



COLORADO
Department of Transportation

CDOT Pre-Approved Classification Program (PAC-UP)

June 2024

Program Guide

Program Summary

Any contractor who is working on a CDOT contract that has FHWA federal money and a contract OJT goal (greater than zero) can use the CDOT PAC-UP program. The contractor shall track their own trainee's hours toward each individual module and craft area. Contractors must accurately record hours in CDOT's LCPtracker system using the correct OJT classification code for all applicable hours worked on the contract being reported. Discrepancies between the payroll and the CDOT Form 838/832 must be addressed and resolved. Future form approvals may not be granted until these discrepancies are resolved.

Registration

New and returning employees must be registered for each project using the CDOT Form 838, OJT Trainee/Apprentice Record. A contractor's trainee can be working on different CDOT projects simultaneously. Employees can be functioning as a PAC-UP trainee within one craft area and up to four different classifications simultaneously.

Wages

The minimum wages applicable for these pre-approved trainee classifications are set forth in CDOT's Standard Special Provision for On-the-Job Training.

Graduation

Upon completion of training hours, OJT graduation certificates must be provided to the trainees for individual modules and craft areas and uploaded into LCPtracker. A template for graduation certificates is located within LCPtracker.

A trainee can graduate in two ways: module or craft area. There are three craft areas: heavy equipment, structures, and concrete.

1. Heavy Equipment - Craft Area

Modules within the Heavy Equipment Craft Area:

Asphalt Distributor Operator, Asphalt Paving Machine/Laydown Machine Operator, Asphalt Plant Operator, Asphalt Screed Operator, Backhoe Operator, Bobcat/Skid Steer Operator, Broom/Sweeper Operator, Bulldozer Operator, Crane Operator (80 tons or less), Drill Operator (Truck Mounted), Excavator/Trackhoe Operator, Front End Loader Operator, Milling (Planing) Machine Operator, Motor Grader Operator, Roller Operator - Dirt and Grade Compaction, Scraper (Earth Mover) Operator, Shuttle Buggy/Transfer Machine Operator, Truck Driver Operator (Multi-Rear Axle)

2. Structures - Craft Area

Modules within the Structures Craft Area:

Form Setter, Form Builder, Ironworkers (Reinforcing)

3. Concrete - Craft Area

Modules within the Concrete Craft Area:

Concrete Finisher, Concrete Paver Operator, Concrete Finishing Machine Operator, Concrete Paving Joint Machine Operator, Concrete Paving Spreader Operator

4. Other Single Modules - this is not a Craft Area

Asphalt Raker, (Hand Held) Concrete Saw Operator, Painter, QC Technician-Roadway, Traffic Control Supervisor, Grade Checker

Module

The completion of required hours (Rqrd) for each pre-approved classification is one module. For each module graduation, the contractor will print out a copy of the hours obtained by the employee and will present the employee this list of completed (Rqrd) hours with a certificate which can be obtained through LCPtracker.

Craft Area

For the graduation of the concrete and heavy equipment craft area, each employee will need to meet 2080 hours. For graduation of the structures area, each employee will need to meet 1700 hours. The contractor will work with CDOT to ensure that the employee met the requirements of the entire craft area by providing hours and certificates of the previous module graduation.

Other Single Modules

For the classifications listed as "other," they will not contribute toward a craft area but are stand-alone modules for on-the-job training.

Please note: if there are any payroll classifications not included on CDOT's wage decision(s) for a selected module, the contractor will be required to submit the requested classification through a DOL Form 1444. **Failure to conform this wage to the wage decision will result in the inability to use this classification in the PAC-UP program.**

Part I – Heavy Equipment Operation

- 1) Asphalt Distributor Operator
- 2) Asphalt Paving / Laydown Machine Operator
- 3) Asphalt Plant Operator
- 4) Asphalt Screed Operator
- 5) Backhoe Operator
- 6) Bobcat / Skid Steer Operator
- 7) Broom / Sweeper Operator
- 8) Bulldozer Operator
- 9) Crane Operator (80 tons or less)
- 10) Drill Operator (Truck Mounted)
- 11) Excavator / Trackhoe Operator
- 12) Front End Loader Operator
- 13) Milling (Planing) Machine Operator
- 14) Motor Grader Operator
- 15) Roller Operator - Dirt and Grade Compaction
- 16) Scraper (Earth Mover) Operator
- 17) Shuttle Buggy/Transfer Machine Operator
- 18) Truck Driver Operator (Multi-Rear Axle)

Part II – Structures

- 1) Form Setter (precursor to form builder)
- 2) Form Builder
- 3) Ironworkers (Reinforcing)

Part III – Concrete

- 1) Concrete Finisher
- 2) Concrete Paver Operator
- 3) Concrete Finishing Machine Operator
- 4) Concrete Paving Joint Machine Operator
- 5) Concrete Paving Spreader Operator

Other -- Single Area Modules

- 1) Asphalt Raker
- 2) (Hand Held) Concrete Saw Operator
- 3) Grade Checker
- 4) Painter
- 5) QC Technician- Roadway
- 6) Traffic Control Supervisor

| CDOT PAC-UP Classification Crosswalk | | | | | |
|---|--|----------------|-----------------------------------|---------------------------|---|
| PAC-UP Modules | Work Classification on the Wage Decision | 1444 Required? | Identified Craft in Wage Decision | Total # of Hours Required | Notes |
| Please note: if there are any payroll classifications not included on CDOT's wage decision(s) for a selected module, the contractor will be required to submit the requested classification through a DOL Form 1444. Failure to conform this wage to the wage decision will result in the inability to use this classification in the PAC-UP program. | | | | | |
| Heavy Equipment Craft Area | | | | | |
| Asphalt Distributor Operator | Truck driver: Distributor | | Truck Driver | 1,040 | If the asphalt distributor truck is a multi-rear axle, the correct module for this classification is asphalt distributor operator and not truck driver (multi-rear axle). |
| Asphalt Paving Machine/Laydown Machine Operator | PEO: Asphalt Laydown | | Power Equipment Operator | 1,040 | Contractors must choose either the asphalt paver operator or the asphalt laydown operator and indicate that choice on the CDOT form 838. |
| Asphalt Plant Operator | PEO: Asphalt Plant | | Power Equipment Operator | 1,050 | |
| Asphalt Screed Operator | PEO: Screed | | Power Equipment Operator | 1,020 | |
| Backhoe Operator | PEO: Backhoe/Trackhoe | | Power Equipment Operator | 720 | |
| Bobcat/Skid Steer Operator | PEO: Bobcat/Skid Loader | | Power Equipment Operator | 320 | |
| Broom/Sweeper Operator | PEO: Broom/Sweeper | | Power Equipment Operator | 520 | |
| Bulldozer Operator | PEO: Bulldozer | | Power Equipment Operator | 720 | |
| Crane Operator (80 tons or less) | PEO: Crane | | Power Equipment Operator | 1,040 | |
| Drill Operator (Truck Mounted) | PEO: Drill | | Power Equipment Operator | 1,040 | |
| Excavator / Trackhoe Operator | PEO: Backhoe/Trackhoe | | Power Equipment Operator | 720 | |
| Front End Loader Operator | PEO: Loader (Front End) | | Power Equipment Operator | 720 | |
| Milling (Planing) Machine Operator | PEO: Rotomill | | Power Equipment Operator | 1,040 | |
| Motor Grader Operator | PEO: Grader/Blade | | Power Equipment Operator | 1,040 | |
| Roller Operator - Dirt and Grade Compaction | PEO: Roller/Compactor (Dirt and Grade) | | Power Equipment Operator | 1,040 | |
| Scraper (Earth Mover) Operator | PEO: Scraper | | Power Equipment Operator | 520 | Some wage determinations will include "Scraper," and others may provide the distinction between "Single Bowl Under 40 Cubic Yards" and "40 Cubic Yards and Over." Any of the mentioned classifications may be used for this module and properly noted on the CDOT form 838. |

