



ON-THE-JOB TRAINING (OJT) CLASSIFICATIONS AND PROGRAM CURRICULUMS

TRAINING CLASSIFICATIONS

One credit shall be counted for each trainee who graduates from the program.

Two goal credits shall be counted for each trainee who graduates from the more technical training classifications with **more than 2080** maximum training hours. These training classifications are denoted by an asterisk (*).

<u>CODE</u>	<u>TRAINING CLASSIFICATION</u>	<u>MAXIMUM HOURS</u>
9106	Asphalt Raker	520
9112	Batching Plant Operator, Asphalt.....	720
9115	Batching Plant Operator, Concrete	720
9124	Concrete Finisher, Paving and Structures.....	1040
9139	Electrician*	4160
9143	Telecommunication Technician*	2080
9144	Communications Cable Installer.....	720
9145	Traffic Signal/Light Pole Worker*	4160
9151	Form Builder/Setter, Structures	1040
9160	Form Setter, Paving and Curb.....	720
9175	Laborer, Utility.....	520
9187	Mechanic	1440
9194	Servicer	520
9196	Painter, Structures	1040
9202	Piledriver.....	720
9205	Pipelayer	520
9214	Blaster.....	1040
9300	Asphalt Distributor Operator.....	1040
9303	Asphalt Paving Machine Operator.....	1040
9305	Broom or Sweeper Operator	320
9306	Crawler Tractor Operator	720
9315	Concrete Paving Curing, Float, Texturing Machine Operator	1040
9318	Concrete Pavement Finishing Machine Operator	1040
9329	Joint Sealer.....	520
9333	Concrete Saw Operator	520
9339	Subgrade Trimmer	1040
9341	Small Slipform Machine Operator.....	720
9342	Crane Operator, Lattice Boom 80 Tons or Less.....	1040
9343	Crane Operator, Lattice Boom Over 80 Tons*	2080
9344	Crane Operator, Hydraulic 80 Tons or Less.....	1040
9345	Crane Operator, Hydraulic Over 80 Tons	1040
9346	Loader/Backhoe Operator.....	1040
9347	Excavator Operator, 50,000 Pounds or Less.....	720

CODE	TRAINING CLASSIFICATION	MAXIMUM HOURS
9348	Excavator Operator, Over 50,000 Pounds.....	1040
9351	Crusher or Screen Plant Operator.....	1040
9360	Foundation Drill Operator, Crawler Mounted.....	1040
9363	Foundation Drill Operator, Truck Mounted.....	1040
9369	Front End Loader Operator, 3 CY or Less.....	520
9372	Front End Loader Operator, Over 3 CY.....	1040
9380	Milling Machine Operator.....	1040
9384	Reclaimer/Pulverizer Operator.....	720
9390	Motor Grader Operator, Fine Grade*.....	2080
9393	Motor Grader Operator, Rough.....	1040
9396	Pavement Marking Machine Operator.....	720
9399	Concrete/Gunite Pump Operator.....	720
9402	Roller Operator, Asphalt.....	1040
9405	Roller Operator, Other.....	520
9411	Scraper Operator.....	520
9413	Off Road Hauler.....	520
9417	Self-Propelled Hammer Operator.....	520
9428	Agricultural Tractor Operator.....	520
9437	Trenching Machine Operator, Light.....	520
9440	Trenching Machine Operator, Heavy.....	1040
9441	Tunneling Machine Operator, Heavy.....	1560
9442	Tunneling Machine Operator, Light.....	720
9443	Percussion or Rotary Drill Operator.....	520
9444	Boring Machine Operator.....	720
9445	Directional Drilling Operator.....	1040
9446	Directional Drilling Locator.....	720
9500	Reinforcing Steel Worker.....	720
9509	Structural Steel Worker.....	1040
9513	Sign Erector.....	1040
9515	Spreader Box Operator.....	520
9520	Work Zone Barricade Servicer.....	720
9600	Truck Driver, Single Axle.....	520
9606	Truck Driver, Single or Tandem Axle Dump Truck.....	720
9607	Truck Driver, Tandem Axle Tractor with Semi Trailer.....	1040
9609	Truck Driver Lowboy-Float.....	1040
9612	Truck Driver Transit-Mix.....	1040
9615	Boom Truck Operator.....	1040
9705	Structural Steel Welder*.....	2080
9706	Welder.....	1040
9708	Slurry Seal or Micro-Surfacing Machine Operator.....	1040

ASPHALT RAKER – CODE 9106

MAXIMUM TRAINING TIME: 13 WEEKS OR 520 HOURS

- I. Orientation and Observation
 - A. Safety procedures..... 10 hours
 - B. Observation of placement of materials 5 hours
 - C. Perform duties of asphalt raker 35 hours

- II. Care and Maintenance
 - A. Safety procedures..... 10 hours
 - B. Routine fueling, lubricating and servicing 35 hours

- III. Actual Operation of Equipment
 - A. Safe operating procedures 10 hours
 - B. Adjustment of screed to regulate width and depth of material 35 hours
 - C. Distribution of material..... 380 hours

- Total 520 hours

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BATCHING PLANT OPERATOR, ASPHALT - CODE 9112

MAXIMUM TRAINING TIME: 18 WEEKS OR 720 HOURS

- I. Orientation and Observation
 - A. Safety procedures..... 10 hours
 - B. Observation of equipment in operation 35 hours
 - C. Adjustment of scales, operation of controls and weighing 50 hours

- II. Care and Maintenance
 - A. Safety procedures..... 10 hours
 - B. Routine cleaning, lubrication and servicing..... 35 hours

- III. Actual Operation of Equipment
 - A. Safe operating procedures 10 hours
 - B. Operating controls and scales for measurement and discharge of asphaltic materials into trucks, or carriers 570 hours

- Total 720 hours

BATCHING PLANT OPERATOR, CONCRETE – CODE 9115

MAXIMUM TRAINING TIME: 18 WEEKS OR 720 HOURS

- I. Orientation and Observation
 - A. Safety procedures..... 10 hours
 - B. Observation of equipment in operation 35 hours
 - C. Adjustment of scales, operation of controls and weighing..... 50 hours
 - II. Care and Maintenance
 - A. Safety procedures..... 10 hours
 - B. Routine cleaning, lubrication and servicing..... 35 hours
 - III. Actual Operation of Equipment
 - A. Safe operating procedures 10 hours
 - B. Operating controls and scales for measurement and discharge of concrete materials into trucks, carriers or mixer..... 570 hours
- Total 720 hours

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CONCRETE FINISHER, PAVING AND STRUCTURES – CODE 9124

MAXIMUM TRAINING TIME: 26 WEEKS OR 1040 HOURS

- I. Orientation and Observation
 - A. Safety procedures..... 10 hours
 - B. Observation of use of machine in operation..... 25 hours
 - C. Starting and manipulating controls for moving equipment and attachments 25 hours
 - D. Observation of use of straight edges and steel trowels 25 hours
 - E. Observation of forming a finishing of edges and joints..... 25 hours
 - II. Care and Maintenance
 - A. Safety procedures..... 10 hours
 - B. Routine cleaning work area and materials, holding materials, tools and handling canvas belting or burlap strips 200 hours
 - C. Routine fueling, lubricating and servicing 35 hours
 - III. Operation of Equipment
 - A. Safe operating procedures 10 hours
 - B. Basic operation of tools and machine 165 hours
 - C. Use of straight edges, trowels, or floats..... 100 hours
 - D. Forming and finishing edges, joints, curbs and gutters..... 200 hours
 - E. Operation of finishing machine..... 210 hours
- Total 1040 hours

