Soap	24, 98, C-10
Solar radiation	129
Solvents.....	29, 131, 172, 206, 277, C-16
Sound-pressure.....	48
Spotter	42, 318, 344, 364
see signal personnel	
Spray guns	265
Sprinkler head	202
Stairways	424
railings	426
Standard guardrails and handrails - see railing	
Static electricity	268
Steel	
erection.....	546
removal.....	484
Sun screen	129
Switches	214
-T-	
Tag lines	236, 315, 334, 452
Tank cars/trucks	174
Temporary	
building spacing.....	165
facilities.....	35
floors.....	410, 430
heating devices - see heating devices	
lighting	220
power distribution systems.....	220
sleeping quarters.....	37
structures.....	35
Throw bags.....	83
Tire service vehicles.....	298
Toe boards	299, 340, 384, 412
Toilets	21
Tools	<u>187-259</u>
hand.....	259
pneumatic.....	187, 222, <u>265</u>

power.....	265259
Torch valves.....	259204
Torches.....	203
Towels	24, C-10
Towers - see scaffolds, metal erection.....	433
Towing	295, 360
Toxic or corrosive materials	28, Q-44
Traffic flagging procedures.....	145
Trailer anchoring systems	35
Training.....	11
Transportation	365
Tree maintenance and removal	631
brush chippers.....	636
brush removal.....	636
cant hooks, cant dogs, tongs, and carrying bars	640
chopping tools	639
felling	634
limbing and bucking.....	638
power saws	639
pruning and trimming.....	638, P-2
tree climbing	633, P-1
trucks.....	639
wedges and chisels	640
Trenching - see excavations	
Tubing, polyvinyl chloride and aluminum	175
Tunnels	507
see underground construction	

-U-

Ultraviolet degradation	53
Underground construction	507
air monitoring requirements	519-518
air quality standards	520
caissons	531
fire prevention and protection.....	524, A-6
ground support systems.....	513
rescue teams.....	509
shafts	529
shafts, hoisting	530
ventilation	522
Unexploded ordnance	41, 343, 489, 600, 607
Utilities	322, 343, 380, 478

-V-

Vanadium	199
Vehicle-mounted elevating and rotating work platforms	471
Vent pipes	181
Ventilation and exhaust systems.....	111
Vermin control	25
Vessel	14, 325, 330, 369
Visitors	12, 41, 102, 206

-W-

Wall	
openings - see floor and wall holes and openings	
removal.....	482

Warning signs.....	36, 108, 139
Washing facilities.....	23
Waste disposal.....	25
Welding and cutting.....	197
Wet locations, <u>electrical</u>	221
Wild land fire control.....	<u>145193</u>
plan.....	<u>145193</u>
teams and operations.....	<u>146195</u>
Windshields.....	293, 300, 360
Wire rope - see rigging	
Woodworking	
machinery and saws.....	263
machinery guarding.....	<u>263</u> , E-1
Work platforms.....	429
manufactured work platforms.....	429
Work practice controls.....	89
Work/warm-up regimen.....	127