| CDOT PAC-UP Classification Crosswalk | | | | | |
|---|--|------------------------|-----------------------------------|---------------------------|---|
| PAC-UP Modules | Work Classification on the Wage Decision | 1444 Required? | Identified Craft in Wage Decision | Total # of Hours Required | Notes |
| Shuttle Buggy / Transfer Machine Operator | Need Wage Conformance | Yes | Power Equipment Operator | 720 | |
| Truck Driver (Multi-Rear Axle) | more than one axle on the back. depends- this could be a dump truck, low boy, semi/trailer truck, maybe water truck. | | Truck Driver | 1,040 | |
| Structures Craft Area | | | | | |
| Form Setter | Carpenter: Form Work Only | | Carpenter | 720 | If an employee is working in the form setter and form builder modules to work toward the craft graduation of structures, the form setter must precede form builder in OJT work. |
| Form Builder | Carpenter: Form Work Only | | Carpenter | 720 | |
| Ironworkers (Reinforcing) | Ironworker: Reinforcing | | Ironworker | 720 | |
| Concrete Craft Area | | | | | |
| Concrete Finisher | Cement Mason/Concrete Finisher | | Cement Mason/Concrete Finisher | 1,040 | The mason tender classification under laborer should not be used for the purposes of OJT. |
| Concrete Paver Operator | Need Wage Conformance | yes | | 1,040 | |
| Concrete Finishing Machine Operator | Need Wage Conformance | yes | | 1,040 | |
| Concrete Paving Joint Machine Operator | Need Wage Conformance | yes | | 720 | |
| Concrete Paving Spreader Operator | Need Wage Conformance | yes | | 1,040 | |
| Other Single Modules | | | | | |
| Asphalt Raker | Laborer: Asphalt Raker | | Laborer | 520 | |
| (Hand Held) Concrete Saw Operator | Laborer: Concrete Saw (Hand Held) | | Laborer | 1,040 | |
| Grader Checker | PEO: Grade Checker | yes- for some counties | Power Equipment Operator | 520 | The grade checker classification is included on some wage determinations and omitted in others. Therefore, a 1444 may be required as part of the process. |
| Painter | Painter: Spray Only | possibly- see notes | Painter | 520 | If a brush or roller is used, a wage conformance will be required. |
| QC Technician - Roadway | Need Wage Conformance | yes | | 1,040 | |
| Traffic Control Supervisor | Truck Driver: Pickup and Pilot Car | | | 850 | For the use of an OJT classification for TCS, contractors must use the truck driver: pickup and pilot car classification to get credit toward the goal. |

Modules within the Heavy Equipment Craft Area

Asphalt Distributor Operator

Duties

- Drives asphalt distributor
- Sets spray bar on manual, automatic, or semi-automatic distributors for applying liquid asphalt
- May oil, grease, service, and make normal operating adjustments to equipment
- May perform other related duties

| Orientation and Observation | Training Hours Rqrd | Checklist |
|---|----------------------------|--------------------------|
| A. Safety procedures | 10 | <input type="checkbox"/> |
| B. Observation of machine in operation | 35 | <input type="checkbox"/> |
| C. Starting and manipulating valves and levers to distribute material | 30 | <input type="checkbox"/> |

| Care and Maintenance | Training Hours Rqrd | Checklist |
|--|----------------------------|--------------------------|
| D. Safety procedures | 5 | <input type="checkbox"/> |
| E. Routine fueling, lubricating, and servicing | 35 | <input type="checkbox"/> |

| Actual Operation of Equipment | Training Hours Rqrd | Checklist |
|--|----------------------------|--------------------------|
| A. Safe operating procedures | 5 | <input type="checkbox"/> |
| B. Regulates valves and levers to distribute oil for highway surfacing | 120 | <input type="checkbox"/> |
| C. Operation of machine | 800 | <input type="checkbox"/> |
| Total | 1,040 hours | |

Asphalt Paving Machine / Laydown Machine Operator

Duties

- Drives laydown machine
- Manipulates levers, electronic ski, stringline to control movements of paving machine that spreads and levels asphaltic concrete on subgrade of highway
- Regulates the height and width of screed and speed of machine in accordance with specifications
- May oil, grease, or otherwise service and make necessary adjustments to equipment as needed
- May perform other related duties

| Orientation and Observation | Training Hours Rqrd | Checklist |
|--|----------------------------|--------------------------|
| A. Safety procedures | 10 | <input type="checkbox"/> |
| B. Observation of machine in operation | 35 | <input type="checkbox"/> |
| C. Starting and manipulating levers to distribute material | 30 | <input type="checkbox"/> |

| Care and Maintenance | Training Hours Rqrd | Checklist |
|--|----------------------------|--------------------------|
| A. Safety procedures | 5 | <input type="checkbox"/> |
| B. Routine fueling, lubricating, and servicing | 35 | <input type="checkbox"/> |

| Actual Operation of Equipment | Training Hours Rqrd | Checklist |
|---|----------------------------|--------------------------|
| A. Safe operating procedures | 5 | <input type="checkbox"/> |
| B. Screed regulation indoctrination and operation | 120 | <input type="checkbox"/> |
| C. Operation of machine | 800 | <input type="checkbox"/> |

| | | |
|--------------|--------------------|--|
| Total | 1,040 hours | |
|--------------|--------------------|--|

Asphalt Plant Operator

Duties

- Operates asphalt plant controls to weigh and deliver specified quantities of aggregates and asphalt cement to dryer for heating and to mixer for mixing and dumping into trucks
- Maintains proper heat in dryer by adjusting thermostatic controls and maintains proper flow of materials
- Assists in maintenance and repair of plant equipment
- May perform other related duties

| Orientation and Observation | Training Hours Rqrd | Checklist |
|---|----------------------------|--------------------------|
| A. Safety procedures | 10 | <input type="checkbox"/> |
| B. Observation of machine in operation | 40 | <input type="checkbox"/> |
| C. Adjustment of scales, operation of controls, levers, and attachments | 40 | <input type="checkbox"/> |

| Care and Maintenance | Training Hours Rqrd | Checklist |
|---|----------------------------|--------------------------|
| A. Safety procedures | 10 | <input type="checkbox"/> |
| B. Routine fueling, lubricating, and servicing | 120 | <input type="checkbox"/> |
| C. Assists in maintenance and repair of plant equipment | 120 | <input type="checkbox"/> |

| Actual Operation of Equipment | Training Hours Rqrd | Checklist |
|--|----------------------------|--------------------------|
| A. Safe operating procedures | 10 | <input type="checkbox"/> |
| B. Operates controls and scales for measurement and discharge of asphaltic materials into trucks or carriers | 700 | <input type="checkbox"/> |

| | | |
|--------------|--------------------|--|
| Total | 1,050 hours | |
|--------------|--------------------|--|