ELECTRICIAN* – CODE 9139

MAXIMUM TRAINING TIME: 104 WEEKS OR 4160 HOURS

*Two training credits will be counted for graduation in this classification

I. Orientation	
A. Safety procedures	10 hours
B. Basic rules of National Electrical Code	100 hours
C. Basic tools – their care and uses.....	100 hours
II. Technical Studies and Review	
A. Safety procedures.....	10 hours
B. Advance study of National Electrical Code	100 hours
C. Construction blueprints, reading and application	200 hours
III. Applied Techniques of Electrical Construction	
A. Safety procedures.....	10 hours
B. Care and Maintenance of trade tools and equipment.....	100 hours
C. Wire ways – types, uses and methods of installation.....	900 hours
D. Circuit wiring.....	800 hours
E. Protective equipment – switches, panels, etc.	300 hours
F. Feeders and services.....	300 hours
G. Lighting fixtures and wall outlets.....	250 hours
H. Control wiring	150 hours
I. Testing of completed work	100 hours
J. Underground conduit and wire	300 hours
K. Installation of outside lighting, maintenance and repairs.....	430 hours
Total	4160 hours

TELECOMMUNICATION TECHNICIAN* – CODE 9143

MAXIMUM TRAINING TIME: 52 WEEKS OR 2080 HOURS

*Two training credits will be counted for graduation in this classification

I. Orientation	
A. Safety procedures	10 hours
B. Theories and types of telecommunications systems.....	40 hours
C. Operation of specialized tools and equipment.....	40 hours
D. Familiarization with standards and practices... ..	40 hours
II. Basic Design Familiarity	
A. Safety procedures.....	10 hours
B. Understanding and interpretation of specifications... ..	20 hours
C. Blueprint or construction plans reading	50 hours
III. Applied Techniques of Telecommunications Construction	
A. Safety procedures.....	10 hours
B. Care and maintenance of trade tools and equipment	60 hours
C. Handling and installation of copper cables.....	300 hours
D. Handling and installation of fiber cables.....	400 hours
E. Termination and testing of copper cables.....	300 hours
F. Termination and testing of fiber cables.....	250 hours
G. Installation and deployment of telecommunications equipment	250 hours
H. Operational testing and troubleshooting of systems.....	250 hours
I. Documentation of tests and installations	50 hours
Total	2080 hours

COMMUNICATIONS CABLE INSTALLER – CODE 9144

MAXIMUM TRAINING TIME: 18 WEEKS OR 720 HOURS

I. Orientation	
A. Safety Procedures	10 hours
B. Theories and types of Telecommunications systems.....	5 hours
C. Operation of specialized tools and equipment.....	25 hours
D. Familiarization with standards and practices....	25 hours
II. Basic Design Familiarity	
A. Safety procedures.....	10 hours
B. Understanding and interpretation of specifications....	20 hours
C. Blueprint or Construction Plans Reading.....	45 hours
III. Applied Techniques of Cable Installation	
A. Safety procedures.....	10 hours
B. Care and maintenance of trade tools and equipment	70 hours
C. Handling and installation of copper cables... ..	100 hours
D. Handling and installation of fiber cables.....	200 hours
E. Figure 8 techniques and long pulls.....	100 hours
F. Handling and installation of innerduct... ..	100 hours
Total	720 hours

TRAFFIC SIGNAL/LIGHT POLE WORKER* – CODE 9145

MAXIMUM TRAINING TIME: 104 WEEKS OR 4160 HOURS

*Two training credits will be counted for graduation in this classification

I. Orientation	
A. Safety procedures...	10 hours
B. Basic rules of National Electrical Code	100 hours
C. Basic tools – their care and uses	100 hours
II. Technical Studies and Review	
A. Safety procedures	10 hours
B. Advance study of National Electrical Code	100 hours
C. Construction blueprints, reading and application	200 hours
III. Applied Techniques of Electrical Construction	
A. Safety procedures	10 hours
B. Care and maintenance of trade tools and equipment	100 hours
C. Wire ways – types, uses and methods of installation	900 hours
D. Circuit wiring	800 hours
E. Protective equipment – switches, panels, etc.	300 hours
F. Feeders and services	300 hours
G. Lighting fixtures and wall outlets	250 hours
H. Control wiring	150 hours
I. Testing of completed work	130 hours
J. Underground conduit and wire	300 hours
K. Installation of outside lighting, maintenance and repairs	400 hours
Total	4160 hours

FORM BUILDER/SETTER, STRUCTURES – CODE 9151

MAXIMUM TRAINING TIME: 26 WEEKS OR 1040 HOURS

- I. Orientation and Observation
 - A. Safety procedures..... 10 hours
 - B. Materials and tools selection..... 15 hours
 - C. Placing forms, form stripping and setting of precast concrete..... 20 hours

 - II. Applied techniques
 - A. Safety procedures..... 10 hours
 - B. Blueprint or construction plans reading and application 30 hours
 - C. Basic form design..... 30 hours
 - D. Formwork: pier, pile and cap formwork; decking formwork; endwall formwork; box culverts, inlets and headwall formwork, parapet and hand railing formwork 225 hours
 - E. Stripping and salvage of forms for reuse and cleaning work area 30 hours

 - III. Actual Operation of Form Setting
 - A. Safe operating procedures 10 hours
 - B. Align forms. Drive stakes for braces and erect scaffolding 100 hours
 - C. Observe and assist in setting precast concrete 25 hours
 - D. Measure space between forms, fit together, line, plumb vertically, set to elevation 250 hours
 - E. Check forms while concrete is being poured..... 285 hours
- Total 1040 hours

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FORM SETTER, PAVING AND CURB – CODE 9160

MAXIMUM TRAINING TIME: 18 WEEKS OR 720 HOURS

- I. Orientation and Observation
 - A. Safety procedures..... 10 hours
 - B. Observation of setting grade line..... 20 hours
 - C. Observation of pulling, loading, hauling and placing forms..... 30 hours

 - II. Care and Maintenance
 - A. Safety procedures..... 10 hours
 - B. Routine cleaning of forms and care of air and hand tools 25 hours

 - III. Actual Operation of Form Setting
 - A. Safe operating procedures 10 hours
 - B. Set grade line 70 hours
 - C. Pull, load, haul and place forms..... 100 hours
 - D. Set forms to finish grade, drive pins, set and check alignment, and spray forms..... 375 hours
 - E. Check forms while pouring concrete 70 hours
- Total 720 hours

LABOR, UTILITY – CODE 9175

MAXIMUM TRAINING TIME: 13 WEEKS OR 520 HOURS

- I. Orientation and Observation
 - A. Safety procedures..... 10 hours
 - B. Observation of tools and machines..... 20 hours

- II. Care and Maintenance
 - A. Safety procedures..... 10 hours
 - B. Care of power and air tools..... 15 hours
 - C. Erosion control 20 hours
 - D. Dewatering systems..... 20 hours

- III. Actual Operation of Equipment
 - A. Safe operating procedures..... 10 hours
 - B. Erect shoring and bracing75 hours
 - C. Pipe installation.....75 hours
 - D. Equipment operator assistance: position machines,
verify grades, signal operator to dumping positions..... 115 hours
 - E. Assist in placing and tying reinforcing steel.....75 hours
 - F. Unload and transport material.....75 hours

- Total 520 hours

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MECHANIC – CODE 9187

MAXIMUM TRAINING TIME: 36 WEEKS OR 1440 HOURS

- I. Orientation and Observation
 - A. Safety procedures..... 10 hours
 - B. Cleaning, disassembling and inspection of engine parts..... 40 hours
 - C. Installation and adjustment of minor parts..... 50 hours

- II. Care and Maintenance
 - A. Safety procedures..... 10 hours
 - B. Engine reconditioning 200 hours
 - C. Clutch installation..... 50 hours
 - D. Transmission reconditioning..... 100 hours