Asphalt Screed Operator

Duties

- Operates screed on an asphalt paver
- Makes normal operating adjustments for obtaining proper depth, grade, and finished cross section
- May perform other related duties

| Orientation and Observation | Training Hours Rqrd | Checklist |
|--|----------------------------|--------------------------|
| A. Safety procedures | 15 | <input type="checkbox"/> |
| B. Observation of machine in operation | 40 | <input type="checkbox"/> |

| Care and Maintenance | Training Hours Rqrd | Checklist |
|---|----------------------------|--------------------------|
| A. Safety procedures | 15 | <input type="checkbox"/> |
| B. Routine fueling, lubricating, and servicing | 120 | <input type="checkbox"/> |
| C. Assists in maintenance and repair of plant equipment | 120 | <input type="checkbox"/> |

| Actual Operation of Equipment | Training Hours Rqrd | Checklist |
|--|----------------------------|--------------------------|
| A. Safe operating procedures | 10 | <input type="checkbox"/> |
| B. Operates controls and scales for measurement and discharge of asphaltic materials into trucks or carriers | 700 | <input type="checkbox"/> |

| | | |
|--------------|--------------------|--|
| Total | 1,020 hours | |
|--------------|--------------------|--|

Backhoe Operator

Duties

- Operates backhoe with or without accessories (attachments) such as is on rear of utility tractor and on other equipment, for the purpose of digging and excavating
- May oil, grease, and make normal operating adjustments to the machine
- May perform other related duties

| Orientation and Observation | Training Hours Rqrd | Checklist |
|--|----------------------------|--------------------------|
| A. Safety procedures | 5 | <input type="checkbox"/> |
| B. Observation of machine in operation | 20 | <input type="checkbox"/> |
| C. Starting and manipulating levers for moving equipment and attachments | 20 | <input type="checkbox"/> |

| Care and Maintenance | Training Hours Rqrd | Checklist |
|--|----------------------------|--------------------------|
| A. Safety procedures | 5 | <input type="checkbox"/> |
| B. Routine fueling, lubricating, and servicing | 70 | <input type="checkbox"/> |

| Actual Operation of Equipment | Training Hours Rqrd | Checklist |
|---|----------------------------|--------------------------|
| A. Safe operating procedures | 5 | <input type="checkbox"/> |
| B. Trenching operations (for pipe laying, etc.) | 275 | <input type="checkbox"/> |
| C. Excavation (for structures, footings, etc.) | 280 | <input type="checkbox"/> |
| D. Special applications and functions | 40 | <input type="checkbox"/> |

| | |
|--------------|------------------|
| Total | 720 hours |
|--------------|------------------|

Bobcat / Skid Steer Operator

Duties

- Operates skid steer for digging, hauling, and/or transportation materials
- Used in demolition for exterior projects
- Clearing snow, brush, and other debris
- May oil, grease, and make normal operating adjustments to the machine
- May perform other related duties

| Orientation and Observation | Training Hours Rqrd | Checklist |
|--|----------------------------|--------------------------|
| A. Safety procedures | 10 | <input type="checkbox"/> |
| B. Observation of machine in operation | 10 | <input type="checkbox"/> |
| C. Starting and manipulating levers for moving equipment and attachments | 10 | <input type="checkbox"/> |

| Care and Maintenance | Training Hours Rqrd | Checklist |
|--|----------------------------|--------------------------|
| A. Safety procedures | 10 | <input type="checkbox"/> |
| B. Routine fueling, lubricating, and servicing | 35 | <input type="checkbox"/> |

| Actual Operation of Equipment | Training Hours Rqrd | Checklist |
|--------------------------------------|----------------------------|--------------------------|
| A. Safe operating procedures | 10 | <input type="checkbox"/> |
| B. Loading Material | 135 | <input type="checkbox"/> |
| C. Operation of Machine | 100 | <input type="checkbox"/> |

| | | |
|--------------|------------------|--|
| Total | 320 hours | |
|--------------|------------------|--|

Broom / Sweeper Operator

Duties

- Remove debris and trash from road surfaces
- Uses mechanical or vacuum cleaning equipment to remove particulates from pavement or street surfaces before stormwater runoff washes potentially hazardous materials into rivers, streams, habitats, and residential properties
- May oil, grease, and make normal operating adjustments to machine
- May perform other related duties

| Orientation and Observation | Training Hours Rqrd | Checklist |
|--|----------------------------|--------------------------|
| A. Safety procedures | 10 | <input type="checkbox"/> |
| B. Observation of machine in operation | 5 | <input type="checkbox"/> |
| C. Starting and manipulating controls for moving equipment and attachments | 10 | <input type="checkbox"/> |

| Care and Maintenance | Training Hours Rqrd | Checklist |
|--|----------------------------|--------------------------|
| A. Safety procedures | 10 | <input type="checkbox"/> |
| B. Routine fueling, lubricating, and servicing | 35 | <input type="checkbox"/> |

| Actual Operation of Equipment | Training Hours Rqrd | Checklist |
|---|----------------------------|--------------------------|
| A. Safe operating procedures | 10 | <input type="checkbox"/> |
| B. Proper start-up, engagement, and position of broom | 10 | <input type="checkbox"/> |
| C. Proper sweeping technique | 10 | <input type="checkbox"/> |
| D. Removal and replacement of broom wafers | 10 | <input type="checkbox"/> |
| E. Operation of sweeper in cleaning pavement | 410 | <input type="checkbox"/> |

| | |
|--------------|------------------|
| Total | 520 hours |
|--------------|------------------|

Bulldozer Operator

Duties

- Performs work such as, but not limited to, moving materials in stockpile, rough work on grade, pusher for loading scrapers and earthmovers, etc.
- Operates the equipment with other attachments such as, but not limited to, clearing rake, ripper, stumper, push block, etc.
- Capable of carrying grade and line
- May oil, grease, service, and make normal operating adjustments to machine
- May perform other related duties

| Orientation and Observation | Training Hours Rqrd | Checklist |
|--|----------------------------|--------------------------|
| A. Safety procedures | 5 | <input type="checkbox"/> |
| B. Observation of machine in operation | 35 | <input type="checkbox"/> |
| C. Starting and manipulating controls for moving equipment and attachments | 30 | <input type="checkbox"/> |

| Care and Maintenance | Training Hours Rqrd | Checklist |
|--|----------------------------|--------------------------|
| A. Safety procedures | 5 | <input type="checkbox"/> |
| B. Routine fueling, lubricating, and servicing | 35 | <input type="checkbox"/> |

| Actual Operation of Equipment | Training Hours Rqrd | Checklist |
|---|----------------------------|--------------------------|
| A. Safe operating procedures | 5 | <input type="checkbox"/> |
| B. Movement and stockpiling of material | 150 | <input type="checkbox"/> |
| C. Pushing and rough grading | 125 | <input type="checkbox"/> |
| D. Clearing and grubbing | 125 | <input type="checkbox"/> |
| E. Finish grading | 175 | <input type="checkbox"/> |
| F. Special application | 30 | <input type="checkbox"/> |

| | |
|--------------|------------------|
| Total | 720 hours |
|--------------|------------------|