- III. Actual Repair of Equipment
 - A. Safe operating procedures 10 hours
 - B. Electrical systems..... 200 hours
 - C. Hydraulic systems 200 hours
 - D. Final drive and track assemblies 150 hours
 - E. Welding and fabrication..... 100 hours
 - F. General field maintenance..... 320 hours

- Total 1440 hours

SERVICER – CODE 9194

MAXIMUM TRAINING TIME: 13 WEEKS OR 520 HOURS

- I. Orientation and Observation
 - A. Safety procedures..... 10 hours
 - B. Observing fueling, greasing and cleaning filters..... 40 hours
 - C. Fuel and grease used for different types of equipment 40 hours

 - II. Actual Operation
 - A. Safe operating procedures 10 hours
 - B. Servicing all types of equipment..... 80 hours
 - C. Installation and adjustment of minor parts 80 hours
 - D. General field maintenance and operation of service truck..... 260 hours
- Total 520 hours

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PAINTER, STRUCTURES – CODE 9196

(May also require SSPC QP 1 or QP 2 certification)

MAXIMUM TRAINING TIME: 26 WEEKS OR 1040 HOURS

- I. Orientation and Observation
 - A. Safety procedures..... 10 hours
 - B. Operate maintain and load equipment..... 40 hours
 - C. Product and work orientation..... 50 hours

 - II. Care and Maintenance
 - A. Safety procedures..... 10 hours
 - B. Equipment maintenance and cleanup..... 60 hours

 - III. Actual Operation of Equipment
 - A. Safe operating procedures 10 hours
 - B. Brushing and rolling..... 100 hours
 - C. Material training... 50 hours
 - D. Hazardous materials... 200 hours
 - E. Sandblasting... 200 hours
 - F. Spraying..... 310 hours
- Total 1040 hours

PILEDRIVER – CODE 9202

MAXIMUM TRAINING TIME: 18 WEEKS OR 720 HOURS

- I. Orientation and Observation
 - A. Safety procedures..... 10 hours
 - B. Observation of machine in operation.....50 hours
 - C. Starting and manipulating controls for moving equipment and attachments 45 hours
 - II. Care and Maintenance
 - A. Safety procedures..... 10 hours
 - B. Routine fueling, lubricating and servicing 35 hours
 - III. Actual Operation of Equipment
 - A. Safe operating procedures 10 hours
 - B. Basic operation of crane or pile driving rig in hoisting and moving 200 hours
 - C. Placement of pile in preparation for driving..... 140 hours
 - D. Seating of pile hammer on pile in preparation for driving 120 hours
 - E. Driving of pile 100 hours
- Total 720 hours

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PIPELAYER - CODE 9205

MAXIMUM TRAINING TIME: 13 WEEKS OR 520 HOURS

- I. Orientation and Observation
 - A. Safety procedures..... 10 hours
 - B. Observation of spade operation and laying of pipe..... 20 hours
 - C. Study of various types of pipe and related materials 5 hours
 - II. Care and Maintenance
 - A. Safety procedures..... 10 hours
 - B. Ditch preparation, handle materials and tools..... 20 hours
 - III. Actual Handling of Pipe and Spade
 - A. Safe operating procedures 10 hours
 - B. Ditch grading with compressed air driven or hand spade.....50 hours
 - C. Handle materials, assist in lowering pipe50 hours
 - D. Work with pipe layer in laying all types of pipe and duct. Adjust pipe to elevation insert spigot end of pipe into bell end of last laid pipe 345 hours
- Total 520 hours

BLASTER – CODE 9214

MAXIMUM TRAINING TIME: 26 WEEKS OR 1040 HOURS

- I. Orientation and Observation
 - A. Safety procedures..... 10 hours
 - B. Observation of work of Powder man..... 50 hours
 - C. Assist Powder man by carrying explosives, placing in holes, connecting lead wires..... 45 hours
 - II. Applied Techniques of Powder man
 - A. Safety procedures..... 15 hours
 - B. Storage, transporting, placing and discharging of explosives 330 hours
 - III. Actual Blasting Operations
 - A. Safe operating procedures 25 hours
 - B. Use of detonators and explosives..... 100 hours
 - C. Storage, movement and placing of explosives 300 hours
 - D. Placing wires, detonators and explosives, tamping and discharging 165 hours
- Total 1040 hours

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ASPHALT DISTRIBUTOR OPERATOR – CODE 9300

MAXIMUM TRAINING TIME: 26 WEEKS OR 1040 HOURS

- I. Orientation and Observation
 - A. Safety procedures..... 10 hours
 - B. Observation of vehicle in operation 35 hours
 - C. Starting and manipulating valves and controls to distribute material and move equipment 30 hours
 - II. Care and Maintenance
 - A. Safety procedures..... 10 hours
 - B. Routine fueling, lubricating and servicing 35 hours
 - III. Actual Operation of Equipment
 - A. Safe operating procedures 10 hours
 - B. Regulates valves and levers to distribute oil or bituminous liquid for highway surfacing 115 hours
 - C. Operation of equipment 795 hours
- Total 1040 hours

ASPHALT PAVING MACHINE OPERATOR - CODE 9303

MAXIMUM TRAINING TIME: 26 WEEKS OR 1040 HOURS

- I. Orientation and Observation
 - A. Safety procedures 10 hours
 - B. Observation of machine in operations 35 hours
 - C. Starting and manipulating controls for moving equipment and attachments 30 hours
 - II. Care and Maintenance
 - A. Safety procedures 10 hours
 - B. Routine fueling, lubricating and servicing 35 hours
 - III. Actual Operation of Equipment
 - A. Safety operating procedures 10 hours
 - B. Observation of machine in operations 120 hours
 - C. Operating of machine 790 hours
- Total 1040 hours

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BROOM OR SWEEPER OPERATOR – CODE 9305

MAXIMUM TRAINING TIME: 8 WEEKS OR 320 HOURS

- I. Orientation and Observation
 - A. Safety procedures..... 10 hours
 - B. Observation of machine in operation..... 5 hours
 - C. Starting and manipulating controls for moving equipment and attachments 10 hours
 - II. Care and Maintenance
 - A. Safety procedures..... 10 hours
 - B. Routine fueling, lubricating and servicing 35 hours
 - III. Actual Operation of Equipment
 - A. Safe operating procedures 10 hours
 - B. Proper start-up, proper engagement and position of broom and proper sweeping technique..... 15 hours
 - C. Removal and replacement of broom wafers 10 hours
 - D. Operation of sweeper in cleaning of pavements 215 hours
- Total 320 hours

CRAWLER TRACTOR OPERATOR - CODE 9306

MAXIMUM TRAINING TIME: 18 WEEKS OR 720 HOURS

- I. Orientation and Observation
 - A. Safety procedures..... 10 hours
 - B. Observation of machine in operation..... 35 hours
 - C. Starting and manipulating controls for moving equipment and attachments 30 hours

 - II. Care and Maintenance
 - A. Safety procedures..... 10 hours
 - B. Routine fueling, lubricating and servicing 35 hours

 - III. Actual Operation of Equipment
 - A. Safe operating procedures 10 hours
 - B. Movement and stockpiling of material..... 150 hours
 - C. Pushing and rough grading 125 hours
 - D. Clearing and grubbing..... 125 hours
 - E. Finish grading 160 hours
 - F. Special applications..... 30 hours
- Total 720 hours

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CONCRETE PAVING CURING, FLOAT, TEXTURING MACHINE OPERATOR – CODE 9315

MAXIMUM TRAINING TIME: 26 WEEKS OR 1040 HOURS

- I. Orientation and Observation
 - A. Safety procedures..... 10 hours
 - B. Observation of machines in operation 35 hours
 - C. Starting and manipulating controls for moving equipment and attachments 30 hours

 - II. Care and Maintenance
 - A. Safety procedures..... 10 hours
 - B. Routine fueling, lubricating and servicing 35 hours

 - III. Actual Operation of Equipment
 - A. Safe operating procedures 10 hours
 - B. Operation of curing system 120 hours
 - C. Operation of machine..... 790 hours
- Total 1040 hours

CONCRETE PAVEMENT FINISHING MACHINE OPERATOR - CODE 9318

MAXIMUM TRAINING TIME: 26 WEEKS OR 1040 HOURS

- I. Orientation and Observation
 - A. Safety procedures..... 10 hours
 - B. Observation of machine in operation..... 35 hours
 - C. Starting and manipulating controls for moving equipment and attachments 30 hours

- II. Care and Maintenance
 - A. Safety procedures..... 10 hours
 - B. Routine fueling, lubricating and servicing 35 hours

- III. Actual Operation of Equipment
 - A. Safe operating procedures 10 hours
 - B. Screed regulation indoctrination and operation 120 hours
 - C. Operation of machine..... 790 hours

- Total 1040 hours

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JOINT SEALER – CODE 9329

MAXIMUM TRAINING TIME: 13 WEEKS OR 520 HOURS

- I. Orientation and Observation
 - A. Safety procedures..... 10 hours
 - B. Observation 10 hours

- II. Care and Maintenance
 - A. Safety procedures..... 10 hours
 - B. Routine cleaning and servicing..... 35 hours

- III. Actual Operation
 - A. Safe operating procedures 10 hours
 - B. Cleaning and sealing joints in concrete paving,
sidewalks, driveways and approach slabs 445 hours

- Total 520 hours

CONCRETE SAW OPERATOR – CODE 9333

MAXIMUM TRAINING TIME: 13 WEEKS OR 520 HOURS

- I. Orientation and Observation
 - A. Safety procedures..... 10 hours
 - B. Observation of machine in operation..... 35 hours
- II. Care and Maintenance
 - A. Safety procedures..... 10 hours
 - B. Routine oiling, greasing, cleaning and servicing saw 35 hours
- III. Actual Operation of Equipment
 - A. Safe operating procedures 10 hours
 - B. Operation of saw 420 hours
- Total 520 hours

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SUBGRADE TRIMMER – CODE 9339

MAXIMUM TRAINING TIME: 26 WEEKS OR 1040 HOURS

- I. Orientation and Observation
 - A. Safety procedures..... 10 hours
 - B. Observation of machine in operation..... 50 hours
 - C. Use of paving forms or electronic controls 40 hours
 - D. Manipulation of hand and foot levers..... 40 hours
- II. Care and Maintenance
 - A. Safety procedures..... 10 hours
 - B. Routine fueling, lubricating and servicing 35 hours
- III. Actual Operation of Equipment
 - A. Safe operating procedures 10 hours
 - B. Raising and lowering screed; regulating width of screed..... 100 hours
 - C. Operation of machine..... 745 hours
- Total 1040 hours

SMALL SLIPFORM MACHINE OPERATOR – CODE 9341

MAXIMUM TRAINING TIME: 18 WEEKS OR 720 HOURS

- I. Orientation and Observation
 - A. Safety procedures..... 10 hours
 - B. Observation of machine in operation... 35 hours
 - C. Starting and manipulating controls for moving equipment and attachments.....30 hours
 - II. Care and Maintenance
 - A. Safety procedures..... 10 hours
 - B. Routine fueling, lubricating and servicing 35 hours
 - III. Actual Operation of Equipment
 - A. Safe operating procedures 10 hours
 - B. Screenshot regulation indoctrination and operation 120 hours
 - C. Operation of machine..... 470 hours
- Total 720 hours

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CRANE OPERATOR, LATTICE BOOM 80 TONS OR LESS - CODE 9342
(May also require crane operator certification)

MAXIMUM TRAINING TIME: 26 WEEKS OR 1040 HOURS

- I. Orientation and Observation
 - A. Safety procedures... 10 hours
 - B. Observation of machine in operation... 50 hours
 - C. Starting and manipulating controls for moving equipment and attachments.....40 hours
 - II. Care and Maintenance
 - A. Safety procedures..... 10 hours
 - B. Routine fueling, lubricating and servicing... 35 hours
 - III. Actual Operation of Equipment
 - A. Safe operating procedures.....50 hours
 - B. Loading and unloading materials... 110 hours
 - C. Hoisting materials..... 585 hours
 - D. Placement of beams, pipe, girders, piles, rock riprap, etc... 150 hours
- Total 1040 hours

CRANE OPERATOR, LATTICE BOOM OVER 80 TONS* – CODE 9343
(May also require crane operator certification)

MAXIMUM TRAINING TIME: 52 WEEKS OR 2080 HOURS

*Two training credits will be counted for graduation in this classification

- I. Orientation and Observation
 - A. Safety procedures..... 10 hours
 - B. Observation of machine in operation.....50 hours
 - C. Starting and manipulating controls for moving equipment and attachments40 hours

 - II. Care and Maintenance
 - A. Safety procedures..... 10 hours
 - B. Routine fueling, lubricating and servicing35 hours

 - III. Actual Operation of Equipment
 - A. Safe operating procedures 100 hours
 - B. Loading and unloading materials 150 hours
 - C. Hoisting materials800 hours
 - D. Placement of beams, pipe, girders, piles, rock riprap, etc..... 885 hours
- Total2080 hours

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CRANE OPERATOR, HYDRAULIC 80 TONS OR LESS – CODE 9344
(May also require crane operator certification)

MAXIMUM TRAINING TIME: 26 WEEKS OR 1040 HOURS

- I. Orientation and Observation
 - A. Safety procedures..... 10 hours
 - B. Observation of machine in operation.....50 hours
 - C. Starting and manipulating controls for moving equipment and attachments40 hours

 - II. Care and Maintenance
 - A. Safety procedures..... 10 hours
 - B. Routine fueling, lubricating and servicing35 hours

 - III. Actual Operation of Equipment
 - A. Safe operating procedures50 hours
 - B. Loading and unloading materials 110 hours
 - C. Hoisting materials 280 hours
 - D. Placement of beams, pipe, girders, piles, etc..... 455 hours
- Total1040 hours

CRANE OPERATOR, HYDRAULIC OVER 80 TONS – CODE 9345
(May also require crane operator certification)

MAXIMUM TRAINING TIME: 26 WEEKS OR 1040 HOURS

- I. Orientation and Observation
 - A. Safety procedures..... 10 hours
 - B. Observation of machine in operation.....50 hours
 - C. Starting and manipulating controls for moving equipment and attachments 40 hours

 - II. Care and Maintenance
 - A. Safety procedures..... 10 hours
 - B. Routine fueling, lubricating and servicing 35 hours

 - III. Actual Operation of Equipment
 - A. Safe operating procedures50 hours
 - B. Loading and unloading materials 110 hours
 - C. Hoisting materials 280 hours
 - D. Placement of beams, pipe, girders, piles, etc..... 455 hours
- Total 1040 hours

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LOADER/BACKHOE OPERATOR – CODE 9346

MAXIMUM TRAINING TIME: 26 WEEKS OR 1040 HOURS

- I. Orientation and Observation
 - A. Safety procedures..... 10 hours
 - B. Observation of machine in operation.....50 hours
 - C. Starting and manipulating controls for moving equipment and attachments 45 hours

 - II. Care and Maintenance
 - A. Safety procedures..... 10 hours
 - B. Routine fueling, lubricating and servicing 35 hours