Crane Operator (80 tons or less)

Duties

- Operates boom type equipment to hoist and move materials, raise, and lower heavy weights, and performs other related operations
- Equipment is used for such work as excavation, pouring concrete, and setting steel that requires close conformance to specifications and is subjected to a strict inspection
- May oil, grease, or otherwise service
- Makes adjustments to equipment as necessary
- Performs other related duties

| Orientation and Observation | Training Hours Rqrd | Checklist |
|--|----------------------------|--------------------------|
| A. Safety procedures | 10 | <input type="checkbox"/> |
| B. Observation of machine in operation | 35 | <input type="checkbox"/> |
| C. Starting and manipulating levers for moving equipment and attachments | 30 | <input type="checkbox"/> |

| Care and Maintenance | Training Hours Rqrd | Checklist |
|--|----------------------------|--------------------------|
| A. Safety procedures | 10 | <input type="checkbox"/> |
| B. Routine fueling, lubricating, and servicing | 100 | <input type="checkbox"/> |

| Actual Operation of Equipment | Training Hours Rqrd | Checklist |
|---|----------------------------|--------------------------|
| A. Safe operating procedures | 5 | <input type="checkbox"/> |
| B. Automatic screed regulation indoctrination and servicing | 120 | <input type="checkbox"/> |
| C. Operation of machine | 730 | <input type="checkbox"/> |

| | |
|--------------|--------------------|
| Total | 1,040 hours |
|--------------|--------------------|

Drill Operator (Truck Mounted)

Duties

- Operates drilling machine, such as wagon drill, air trac, well driller, etc., for the purpose of drilling rock, shale, or other materials
- Starts, stops, and services portable air compressor
- May oil, grease, service, and make normal operating adjustments to equipment
- May perform other related duties

| Orientation and Observation | Training Hours Rqrd | Checklist |
|--|----------------------------|--------------------------|
| A. Safety procedures | 10 | <input type="checkbox"/> |
| B. Observation of machine in operation | 35 | <input type="checkbox"/> |
| C. Starting and manipulating levers for moving equipment and attachments | 30 | <input type="checkbox"/> |

| Care and Maintenance | Training Hours Rqrd | Checklist |
|--|----------------------------|--------------------------|
| A. Safety procedures | 10 | <input type="checkbox"/> |
| B. Routine fueling, lubricating, and servicing | 35 | <input type="checkbox"/> |

| Actual Operation of Equipment | Training Hours Rqrd | Checklist |
|--------------------------------------|----------------------------|--------------------------|
| A. Safe operating procedures | 10 | <input type="checkbox"/> |
| B. Small hole drilling | 300 | <input type="checkbox"/> |
| C. Large hole drilling | 300 | <input type="checkbox"/> |
| D. Casing operation | 110 | <input type="checkbox"/> |
| E. General operating | 200 | <input type="checkbox"/> |

| | |
|--------------|--------------------|
| Total | 1,040 hours |
|--------------|--------------------|

Excavator / Trackhoe Operator

Duties

- Operates the excavator to dig, unload, move, and load earth, rock, and rubble
- May oil, grease, service, and make normal operating adjustments to equipment
- May perform other related duties

| Orientation and Observation | Training Hours Rqrd | Checklist |
|--|----------------------------|--------------------------|
| A. Safety procedures | 10 | <input type="checkbox"/> |
| B. Observation of machine in operation | 25 | <input type="checkbox"/> |
| C. Starting and manipulating levers for moving equipment and attachments | 25 | <input type="checkbox"/> |

| Care and Maintenance | Training Hours Rqrd | Checklist |
|--|----------------------------|--------------------------|
| A. Safety procedures | 10 | <input type="checkbox"/> |
| B. Routine fueling, lubricating, and servicing | 35 | <input type="checkbox"/> |

| Actual Operation of Equipment | Training Hours Rqrd | Checklist |
|--|----------------------------|--------------------------|
| A. Safe operating procedures | 10 | <input type="checkbox"/> |
| B. Excavation for footings and removal of unsuitable materials | 250 | <input type="checkbox"/> |
| C. Loading materials | 100 | <input type="checkbox"/> |
| D. Trenching for pipe, etc. | 165 | <input type="checkbox"/> |
| E. Placement of pipe, precast concrete structures, etc. | 90 | <input type="checkbox"/> |

| | | |
|--------------|------------------|--|
| Total | 720 hours | |
|--------------|------------------|--|

Front End Loader Operator

Duties

- Operates rubber tired or crawler type tractor with attached scoop type bucket on front end
- Excavates and loads excavating material, loads material from stockpiles, and loads trucks
- May oil, grease, service, and make normal operating adjustments to equipment
- May perform other related duties

| Orientation and Observation | Training Hours Rqrd | Checklist |
|--|----------------------------|--------------------------|
| A. Safety procedures | 10 | <input type="checkbox"/> |
| B. Observation of machine in operation | 20 | <input type="checkbox"/> |
| C. Starting and manipulating levers for moving equipment and attachments | 15 | <input type="checkbox"/> |

| Care and Maintenance | Training Hours Rqrd | Checklist |
|--|----------------------------|--------------------------|
| A. Safety procedures | 10 | <input type="checkbox"/> |
| B. Routine fueling, lubricating, and servicing | 35 | <input type="checkbox"/> |

| Actual Operation of Equipment | Training Hours Rqrd | Checklist |
|--------------------------------------|----------------------------|--------------------------|
| A. Safe operating procedures | 10 | <input type="checkbox"/> |
| B. Loading materials | 250 | <input type="checkbox"/> |
| C. Excavation | 170 | <input type="checkbox"/> |
| D. Special applications | 200 | <input type="checkbox"/> |

| | | |
|--------------|------------------|--|
| Total | 720 hours | |
|--------------|------------------|--|

Milling (Planing) Machine Operator

Duties

- Operates milling / planing machine to restore ride and texture to roadway surface and/or preparation for overlays
- Manipulates and makes adjustments by use of a control panel to regulate depth and alignment of pavement planning operation
- May oil, grease, service, and make normal operating adjustments to equipment
- May perform other related duties

| Orientation and Observation | Training Hours Rqrd | Checklist |
|---|----------------------------|--------------------------|
| A. Safety procedures | 5 | <input type="checkbox"/> |
| B. Observation of machine in operation | 35 | <input type="checkbox"/> |
| C. Begin operation and moving equipment | 30 | <input type="checkbox"/> |

| Care and Maintenance | Training Hours Rqrd | Checklist |
|-------------------------------------|----------------------------|--------------------------|
| A. Safety procedures | 5 | <input type="checkbox"/> |
| B. Routine maintenance and clearing | 150 | <input type="checkbox"/> |

| Actual Operation of Equipment | Training Hours Rqrd | Checklist |
|---|----------------------------|--------------------------|
| A. Safe operating procedures | 5 | <input type="checkbox"/> |
| B. Milling head operation and maintenance | 100 | <input type="checkbox"/> |
| C. General operation of machine | 650 | <input type="checkbox"/> |
| D. Milling to grade / profiling | 60 | <input type="checkbox"/> |

| | | |
|--------------|--------------------|--|
| Total | 1,040 hours | |
|--------------|--------------------|--|