 - III. Actual Operation of Equipment
 - A. Safe operating procedures 10 hours
 - B. Trenching operations (for Pipe laying, etc.) 500 hours
 - C. Excavation (for structures, footings, etc.)..... 380 hours
- Total 1040 hours

EXCAVATOR OPERATOR, 50,000 POUNDS OR LESS – CODE 9347

MAXIMUM TRAINING TIME: 18 WEEKS OR 720 HOURS

- I. Orientation and Observation
 - A. Safety procedures..... 10 hours
 - B. Observation of machine in operation..... 25 hours
 - C. Starting and manipulating controls for moving equipment and attachments 25 hours
 - II. Care and Maintenance
 - A. Safety procedures..... 10 hours
 - B. Routine fueling, lubricating and servicing 35 hours
 - III. Actual Operation of Equipment
 - A. Safe operating procedures 10 hours
 - B. Excavation for footings and removal of unsuitable materials..... 250 hours
 - C. Loading materials..... 100 hours
 - D. Trenching for pipe, etc..... 165 hours
 - E. Placement of pipe, precast concrete structures, etc... 90 hours
- Total 720 hours

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EXCAVATOR OPERATOR, OVER 50,000 POUNDS – CODE 9348

MAXIMUM TRAINING TIME: 26 WEEKS OR 1040 HOURS

- I. Orientation and Observation
 - A. Safety procedures..... 10 hours
 - B. Observation of machine in operation..... 50 hours
 - C. Starting and manipulating controls for moving equipment and attachments 40 hours
 - II. Care and Maintenance
 - A. Safety procedures..... 10 hours
 - B. Routine fueling, lubricating and servicing 35 hours
 - III. Actual Operation of Equipment
 - A. Safe operating procedures 10 hours
 - B. Excavation for footings and removal of unsuitable materials..... 250 hours
 - C. Loading materials..... 190 hours
 - D. Trenching for pipe, etc..... 255 hours
 - E. Placement of pipe, precast concrete structures, etc..... 190 hours
- Total 1040 hours

CRUSHER OR SCREEN PLANT OPERATOR – CODE 9351

MAXIMUM TRAINING TIME: 26 WEEKS OR 1040 HOURS

- I. Orientation and Observation
 - A. Safety procedures..... 10 hours
 - B. Observation of machine in operation..... 35 hours
 - C. Starting of crusher operating conveyors..... 30 hours

 - II. Care and Maintenance
 - A. Safety procedures..... 10 hours
 - B. Routine fueling, lubricating and servicing 35 hours

 - III. Actual Operation of Equipment
 - A. Safe operating procedures 10 hours
 - B. Operation of conveyors and crusher operations 120 hours
 - C. Operation of crusher..... 790 hours
- Total 1040 hours

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FOUNDATION DRILL OPERATOR, CRAWLER MOUNTED – CODE 9360

MAXIMUM TRAINING TIME: 26 WEEKS OR 1040 HOURS

- I. Orientation and Observation
 - A. Safety procedures..... 10 hours
 - B. Observation of machine in operation..... 35 hours
 - C. Starting and manipulating controls for moving equipment and attachments 30 hours

 - II. Care and Maintenance
 - A. Safety procedures..... 10 hours
 - B. Routine fueling, lubricating and servicing 35 hours

 - III. Actual Operation of Equipment
 - A. Safe operating procedures 10 hours
 - B. Small hole drilling 300 hours
 - C. Large hole drilling 300 hours
 - D. Casing operation 110 hours
 - E. General operating 200 hours
- Total 1040 hours

FOUNDATION DRILL OPERATOR, TRUCK MOUNTED – CODE 9363

MAXIMUM TRAINING TIME: 26 WEEKS OR 1040 HOURS

- I. Orientation and Observation
 - A. Safety procedures..... 10 hours
 - B. Observation of machine in operation..... 35 hours
 - C. Starting and manipulating controls for moving equipment and attachments 30 hours
 - II. Care and Maintenance
 - A. Safety procedures..... 10 hours
 - B. Routine fueling, lubricating and servicing 35 hours
 - III. Actual Operation of Equipment
 - A. Safe operating procedures 10 hours
 - B. Small hole drilling 300 hours
 - C. Large hole drilling 300 hours
 - D. Casing operation 110 hours
 - E. General operating 200 hours
- Total 1040 hours

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FRONT END LOADER, 3 CY OR LESS – CODE 9369

MAXIMUM TRAINING TIME: 13 WEEKS OR 520 HOURS

- I. Orientation and Observation
 - A. Safety procedures..... 10 hours
 - B. Observation of machine in operation..... 20 hours
 - C. Starting and manipulating controls for moving equipment and attachments 15 hours
 - II. Care and Maintenance
 - A. Safety procedures..... 10 hours
 - B. Routine fueling, lubricating and servicing 35 hours
 - III. Actual Operation of Equipment
 - A. Safe operating procedures 10 hours
 - B. Loading materials..... 235 hours
 - C. Excavation..... 150 hours
 - D. Special applications..... 35 hours
- Total 520 hours

FRONT END LOADER, OVER 3 CY – CODE 9372

MAXIMUM TRAINING TIME: 26 WEEKS OR 1040 HOURS

- I. Orientation and Observation
 - A. Safety procedures..... 10 hours
 - B. Observation of machine in operation..... 20 hours
 - C. Starting and manipulating controls for moving equipment and attachments 15 hours
 - II. Care and Maintenance
 - A. Safety procedures..... 10 hours
 - B. Routine fueling, lubricating and servicing 35 hours
 - III. Actual Operation of Equipment
 - A. Safe operating procedures 10 hours
 - B. Loading materials..... 400 hours
 - C. Excavation..... 250 hours
 - D. Charge hoppers with materials on asphalt and concrete plants 270 hours
 - E. Special applications..... 20 hours
- Total 1040 hours

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MILLING MACHINE OPERATOR – CODE 9380

MAXIMUM TRAINING TIME: 26 WEEKS OR 1040 HOURS

- I. Orientation and Observation
 - A. Safety procedures..... 10 hours
 - B. Observation of machine in operation..... 35 hours
 - II. Care and Maintenance
 - A. Safety procedures..... 10 hours
 - B. Routine fueling, lubricating and servicing 35 hours
 - III. Actual Operation of Equipment
 - A. Safe operating procedures 10 hours
 - B. Planing roadbed..... 700 hours
 - C. Discharging material into hauling unit 240 hours
- Total 1040 hours

RECLAIMER/PULVERIZER OPERATOR – CODE 9384

MAXIMUM TRAINING TIME: 18 WEEKS OR 720 HOURS

- I. Orientation and Observation
 - A. Safety procedures..... 10 hours
 - B. Observation of machine in operation..... 35 hours
 - II. Care and Maintenance
 - A. Safety procedures..... 10 hours
 - B. Routine fueling, lubricating and servicing 35 hours
 - III. Actual Operation of Machine
 - A. Safe operating procedures 10 hours
 - B. Pulverizing road bed 520 hours
 - C. Mixing materials 100 hours
- Total 720 hours

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MOTOR GRADER OPERATOR, FINE GRADE* – CODE 9390

MAXIMUM TRAINING TIME: 52 WEEKS OR 2080 HOURS

*Two training credits will be counted for graduation in this classification

- I. Orientation and Observation
 - A. Safety procedures..... 10 hours
 - B. Observation of machine in operation..... 100 hours
 - C. Starting and manipulating controls for moving equipment and attachments 95 hours
 - II. Care and Maintenance
 - A. Safety procedures..... 10 hours
 - B. Routine fueling, lubricating and servicing 35 hours
 - III. Actual Operation of Equipment
 - A. Safe operating procedures 10 hours
 - B. Scraping and leveling dirt on roadway 305 hours
 - C. Spreading and mixing materials on roadway 295 hours
 - D. Shaping and blading subgrades..... 275 hours
 - E. Balancing and rough shaping base course materials..... 275 hours
 - F. Fine grading and dressing of shoulders and slopes..... 670 hours
- Total 2080 hours

MOTOR GRADER OPERATOR, ROUGH – CODE 9393

MAXIMUM TRAINING TIME: 26 WEEKS OR 1040 HOURS

- I. Orientation and Observation
 - A. Safety procedures..... 10 hours
 - B. Observation of machine in operation..... 100 hours
 - C. Starting and manipulating controls for moving equipment and attachments 95 hours
 - II. Care and Maintenance
 - A. Safety procedures..... 10 hours
 - B. Routine fueling, lubricating and servicing 35 hours
 - III. Actual Operation of Equipment
 - A. Safe operating procedures 10 hours
 - B. Scraping and leveling dirt on roadway 220 hours
 - C. Spreading and mixing materials on roadway 200 hours
 - D. Shaping and blading subgrades..... 180 hours
 - E. Balancing and rough shaping base course materials..... 180 hours
- Total 1040 hours

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PAVEMENT MARKING MACHINE OPERATOR – CODE 9396

MAXIMUM TRAINING TIME: 18 WEEKS OR 720 HOURS

- I. Orientation and Observation
 - A. Safety procedures..... 10 hours
 - B. Observation of machine in operation..... 35 hours
 - II. Care and Maintenance
 - A. Safety procedures..... 10 hours
 - B. Routine fueling, lubricating and servicing 35 hours
 - III. Actual Operation of Machine
 - A. Safe operating procedures 10 hours
 - B. Laying stripes and markers 520 hours
 - C. Loading machine with appropriate materials..... 100 hours
- Total 720 hours

CONCRETE/GUNITE PUMP OPERATOR – CODE 9399

MAXIMUM TRAINING TIME: 18 WEEKS OR 720 HOURS

- I. Orientation and Observation
 - A. Safety procedures..... 10 hours
 - B. Observation of machine in operation..... 35 hours
 - C. Introduction to pumping fresh concrete, gunite and grout..... 100 hours

- II. Care and Maintenance
 - A. Safety procedures..... 10 hours
 - B. Routine fueling, lubricating and servicing 35 hours

- III. Actual Operation of Machine
 - A. Safe operating procedures 10 hours
 - B. Operation of pumping machine..... 520 hours

- Total 720 hours

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ROLLER OPERATOR, ASPHALT - CODE 9402

MAXIMUM TRAINING TIME: 26 WEEKS OR 1040 HOURS

- I. Orientation and Observation
 - A. Safety procedures..... 10 hours
 - B. Observation of machine in operation..... 35 hours

- II. Care and Maintenance
 - A. Safety procedures..... 10 hours
 - B. Routine fueling, lubricating and servicing 35 hours

- III. Actual Operation of Equipment
 - A. Safe operating procedures 10 hours
 - B. Roll base course to desired compaction..... 440 hours
 - C. Roll asphalt surfaces to desired compaction and
smoothness and assure proper sealing of joints 500 hours

- Total 1040 hours

ROLLER OPERATOR, OTHER – CODE 9405

MAXIMUM TRAINING TIME: 13 WEEKS OR 520 HOURS

- I. Orientation and Observation
 - A. Safety procedures..... 10 hours
 - B. Observation of machine in operation..... 35 hours
 - II. Care and Maintenance
 - A. Safety procedures..... 10 hours
 - B. Routine fueling, lubricating and servicing 35 hours
 - III. Actual Operation of Equipment
 - A. Safe operating procedures 10 hours
 - B. Roll base course to desired compaction..... 210 hours
 - C. Roll embankment to desired compaction 210 hours
- Total 520 hours

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SCRAPER OPERATOR – CODE 9411

MAXIMUM TRAINING TIME: 13 WEEKS OR 520 HOURS

- I. Orientation and Observation
 - A. Safety procedures..... 10 hours
 - B. Observation of machine in operation..... 20 hours
 - C. Starting and manipulating controls for moving equipment and attachments 15 hours
 - II. Care and Maintenance
 - A. Safety procedures..... 10 hours
 - B. Routine fueling, lubricating and servicing 35 hours
 - III. Actual Operation of Equipment
 - A. Safe operating procedures 10 hours
 - B. Loading and transporting materials 150 hours
 - C. Spreading material..... 150 hours
 - D. Rough roadway grading 70 hours
 - E. Compaction of embankment..... 50 hours
- Total 520 hours

OFF ROAD HAULER – CODE 9413

MAXIMUM TRAINING TIME: 13 WEEKS OR 520 HOURS

- I. Orientation and Observation
 - A. Safety procedures..... 10 hours
 - B. Observation of machine in operation..... 35 hours

- II. Care and Maintenance
 - A. Safety procedures..... 10 hours
 - B. Routine fueling, lubricating and servicing 35 hours

- III. Actual Operation of Equipment
 - A. Safe operating procedures 10 hours
 - B. Loading and transporting materials 350 hours
 - C. Operation of off-road water tanker.....70 hours

- Total 520 hours

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SELF-PROPELLED HAMMER OPERATOR – CODE 9417

MAXIMUM TRAINING TIME: 13 WEEKS OR 520 HOURS

- I. Orientation and Observation
 - A. Safety procedures..... 10 hours
 - B. Observation of machine in operation..... 35 hours

- II. Care and Maintenance
 - A. Safety procedures..... 10 hours
 - B. Routine fueling, lubricating and servicing 35 hours

- III. Actual Operation of Equipment
 - A. Safe operating procedures 10 hours
 - B. Breaking concrete, asphalt and other materials 350 hours
 - C. Other related tasks70 hours

- Total 520 hours

AGRICULTURAL TRACTOR OPERATOR – CODE 9428

MAXIMUM TRAINING TIME: 13 WEEKS OR 520 HOURS

- I. Orientation and Observation
 - A. Safety procedures..... 10 hours
 - B. Observation of machine in operation..... 30 hours
 - C. Starting and manipulating controls for moving equipment and attachments 25 hours

- II. Care and Maintenance
 - A. Safety procedures..... 10 hours
 - B. Routine fueling, lubricating and servicing 35 hours

- III. Actual Operation of Equipment
 - A. Safe operating procedures 10 hours
 - B. Pulling compaction implements..... 200 hours
 - C. Pull graders for dressing operations 200 hours

- Total 520 hours

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TRENCHING MACHINE OPERATOR, LIGHT – CODE 9437

MAXIMUM TRAINING TIME: 13 WEEKS OR 520 HOURS

- I. Orientation and Observation
 - A. Safety procedures..... 10 hours
 - B. Observation of machine in operation..... 30 hours
 - C. Starting and manipulating controls for moving equipment and attachments 25 hours

- II. Care and Maintenance
 - A. Safety procedures..... 10 hours
 - B. Routine fueling, lubricating and servicing 35 hours

- III. Actual Operation of Equipment
 - A. Safe operating procedures 10 hours
 - B. Excavation for footing and removal of unsuitable materials 100 hours
 - C. Trenching for pipe, etc..... 300 hours

- Total 520 hours

TRENCHING MACHINE OPERATOR, HEAVY – CODE 9440

MAXIMUM TRAINING TIME: 26 WEEKS OR 1040 HOURS

- I. Orientation and Observation
 - A. Safety procedures..... 10 hours
 - B. Observation of machine in operation..... 30 hours
 - C. Starting and manipulating controls for moving equipment and attachments 25 hours
 - II. Care and Maintenance
 - A. Safety procedures..... 10 hours
 - B. Routine fueling, lubricating and servicing 35 hours
 - III. Actual Operation of Equipment
 - A. Safe operating procedures 10 hours
 - B. Excavation for footing and removal of unsuitable materials 320 hours
 - C. Trenching for pipe, etc..... 600 hours
- Total 1040 hours