Motor Grader Operator

Duties

- Operates self-propelled motor grader on rough work, such as finishing rough grade on highway, including highway shoulders, slopes, and ditches
- May oil, grease, service, and make normal operating adjustments to equipment
- May perform other related duties

| Orientation and Observation | Training Hours Rqrd | Checklist |
|--|----------------------------|--------------------------|
| A. Safety procedures | 5 | <input type="checkbox"/> |
| B. Observation (as a passenger) of machine in operation | 100 | <input type="checkbox"/> |
| C. Starting and manipulating levers for moving equipment and attachments | 95 | <input type="checkbox"/> |

| Care and Maintenance | Training Hours Rqrd | Checklist |
|--|----------------------------|--------------------------|
| A. Safety procedures | 5 | <input type="checkbox"/> |
| B. Routine fueling, lubricating, and servicing | 35 | <input type="checkbox"/> |

| Actual Operation of Equipment | Training Hours Rqrd | Checklist |
|--|----------------------------|--------------------------|
| A. Safe operating procedures | 5 | <input type="checkbox"/> |
| B. Scraping and leveling dirt on roadway | 180 | <input type="checkbox"/> |
| C. Spreading and mixing materials on roadway | 170 | <input type="checkbox"/> |
| D. Shaping and blading subgrades | 150 | <input type="checkbox"/> |
| E. Balancing and rough shaping base course materials | 150 | <input type="checkbox"/> |
| F. Grading and dressing of shoulders and slopes | 145 | <input type="checkbox"/> |

| | |
|--------------|--------------------|
| Total | 1,040 hours |
|--------------|--------------------|

Roller Operator – Dirt and Grade Compaction

Duties

- Operates self-propelled steel wheeled, rubber tired, sheep foot, vibratory, segmented, or other type roller to compact earth, subgrade, subbase, shoulder materials, or stone cover surface treatment
- May oil, grease, service, and make normal operating adjustments to equipment
- May perform other related duties

| Orientation and Observation | Training Hours Rqrd | Checklist |
|--|----------------------------|--------------------------|
| A. Safety procedures | 5 | <input type="checkbox"/> |
| B. Observation of machine in operation | 35 | <input type="checkbox"/> |

| Care and Maintenance | Training Hours Rqrd | Checklist |
|--|----------------------------|--------------------------|
| A. Safety procedures | 5 | <input type="checkbox"/> |
| B. Routine fueling, lubricating, and servicing | 35 | <input type="checkbox"/> |

| Actual Operation of Equipment | Training Hours Rqrd | Checklist |
|---|----------------------------|--------------------------|
| A. Safe operating procedures | 5 | <input type="checkbox"/> |
| B. Rolls base course to desired compaction and smoothness | 955 | <input type="checkbox"/> |

| | | |
|--------------|--------------------|--|
| Total | 1,040 hours | |
|--------------|--------------------|--|

Scraper (Earth Mover) Operator

Duties

- Operates self-propelled rubber tired or tractor drawn unit known as scraper, pan, etc., to excavate, transport, and deposit materials moved in normal grading operations
- May oil, grease, service, and make normal operating adjustments to equipment
- May perform other related duties

| Orientation and Observation | Training Hours Rqrd | Checklist |
|--|----------------------------|--------------------------|
| A. Safety procedures | 5 | <input type="checkbox"/> |
| B. Observation of machine in operation | 20 | <input type="checkbox"/> |
| C. Starting and manipulating levers for moving equipment and attachments | 15 | <input type="checkbox"/> |

| Care and Maintenance | Training Hours Rqrd | Checklist |
|--|----------------------------|--------------------------|
| A. Safety procedures | 5 | <input type="checkbox"/> |
| B. Routine fueling, lubricating, and servicing | 35 | <input type="checkbox"/> |

| Actual Operation of Equipment | Training Hours Rqrd | Checklist |
|--------------------------------------|----------------------------|--------------------------|
| A. Safe operating procedures | 5 | <input type="checkbox"/> |
| B. Loading | 150 | <input type="checkbox"/> |
| C. Spreading materials | 150 | <input type="checkbox"/> |
| D. Rough roadway grading | 70 | <input type="checkbox"/> |
| E. Compaction of embankment | 65 | <input type="checkbox"/> |
| Total | 520 hours | |

Shuttle Buggy / Transfer Machine Operator

Duties

- Learn safety procedures and receives training from experienced transfer operator
- Operates transfer machine to improve the ride and prevent segregation of asphalt during the lay-down process
- Operates transfer machine control panel for the intake amount of asphalt from the dump trucks to the mixing storage hopper of the machine
- Manipulates and makes adjustments by use of a control panel to regulate the amount of asphalt to the paving machine in correlation to paving speed
- May oil, grease, service, and make normal operating adjustments to equipment
- May perform other related duties

| Orientation and Observation | Training Hours Rqrd | Checklist |
|--|----------------------------|--------------------------|
| A. Safety procedures | 5 | <input type="checkbox"/> |
| B. Observation of machine in operation | 35 | <input type="checkbox"/> |
| C. Starting and manipulating levers for moving equipment and attachments | 30 | <input type="checkbox"/> |

| Care and Maintenance | Training Hours Rqrd | Checklist |
|--|----------------------------|--------------------------|
| A. Safety procedures | 5 | <input type="checkbox"/> |
| B. Routine fueling, lubricating, and servicing | 150 | <input type="checkbox"/> |

| Actual Operation of Equipment | Training Hours Rqrd | Checklist |
|---|----------------------------|--------------------------|
| A. Safe operating procedures | 5 | <input type="checkbox"/> |
| B. Screed regulation indoctrination & operation | 200 | <input type="checkbox"/> |
| C. Operation of machine | 290 | <input type="checkbox"/> |
| Total | 720 hours | |

*****The use of this classification must follow the process to conform it to CDOT's wage decision and will likely require a DOL Form 1444 to be completed and submitted to CDOT.*****

Truck Driver (Multi-Rear Axle)

Duties

- Drives multi-rear axle truck
- May have various kinds of beds attached
- May make normal operating adjustments to equipment
- May perform other related duties

| Orientation and Observation | Training Hours Rqrd | Checklist |
|---|----------------------------|--------------------------|
| A. Safety procedures | 15 | <input type="checkbox"/> |
| B. Observation (as a passenger) of machine in operation | 35 | <input type="checkbox"/> |
| C. Starting and manipulating vehicle | 40 | <input type="checkbox"/> |

| Care and Maintenance | Training Hours Rqrd | Checklist |
|--|----------------------------|--------------------------|
| A. Safety procedures | 15 | <input type="checkbox"/> |
| B. Routine fueling, lubricating, and servicing | 340 | <input type="checkbox"/> |

| Actual Operation of Equipment | Training Hours Rqrd | Checklist |
|---|----------------------------|--------------------------|
| A. Safe operating procedures | 15 | <input type="checkbox"/> |
| B. Loading and unloading materials and operation of vehicle | 580 | <input type="checkbox"/> |
| Total | 1,040 hours | |