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TUNNELING MACHINE OPERATOR, HEAVY – CODE 9441

MAXIMUM TRAINING TIME: 39 WEEKS OR 1560 HOURS

- I. Orientation and Observation
 - A. Safety procedures..... 10 hours
 - B. Elementary surveying of tunnel alignment and grade..... 60 hours
 - C. General tunneling procedures and operation 200 hours
 - II. Care and Maintenance
 - A. Safety procedures..... 10 hours
 - B. Routine lubricating and servicing..... 35 hours
 - C. Electrical connections, motors, and switches... 40 hours
 - D. Hydraulic components, use and maintenance... 40 hours
 - E. Spoil haulage equipment and track installation, use and maintenance 40 hours
 - III. Actual Operation of Equipment
 - A. Safe operating procedures 10 hours
 - B. Soft ground tunneling..... 225 hours
 - C. Ground stabilization 150 hours
 - D. Rock tunneling..... 240 hours
 - E. Direct pipe jacking 240 hours
 - F. Two pass tunneling 240 hours
 - G. Grouting 20 hours
- Total 1560 hours

TUNNELING MACHINE OPERATOR, LIGHT – CODE 9442

MAXIMUM TRAINING TIME: 18 WEEKS OR 720 HOURS

- I. Orientation and Observation
 - A. Safety procedures 10 hours
 - B. Elementary surveying of tunnel alignment and grade 40 hours
 - C. General boring procedures and operation 150 hours

- II. Care and Maintenance
 - A. Safety procedures..... 10 hours
 - B. Routine lubricating and servicing..... 35 hours
 - C. Hydraulic components, use and maintenance 40 hours

- III. Actual Operation of Equipment
 - A. Safe operating procedures 10 hours
 - B. Soft ground tunneling..... 225 hours
 - C. Rock tunneling..... 200 hours

- Total 720 hours

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PERCUSSION OR ROTARY DRILL OPERATOR – CODE 9443

MAXIMUM TRAINING TIME: 13 WEEKS OR 520 HOURS

- I. Orientation and Observation
 - A. Safety procedures..... 10 hours
 - B. General drilling procedures and operation..... 65 hours

- II. Care and Maintenance
 - A. Safety procedures..... 10 hours
 - B. Routine fueling, lubricating and servicing 35 hours

- III. Actual Operation of Equipment
 - A. Safe operating procedures 10 hours
 - B. Small hole drilling 195 hours
 - C. Large hole drilling 195 hours

- Total 520 hours

BORING MACHINE OPERATOR – CODE 9444

MAXIMUM TRAINING TIME: 18 WEEKS OR 720 HOURS

- I. Orientation and Observation
 - A. Safety procedures 10 hours
 - B. Elementary surveying of tunnel alignment and grade 40 hours
 - C. General boring procedures and operation 150 hours

 - II. Care and Maintenance
 - A. Safety procedures..... 10 hours
 - B. Routine lubricating and servicing..... 35 hours
 - C. Hydraulic components, use and maintenance 40 hours

 - III. Actual Operation of Equipment
 - A. Safe operating procedures 10 hours
 - B. Soft Ground tunneling..... 225 hours
 - C. Rock tunneling..... 200 hours
- Total 720 hours

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DIRECTIONAL DRILLING OPERATOR – CODE 9445

MAXIMUM TRAINING TIME: 26 WEEKS OR 1040 HOURS

- I. Orientation and Observation
 - A. Safety procedures..... 10 hours
 - B. General drilling procedures and operation..... 65 hours
 - C. Identification of steering head tools 65 hours
 - D. Controlling drill speed and direction..... 65 hours
 - E. Pullback of pipe..... 65 hours

 - II. Care and Maintenance
 - A. Safety procedures..... 10 hours
 - B. Drilling fluid characteristics..... 65 hours
 - C. Routine fueling, lubricating and servicing 35 hours

 - III. Actual Operation of Equipment
 - A. Safe operating procedures 10 hours
 - B. Operation of directional drilling machine 650 hours
- Total 1040 hours

DIRECTIONAL DRILLING LOCATOR – CODE 9446

MAXIMUM TRAINING TIME: 18 WEEKS OR 720 HOURS

- I. Orientation and Observation
 - A. Safety procedures..... 10 hours
 - B. General locating equipment operation 55 hours
 - II. Care and Maintenance
 - A. Safety procedures..... 10 hours
 - B. Routine fueling, lubricating and servicing 35 hours
 - III. Actual Operation of Equipment
 - A. Safe operating procedures 10 hours
 - B. Machine setup..... 200 hours
 - C. Operation of locating equipment..... 400 hours
- Total 720 hours

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REINFORCING STEEL WORKER – CODE 9500

MAXIMUM TRAINING TIME: 18 WEEKS OR 720 HOURS

- I. Orientation and Observation
 - A. Safety procedures..... 10 hours
 - B. Observation of steel being set and welding of rods 15 hours
 - II. Care and Maintenance
 - A. Safety procedures..... 10 hours
 - B. Steel bar placement..... 50 hours
 - III. Actual Steel Setting
 - A. Safety procedures..... 10 hours
 - B. Rod placement and fastening 300 hours
 - C. Rod cutting and welding 175 hours
 - D. Fabrication of reinforcement assembly 150 hours
- Total 720 hours

STRUCTURAL STEEL WORKER – CODE 9509

MAXIMUM TRAINING TIME: 26 WEEKS OR 1040 HOURS

- I. Orientation and Observation
 - A. Safety procedures..... 10 hours
 - B. Observation of steel worker 20 hours

- II. Care and Maintenance
 - A. Safety procedures..... 10 hours
 - B. Tool review 10 hours

- III. Operating with Steel Workers
 - A. Safety procedures..... 10 hours
 - B. Raise and place fabricated structural steel 150 hours
 - C. Emphasis on girders, plates and columns 100 hours
 - D. Fasten steel members together by welding or bolting 400 hours
 - E. Signal erection crane, rig equipment..... 330 hours

- Total 1040 hours

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SIGN ERECTOR – CODE 9513

MAXIMUM TRAINING TIME: 26 WEEKS OR 1040 HOURS

- I. Orientation and Safe Use of Tools and Equipment
 - A. Safety procedures..... 10 hours
 - B. Power and hand tools..... 20 hours
 - C. Special fittings and hardware 10 hours
 - D. Specifications or design for concrete mixer 20 hours

- II. Basic Design Familiarity
 - A. Blueprint or Construction Plans Reading..... 50 hours

- III. Applied Techniques of Sign Erection
 - A. Safety procedures..... 10 hours
 - B. Preparation of layout for signs..... 30 hours
 - C. Cuts, ties and sets reinforcing steel for footings..... 25 hours
 - D. Sets forms for, places concrete and sets anchor bolts..... 300 hours
 - E. Erects wood or metal structures 250 hours
 - F. Places clamps, brackets or other required hardware on structures 250 hours
 - G. Stripping and Salvage of Forms for Re-use 65 hours

- Total 1040 hours

SPREADER BOX OPERATOR – CODE 9515

MAXIMUM TRAINING TIME: 13 WEEKS OR 520 HOURS

- I. Orientation and Observation
 - A. Safety procedures..... 10 hours
 - B. Observation of machine in operation..... 25 hours
 - C. Starting, stopping and manipulating controls for moving equipment and attachments..... 20 hours
 - II. Care and Maintenance
 - A. Safety procedures..... 10 hours
 - B. Routine fueling, lubricating and servicing 35 hours
 - III. Actual Operation of Equipment
 - A. Safety procedures..... 10 hours
 - B. Selection and loading of materials..... 40 hours
 - C. Spreading of stone or other granular materials..... 370 hours
- Total 520 hours