Modules within the Structures Craft Area

Form Setter

Duties

- Fits together, aligns, and set to grade metal and wooden forms for holding concrete in place until it hardens
- May use hammer, saw, square, level, and such fastening devices as may be required
- May perform other related duties

| Orientation and Observation | Training Hours Rqrd | Checklist |
|--|----------------------------|--------------------------|
| A. Safety procedures | 5 | <input type="checkbox"/> |
| B. Observation of placing of forms | 20 | <input type="checkbox"/> |
| C. Observing of form stripping and setting of precast concrete | 20 | <input type="checkbox"/> |

| Care and Maintenance | Training Hours Rqrd | Checklist |
|---|----------------------------|--------------------------|
| A. Safety procedures | 5 | <input type="checkbox"/> |
| B. Help strip forms and clean work area | 20 | <input type="checkbox"/> |

| Actual Work Activities | Training Hours Rqrd | Checklist |
|--|----------------------------|--------------------------|
| A. Safe operating procedures | 5 | <input type="checkbox"/> |
| B. Hold and help align forms, drive stakes for braces, and help erect scaffolding | 200 | <input type="checkbox"/> |
| C. Observe and assist in setting precast concrete | 145 | <input type="checkbox"/> |
| D. Measure space between forms, fits together, lines, plumbs vertically, sets to elevation | 200 | <input type="checkbox"/> |
| E. Check forms while concrete is being poured. | 100 | <input type="checkbox"/> |

| | |
|--------------|------------------|
| Total | 720 hours |
|--------------|------------------|

*****If an employee is working toward the craft graduation of structures and choosing to utilize the form setter and form builder classifications, the form setter must precede form builder in OJT work. *****

Form Builder

Duties

- Constructs built-in place or prefabricated forms according to specifications, for molding concrete structures
- Studies blueprints and diagrams to determine type and dimension of forms to be constructed
- Erects forms on the construction site according to specifications
- Inserts spreaders and tie rods between opposite faces of forms to maintain specified dimensions
- May work with power tools
- May perform other related duties

Orientation and Observation

Training Hours Rqrd

Checklist

| | | |
|-------------------------|----|--------------------------|
| A. Safety procedures | 5 | <input type="checkbox"/> |
| B. Power and hand tools | 15 | <input type="checkbox"/> |
| C. Material selection | 20 | <input type="checkbox"/> |

Applied Techniques of Highway Construction Carpentry

Training Hours Rqrd

Checklist

| | | |
|---|-----|--------------------------|
| A. Safe operating procedures | 5 | <input type="checkbox"/> |
| B. Pier, pile, and cap framework | 100 | <input type="checkbox"/> |
| C. Decking framework | 150 | <input type="checkbox"/> |
| D. Parapet and hand railing framework | 150 | <input type="checkbox"/> |
| E. Endwall framework | 150 | <input type="checkbox"/> |
| F. Box culverts, inlets, and headwall framework | 150 | <input type="checkbox"/> |
| G. Blueprint plans reading & application | 95 | <input type="checkbox"/> |
| H. Basic form design familiarity | 100 | <input type="checkbox"/> |
| I. Stripping and salvage of forms, re-use | 100 | <input type="checkbox"/> |

Total

1,040 hours

Ironworkers (Reinforcing)

Duties

- Reads plans
- Places and ties reinforcing steel in forms
- Sets rods in place, spaces and wires reinforcing rods
- May perform other related duties

| Orientation and Observation | Training Hours Rqrd | Checklist |
|------------------------------------|----------------------------|------------------|
|------------------------------------|----------------------------|------------------|

- | | | |
|-----------------------------|----|---|
| A. Safety procedures | 5 | □ |
| B. Observation of operation | 15 | □ |

| Specific Job Skills | Training Hours Rqrd | Checklist |
|----------------------------|----------------------------|------------------|
|----------------------------|----------------------------|------------------|

- | | | |
|----------------------------|----|---|
| A. Layout and plan reading | 35 | □ |
|----------------------------|----|---|

| Actual Operation of Reinforcing | Training Hours Rqrd | Checklist |
|--|----------------------------|------------------|
|--|----------------------------|------------------|

- | | | |
|--------------------------------------|-----|---|
| A. Places reinforcing steel in form | 100 | □ |
| B. Ties reinforcing steel in form | 250 | □ |
| C. Sets rods in place | 90 | □ |
| D. Spaces and wires reinforcing rods | 225 | □ |

| | | |
|--------------|------------------|--|
| Total | 720 hours | |
|--------------|------------------|--|

Modules within the Concrete Craft Area

Concrete Finisher

Duties

- Finishes wet surfaces to grade with hand tools, float, trowel, screed, template, and straight edge on all types of concrete work requiring a fine finish
- May perform other related duties

| Orientation and Observation | Training Hours Rqrd | Checklist |
|--|----------------------------|--------------------------|
| A. Safety procedures | 5 | <input type="checkbox"/> |
| B. Observation of use of straight edges, floats, and steel trowels | 25 | <input type="checkbox"/> |
| C. Observation of forming a finishing of edges and joints | 25 | <input type="checkbox"/> |
| D. Observation of use of concrete finishing machine | 15 | <input type="checkbox"/> |

| Care and Maintenance | Training Hours Rqrd | Checklist |
|--|----------------------------|--------------------------|
| A. Safety procedures | 5 | <input type="checkbox"/> |
| B. Routine cleaning work area and materials, holding materials, tools and handling canvas belting or burlap straps | 195 | <input type="checkbox"/> |
| C. Routine fueling, lubricating, and servicing | 50 | <input type="checkbox"/> |

| Actual Operation of Equipment | Training Hours Rqrd | Checklist |
|--|----------------------------|--------------------------|
| A. Safe operating procedures | 10 | <input type="checkbox"/> |
| B. Basic operation of tools | 200 | <input type="checkbox"/> |
| C. Forming and finishing edges, joints, curbs, gutters, paving, and structures | 310 | <input type="checkbox"/> |
| D. Operation of trowels, straight edges, floats, or finishing machine | 200 | <input type="checkbox"/> |

| | |
|--------------|--------------------|
| Total | 1,040 hours |
|--------------|--------------------|

Concrete Paver Operator

Duties

- Operates paving machine
- Charges, mixes, and discharges concrete
- Apportions water and times mixing cycle
- May oil, grease, service, and make normal operating adjustments to equipment
- May perform other related duties

| Orientation and Observation | Training Hours Rqrd | Checklist |
|--|----------------------------|--------------------------|
| A. Safety procedures | 10 | <input type="checkbox"/> |
| B. Observation of machine in operation | 35 | <input type="checkbox"/> |
| C. Starting and manipulating levers for moving equipment and attachments | 30 | <input type="checkbox"/> |

| Care and Maintenance | Training Hours Rqrd | Checklist |
|--|----------------------------|--------------------------|
| A. Safety procedures | 10 | <input type="checkbox"/> |
| B. Routine fueling, lubricating, and servicing | 35 | <input type="checkbox"/> |

| Actual Operation of Equipment | Training Hours Rqrd | Checklist |
|---|----------------------------|--------------------------|
| A. Safe operating procedures | 10 | <input type="checkbox"/> |
| B. Regulate equipment to mix and discharge concrete, apportion water and time mixer cycle | 120 | <input type="checkbox"/> |
| C. Operation of machine | 790 | <input type="checkbox"/> |

| | |
|--------------|--------------------|
| Total | 1,040 hours |
|--------------|--------------------|