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WORK ZONE BARRICADE SERVICER – CODE 9520

MAXIMUM TRAINING TIME: 18 WEEKS OR 720 HOURS

- I. Orientation and Observation
 - A. Safety procedures..... 10 hours
 - B. Operation of traffic control truck..... 15 hours
 - C. Traffic control device orientation 25 hours
 - II. Care and Maintenance
 - A. Safety procedures..... 10 hours
 - B. Care and storage of equipment and materials 35 hours
 - III. Traffic Control Operation
 - A. Safety procedures..... 10 hours
 - B. Fabrication of traffic control devices..... 140 hours
 - C. Erection and Maintenance of traffic control devices..... 395 hours
 - D. Operation of traffic control truck..... 80 hours
- Total 720 hours

TRUCK DRIVER, SINGLE AXLE – CODE 9600
(May require CDL license for driving on highway)

MAXIMUM TRAINING TIME: 13 WEEKS OR 520 HOURS

- I. Orientation and Observation
 - A. Safety procedures..... 10 hours
 - B. Observation (as a passenger) of vehicle in operation50 hours
 - C. Starting and manipulating vehicle 40 hours
 - II. Care and Maintenance
 - A. Safety procedures..... 10 hours
 - B. Routine fueling, lubricating and servicing 35hours
 - III. Actual Operation of Equipment
 - A. Safe operating procedures 10 hours
 - B. Loading and unloading materials and operation of vehicle 365 hours
- Total 520 hours

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TRUCK DRIVER, SINGLE OR TANDEM AXLE DUMP TRUCK – CODE 9606
(May require CDL license for driving on highway)

MAXIMUM TRAINING TIME: 18 WEEKS OR 720 HOURS

- I. Orientation and Observation
 - A. Safety procedures..... 10 hours
 - B. Observation (as a passenger) of vehicle in operation50 hours
 - C. Starting and manipulating vehicle 40 hours
 - II. Care and Maintenance
 - A. Safety procedures..... 10 hours
 - B. Routine fueling, lubricating and servicing 35 hours
 - III. Actual Operation of Equipment
 - A. Safe operating procedures 10 hours
 - B. Loading and unloading materials and operation of vehicle 565 hours
- Total 720 hours

TRUCK DRIVER, TANDEM AXLE TRACTOR WITH SEMI TRAILER – CODE 9607
(May require CDL license for driving on highway)

MAXIMUM TRAINING TIME: 26 WEEKS OR 1040 HOURS

- I. Orientation and Observation
 - A. Safety procedures..... 10 hours
 - B. Observation (as a passenger) of vehicle in operation50 hours
 - C. Starting and manipulating vehicle 40 hours
 - II. Care and Maintenance
 - A. Safety procedures..... 10 hours
 - B. Routine fueling, lubricating and servicing 35 hours
 - III. Actual Operation of Equipment
 - A. Safe operating procedures 10 hours
 - B. Loading and unloading materials and operation of vehicle 885 hours
- Total 1040 hours

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TRUCK DRIVER LOWBOY- FLOAT – CODE 9609
(May require CDL license for on-highway use)

MAXIMUM TRAINING TIME: 26 WEEKS OR 1040 HOURS

- I. Orientation and Observation
 - A. Safety procedures..... 10 hours
 - B. Observation (as a passenger) of vehicle in operation50 hours
 - C. Starting and manipulating vehicle 40 hours
 - II. Care and Maintenance
 - A. Safety procedures..... 10 hours
 - B. Routine fueling, lubricating and servicing 35 hours
 - III. Actual Operation of Equipment
 - A. Safe operating procedures 10 hours
 - B. Loading and unloading materials and operation of vehicle 500 hours
 - C. Loading and unloading equipment..... 385 hours
- Total 1040 hours

TRUCK DRIVER TRANSIT-MIX – CODE 9612
(May require CDL license for on-highway use)

MAXIMUM TRAINING TIME: 26 WEEKS OR 1040 HOURS

- I. Orientation and Observation
 - A. Safety procedures..... 10 hours
 - B. Observation (as a passenger) of vehicle in operation50 hours
 - C. Starting and manipulating vehicle 40 hours
 - II. Care and Maintenance
 - A. Safety procedures..... 10 hours
 - B. Routine fueling, lubricating and servicing35 hours
 - III. Actual Operation of Equipment
 - A. Safe operating procedures 10 hours
 - B. Mixing materials20 hours
 - C. Loading materials at plant 115 hours
 - D. Operation of vehicle... 600 hours
 - E. Discharging materials... 150 hours
- Total 1040 hours

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BOOM TRUCK OPERATOR – CODE 9615
(May require CDL license for on-highway use)

MAXIMUM TRAINING TIME: 26 WEEKS OR 1040 HOURS

- I. Orientation and Observation
 - A. Safety procedures..... 10 hours
 - B. Observation (as a passenger) of vehicle in operation50 hours
 - C. Starting and manipulating vehicle 40 hours
 - II. Care and Maintenance
 - A. Safety procedures..... 10 hours
 - B. Routine fueling, lubricating and servicing35 hours
 - III. Actual Operation of Equipment
 - A. Safe operating procedures 10 hours
 - B. Loading and unloading materials 410 hours
 - C. Hoisting materials 475 hours
- Total 1040 hours

STRUCTURAL STEEL WELDER* – CODE 9705
(Requires certification by the American Welding Society)

MAXIMUM TRAINING TIME: 52 WEEKS OR 2080 HOURS

*Two training credits will be counted for graduation in this classification

I. Orientation and Observation	
A. Safety procedures.....	10 hours
B. Welding equipment	20 hours
C. Materials selection.....	20 hours
D. Observation of welder	20 hours
E. Observation of welding of permanent metal deck forms.....	40 hours
II. Applied Techniques of Welding	
A. Safety procedures.....	10 hours
B. Acetylene-cutting, brazing and welding.....	300 hours
C. Electric-cutting and welding.....	300 hours
III. Actual Welding Operations	
A. Safety procedures.....	10 hours
B. Cut, lay out, fit and weld	700 hours
C. Structural steel welding	650 hours
Total	2080 hours

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WELDER – CODE 9706

MAXIMUM TRAINING TIME: 26 WEEKS OR 1040 HOURS

I. Orientation and Observation	
A. Safety procedures.....	10 hours
B. Welding equipment	20 hours
C. Materials selection.....	20 hours
D. Observation of welder	20 hours
II. Applied Techniques of Welding	
A. Safety procedures	10 hours
B. Acetylene-cutting, brazing and welding.....	300 hours
C. Electric-cutting and welding.....	300 hours
III. Actual Welding Operations	
A. Safety procedures.....	10 hours
B. Cut, lay out, fit and weld sheet metal, cast iron and other metal parts.....	350 hours
Total	1040 hours

SLURRY SEAL OR MICRO-SURFACING MACHINE OPERATOR – CODE 9708

MAXIMUM TRAINING TIME: 26 WEEKS OR 1040 HOURS

- I. Orientation and Observation
 - A. Safety procedures..... 10 hours
 - B. Observation of machine in operation..... 35 hours
 - C. Starting and manipulating controls for moving equipment and attachments 30 hours

- II. Care and Maintenance
 - A. Safety procedures..... 10 hours
 - B. Routine fueling, lubricating and servicing 35 hours

- III. Actual Operation of Equipment
 - A. Safe operating procedures 10 hours
 - B. Screed regulation indoctrination and operation 120 hours
 - C. Operation of machine and leveling of materials..... 790 hours

- Total 1040 hours