*****The use of this classification must follow the process to conform it to CDOT's wage decision and will likely require a DOL Form 1444 to be completed and submitted to CDOT.*****

Concrete Finishing Machine Operator

Duties

- Operates machine running on forms, spreads strikes off, and screeds to correct elevation
- May oil, grease, and make normal operation adjustments to machine
- May perform other related duties

| Orientation and Observation | Training Hours Rqrd | Checklist |
|--|----------------------------|--------------------------|
| A. Safety procedures | 10 | <input type="checkbox"/> |
| B. Observation (as a passenger) of machine in operation | 30 | <input type="checkbox"/> |
| C. Starting and manipulating controls for moving equipment and attachments | 30 | <input type="checkbox"/> |

| Care and Maintenance | Training Hours Rqrd | Checklist |
|--|----------------------------|--------------------------|
| A. Safety procedures | 5 | <input type="checkbox"/> |
| B. Routine fueling, lubricating, and servicing | 150 | <input type="checkbox"/> |

| Actual Operation of Equipment | Training Hours Rqrd | Checklist |
|---|----------------------------|--------------------------|
| A. Safe operating procedures | 5 | <input type="checkbox"/> |
| B. Screed regulation indoctrination and operation and operation | 120 | <input type="checkbox"/> |
| C. Operation of machine | 690 | <input type="checkbox"/> |
| Total | 1,040 hours | |

*****The use of this classification must follow the process to conform it to CDOT's wage decision and will likely require a DOL Form 1444 to be completed and submitted to CDOT.*****

Concrete Paving Joint Machine Operator

Duties

- Operates a machine which cuts grooves for expansion and contraction joints in freshly poured concrete pavement
- When cutting expansion joints, places strips of material such as cork, asphalt, or steel in joints, or places roll of expansion-joint material on machine that automatically inserts material into joints
- May oil, grease, and make normal operation adjustments to machine
- May perform other related duties

| Orientation and Observation | Training Hours Rqrd | Checklist |
|---|----------------------------|--------------------------|
| A. Safety procedures | 10 | <input type="checkbox"/> |
| B. Observation of machine in operation | 20 | <input type="checkbox"/> |
| C. Starting, stopping, and manipulating levers for moving equipment and attachments | 15 | <input type="checkbox"/> |

| Care and Maintenance | Training Hours Rqrd | Checklist |
|--|----------------------------|--------------------------|
| A. Safety procedures | 5 | <input type="checkbox"/> |
| B. Routine fueling, lubricating, and servicing | 30 | <input type="checkbox"/> |

| Actual Operation of Equipment | Training Hours Rqrd | Checklist |
|---|----------------------------|--------------------------|
| A. Safe operating procedures | 5 | <input type="checkbox"/> |
| B. Cutting grooves for expansion and contraction joints | 600 | <input type="checkbox"/> |
| C. Depressing aggregate at joint | 35 | <input type="checkbox"/> |
| Total | 720 hours | |

*****The use of this classification must follow the process to conform it to CDOT's wage decision and will likely require a DOL Form 1444 to be completed and submitted to CDOT.*****

Concrete Paving Spreader Operator

Duties

- Operates a self-propelled machine that rides on the paving forms behind concrete pavers
- Operates controls to spread fresh concrete evenly over subgrade or in concrete forms
- Points out low spots in freshly poured concrete so that more concrete can be dumped in that spot
- May oil, grease, and make normal operation adjustments to machine
- May perform other related duties

| Orientation and Observation | Training Hours Rqrd | Checklist |
|--|----------------------------|--------------------------|
| A. Safety procedures | 10 | <input type="checkbox"/> |
| B. Observation of machine in operation | 30 | <input type="checkbox"/> |
| C. Starting and manipulating levers for moving equipment and attachments | 30 | <input type="checkbox"/> |

| Care and Maintenance | Training Hours Rqrd | Checklist |
|--|----------------------------|--------------------------|
| A. Safety procedures | 5 | <input type="checkbox"/> |
| B. Routine fueling, lubricating, and servicing | 150 | <input type="checkbox"/> |

| Actual Operation of Equipment | Training Hours Rqrd | Checklist |
|---|----------------------------|--------------------------|
| A. Safe operating procedures | 5 | <input type="checkbox"/> |
| B. Regulation, indoctrination and operation | 120 | <input type="checkbox"/> |
| C. Operation of machine | 690 | <input type="checkbox"/> |
| Total | 1,040 hours | |

*****The use of this classification must follow the process to conform it to CDOT's wage decision and will likely require a DOL Form 1444 to be completed and submitted to CDOT.*****

Other Single Modules

Asphalt Raker

Duties

- Distributes asphaltic materials by raking
- Matches and finishes freshly made asphalt paving joints evenly
- Smoothes and adjusts surface irregularities
- Restores surface finish after hand raking
- Spreads asphalt to proper grade and finish before compaction
- May perform other related duties

| Orientation and Observation | Training Hours Rqrd | Checklist |
|------------------------------------|----------------------------|------------------|
|------------------------------------|----------------------------|------------------|

- | | | |
|-----------------------------|----|--------------------------|
| A. Safety procedures | 5 | <input type="checkbox"/> |
| B. Observation of operation | 25 | <input type="checkbox"/> |

| Care and Maintenance | Training Hours Rqrd | Checklist |
|-----------------------------|----------------------------|------------------|
|-----------------------------|----------------------------|------------------|

- | | | |
|----------------------|----|--------------------------|
| A. Safety procedures | 10 | <input type="checkbox"/> |
| B. Hand Tools | 20 | <input type="checkbox"/> |

| Actual Operation of Equipment | Training Hours Rqrd | Checklist |
|--------------------------------------|----------------------------|------------------|
|--------------------------------------|----------------------------|------------------|

- | | | |
|---|-----|--------------------------|
| A. Matches and finishes freshly made asphalt paving joint evenly | 80 | <input type="checkbox"/> |
| B. Smoothes and adjusts surface irregularities | 140 | <input type="checkbox"/> |
| C. Restores surface finish after hand raking | 100 | <input type="checkbox"/> |
| D. Spreads asphalt to proper grade and finishes before compaction | 140 | <input type="checkbox"/> |

| | |
|--------------|------------------|
| Total | 520 hours |
|--------------|------------------|

****A company can have multiple rakers, but only one will count toward the OJT goal per project.**

(Hand Held) Concrete Saw Operator

Duties

- Operates a water-cooled power saw with either a diamond blade or an abrasive blade to saw expansion and contraction joints in concrete paving
- May also be used to saw asphaltic pavements
- May oil, grease, or otherwise service and make necessary adjustments to equipment as needed
- May perform other related duties

| Orientation and Observation | Training Hours Rqrd | Checklist |
|--|----------------------------|--------------------------|
| A. Safety procedures | 10 | <input type="checkbox"/> |
| B. Observation of work of concrete paving saw operator | 50 | <input type="checkbox"/> |
| C. Assist concrete paving saw operator | 10 | <input type="checkbox"/> |

| Care and Maintenance | Training Hours Rqrd | Checklist |
|--|----------------------------|--------------------------|
| A. Safety procedures | 5 | <input type="checkbox"/> |
| B. Routine fueling, lubricating, and servicing | 35 | <input type="checkbox"/> |

| Actual Operation of Equipment | Training Hours Rqrd | Checklist |
|--|----------------------------|--------------------------|
| A. Safe operating procedures | 15 | <input type="checkbox"/> |
| B. Saw expansion and contraction joints in concrete paving | 710 | <input type="checkbox"/> |
| C. Saw asphaltic pavements | 205 | <input type="checkbox"/> |

| | |
|--------------|--------------------|
| Total | 1,040 hours |
|--------------|--------------------|

Grade Checker

Duties

- Positions batter boards or pins to indicate direction of cut
- Hammers batter board pins into ground at designated intervals
- Tests contour of road subgrade to determine uniformity of contour
- Shovels dirt from high areas and tamps it into low areas to obtain uniform contour
- May signal operator of grading machine to correct discrepancies

| Orientation and Observation | Training Hours Rqrd | Checklist |
|---|----------------------------|--------------------------|
| A. Safety procedures | 5 | <input type="checkbox"/> |
| B. Observation of placing grade pins and line | 20 | <input type="checkbox"/> |
| C. Observation of setting and checking grade | 20 | <input type="checkbox"/> |

| Care and Maintenance | Training Hours Rqrd | Checklist |
|-------------------------------------|----------------------------|--------------------------|
| A. Safety procedures | 5 | <input type="checkbox"/> |
| B. Helping set grade pins and lines | 25 | <input type="checkbox"/> |

| Actual Operation of Equipment | Training Hours Rqrd | Checklist |
|--|----------------------------|--------------------------|
| A. Safe operating procedures | 5 | <input type="checkbox"/> |
| B. Observe and assist in setting grade | 200 | <input type="checkbox"/> |
| C. Setting and driving pins and braces in place | 100 | <input type="checkbox"/> |
| D. Check grade and lines before and after grading operations | 140 | <input type="checkbox"/> |

| | |
|--------------|------------------|
| Total | 520 hours |
|--------------|------------------|

Painter

Duties

- Paints guard rail, fence, sign post, sign, or structural steel framework of bridges and other portions of structures requiring painting using brush, roller, or spray
- May oil, grease, and make normal operating adjustments to machine
- May perform other related duties

| Orientation and Observation | Training Hours Rqrd | Checklist |
|------------------------------------|----------------------------|------------------|
|------------------------------------|----------------------------|------------------|

- | | | |
|-----------------------------|----|---|
| A. Safety procedures | 10 | □ |
| B. Observation of operation | 15 | □ |

| Care and Maintenance | Training Hours Rqrd | Checklist |
|-----------------------------|----------------------------|------------------|
|-----------------------------|----------------------------|------------------|

- | | | |
|----------------------------------|----|---|
| A. Safety procedures | 5 | □ |
| B. Care and maintenance of tools | 10 | □ |

| Actual Painting Operation | Training Hours Rqrd | Checklist |
|----------------------------------|----------------------------|------------------|
|----------------------------------|----------------------------|------------------|

- | | | |
|---|-----|---|
| A. Paints guard rails, fence, sign posts, etc., with brush, roller, or sprays or paints cables and structural steel framework of bridges and other portions of structures requiring painting using brush, roller, or spray. | 480 | □ |
|---|-----|---|

| | |
|--------------|------------------|
| Total | 520 hours |
|--------------|------------------|

*****Painter spray only – corresponds to the classification on the wage determination for painter (spray only). If a brush or roller is used, a wage conformance will be required.*****

QC Technician - Roadway

Duties

- Operates density gauge to monitor compaction and laydown of asphalt
- Operates coring rig in cutting core samples of asphalt for comparison against lab densities
- Completes necessary paperwork for Contractor and CDOT requirements
- May perform other related duties

| Orientation and Observation | Training Hours | Rqrd Checklist |
|---|-----------------------|--------------------------|
| A. Safety procedures | 20 | <input type="checkbox"/> |
| B. Observation of density gauge and coring rig in operation | 70 | <input type="checkbox"/> |

| Care and Maintenance | Training Hours | Rqrd Checklist |
|------------------------------------|-----------------------|--------------------------|
| A. Care of density gauge | 50 | <input type="checkbox"/> |
| B. Care of coring rig | 50 | <input type="checkbox"/> |
| C. Care of other related equipment | 50 | <input type="checkbox"/> |

| Actual Record Keeping | Training Hours | Rqrd Checklist |
|--|-----------------------|--------------------------|
| A. Safety procedures in operating density gauge | 15 | <input type="checkbox"/> |
| B. Paperwork required when operating density gauge | 15 | <input type="checkbox"/> |
| C. Paperwork (DOT required) | 250 | <input type="checkbox"/> |
| D. Proper filing and record keeping | 50 | <input type="checkbox"/> |

| Basic Job Duties | Training Hours | Rqrd Checklist |
|---|-----------------------|--------------------------|
| A. Attends class and receives certification in operating density gauge as required by CDOT | 20 | <input type="checkbox"/> |
| B. Safety procedures in operating and maintaining density gauge | 50 | <input type="checkbox"/> |
| C. Operating and monitoring density gauge | 150 | <input type="checkbox"/> |
| D. Operating coring rig; cutting cores for lab testing | 100 | <input type="checkbox"/> |
| E. Maintains proper care for handling cut cores during transportation to lab for testing of compaction, density, etc. | 150 | <input type="checkbox"/> |
| Total | 1,040 hours | |

Traffic Control Supervisor

Duties

- Controls flow of traffic around construction site
- Maintains necessary supplies
- Oversees the proper erection, placement, removal, and storage of traffic control materials
- Ensures that flaggers are properly trained and placed
- May perform other related duties

| Orientation and Observation | Training Hours Rqrd | Checklist |
|--|----------------------------|--------------------------|
| A. Safety procedures | 10 | <input type="checkbox"/> |
| B. Learn and fully understand the basic functions and requirements of the position | 20 | <input type="checkbox"/> |
| C. Becomes familiar with applicable regulations and/or policies | 20 | <input type="checkbox"/> |

| Applied Techniques | Training Hours Rqrd | Checklist |
|---|----------------------------|--------------------------|
| A. Develops and maintains suitable liaison with project superintendent and project engineer. Develops and maintains ways and means of controlling traffic on a daily basis. | 150 | <input type="checkbox"/> |
| B. Confirms that adequate signs, barrels, cones, staff, etc. are on hand to meet needs for the construction activities | 20 | <input type="checkbox"/> |
| C. Ensures proper erection and placement as well removal of required traffic control materials on a daily basis. Verifies that flag personnel are properly trained and placed on the job where they will be most effective and performing properly. | 300 | <input type="checkbox"/> |
| D. Maintains and manages any changes which come about during the day and takes necessary steps to affect suitable control procedures. | 200 | <input type="checkbox"/> |
| E. Drafts methods of handling traffic (MHT) for the specific work requirement working alongside the TCS for their approval. | 130 | <input type="checkbox"/> |

| | |
|--------------|------------------|
| Total | 850 hours |
|--------------|------------------|