

Kansas Department of Transportation

STANDARD JOB CLASSIFICATIONS AND DESCRIPTIONS

ASPHALT PAVER SCREED OPERATOR (Power Equipment Operator)

Makes sure paver is in proper position before moving off the joint. Controls the screed to ensure proper thickness of asphalt to meet specification, and makes sure there is always the proper amount of asphalt in front of the screed; maintains widening or narrowing of the screed to meet proper widths; and places crown in screed when needed. Controls electronic joint matchers, slope controls and skis in order to place asphalt at proper thickness and elevations. May perform other related duties.

ASPHALT PAVING MACHINE OPERATOR (Power Equipment Operator)

Operates machine that spreads and levels hot-mix bituminous paving material on a prepared surface. Bolts extensions to screed to adjust width, using wrenches; lights burners to heat screed; starts engine and controls paving machine to push dump truck and maintain constant flow of asphalt into hopper. Observes distribution of paving material along screed and controls direction of screed. May service machine and perform other related duties.

ASPHALT PLANT OPERATOR (Power Equipment Operator)

Operates hot-mix asphalt plant. Runs the control room to produce the proper quantities of mix that conforms to customer specifications. Coordinates loading from plant or silos. Creates scale ticket/invoice for driver. Coordinates loader activities to ensure adequate supplies of aggregate. Prepares all necessary reports for proper control and accounting. May perform plant maintenance and all other duties related to the operation of the plant. Coordinates the storage of binder material to keep from comingling different grades.

ASPHALT RAKER (Laborer)

Distributes plant mix asphaltic road building materials evenly over a road surface by raking asphalt to a smoothness, thickness and appearance required by project specification. Directs construction laborers when to add or take away material to fill low spots or to reduce high spots. May perform other related duties.

AUTOGRADER OPERATOR (Power Equipment Operator)

Operates a power driven automated machine capable of finegrading or cutting line and grade. May oil, grease or otherwise service and make necessary adjustments to equipment as needed. May perform other related duties.

BACKHOE OPERATOR (Power Equipment Operator)

Operates a rubber tired or crawler tractor with power driven backhoe and/or front-end loader attachment. Operation includes transportation of the tractor and use of all attachments as required. May oil, grease or otherwise service and make necessary adjustments to equipment as needed. May perform other related duties.

BATCHING PLANT SCALE OPERATOR (Power Equipment Operator)

Operates a stationary or portable batching scale that weighs out material. Adjusts scales for required weights of material. Operates controls that admit materials separately from storage hoppers to weigh bins. Observes scales or indicators that show when proper amounts of materials have been made. Discharges materials from weighing bin into truck or other carrier or mixer. May measure material by volume instead of weight. May perform other related duties.

BLOWER MULCHER SEEDER OPERATOR (Power Equipment Operator)

Operates power unit and blower mechanism required for blowing materials in mulching and/or seeding operations. May oil, grease or otherwise service and make necessary adjustments to equipment as needed. May perform other related duties.

BORING MACHINE OR DIRECTIONAL DRILL OPERATOR (Power Equipment Operator)

Sets up and operates boring and drilling equipment which bores holes through dirt, concrete or rock, either vertically or horizontally. Generally used in boring for foundation work and under highways or streets, railroad tracks, etc. Levels machine, inserts and fastens drill tubing and augers. May oil, grease or otherwise service and make necessary adjustments to equipment as needed. May perform other related duties.

BRICK, BLOCK AND STONESETTER

This work consists of laying brick, block or stone. May apply coating of some nature to interior or exterior surfaces. May perform other related duties.

BULLDOZER OPERATOR (Power Equipment Operator)

Operates a large tractor mounted on track or rubber tires, with a blade mounted in front of the chassis to level, distribute and push dirt or other materials. Also used as pusher in loading earth-moving equipment. Also used to fill holes, excavations, trenches, etc. May oil, grease or otherwise service and make necessary adjustments to equipment as needed. May perform other related duties.

CARPENTER

Works with blue prints and builds forms in place or in units to be erected later. Builds and/or erects forms to mold concrete structures. Performs a wide variety of duties classed as carpentry work. May perform other related duties.

CARPENTER-ROUGH

Handles materials and supplies. Keeps the work area clean. Builds and/or erects forms to mold concrete structures under the direction of a carpenter or a supervisor. May perform other related duties.

CONCRETE CENTRAL MIX PLANT OPERATOR (Power Equipment Operator)

Operates a central mix concrete plant. Insures that the proper supplies of raw materials are available. May adjust scales for required weight of material, may weigh out correct amounts of material, may charge materials into mixer and discharge mixed concrete into trucks or other carriers. May oil, grease, or otherwise service and make necessary adjustments to equipment as needed. May perform other related duties.

CONCRETE FINISHER – CEMENT MASON

Levels concrete surfaces to the desired grade and contour by use of trowels and floats and by pushing and pulling screed or template over the surface, and smoothes with a float or straightedge. May form and finish edges and joints. Must be able to expertly final finish surfaces. May do finish work on concrete curbs and gutter. May perform other related duties.

CONCRETE FINISHING MACHINE OPERATOR (Power Equipment Operator)

Operates a variety of power equipment involved with the placing, striking off of bridge decks and concrete pavement and curing of concrete pavement, including slipform paver operations, curbs, gutters, sidewalks and median barriers. May oil, grease, clean or otherwise service and make necessary adjustments to the equipment as needed. May perform other related duties.

CONCRETE PUMP TRUCK OPERATOR (Power Equipment Operator)

Operates a concrete pumping machine that pumps fresh concrete from mixer to forms that mold fresh concrete. Sets up the pump. Operates power unit of pump and signals concrete mixer operator to allow fresh concrete to flow into hopper of pump. May oil, grease or otherwise service and make necessary adjustments to equipment as needed. May perform other related duties.

CONCRETE SAW OPERATOR (Power Equipment Operator)

Operates a self-propelled machine that travels on paving forms or concrete slabs and saws relief joints in the concrete. May oil, grease or otherwise service and make necessary adjustments as needed. May perform other related duties.

CRANE OPERATOR (Power Equipment Operator)

Operates boom type equipment, either rubber tired or track type, which, with various attachments or buckets can become a crane, dragline, clamshell, shovel, etc. May hoist and move material, excavate, pour concrete, set steel or other miscellaneous tasks for which this type of equipment is designed and required. May oil, grease or otherwise service and make necessary adjustments to equipment as needed. May perform other related duties.

CRUSHER & SCREENING PLANT OPERATOR (Power Equipment Operator)

Operates controls on primary or other crusher to control the feed rate of material. May direct trucks or rock haulers into the dumping position and direct them when to dump their loads. Controls flow of material through a screening and/or washing plant to screen or wash out material not needed. Operates the crusher as a single machine or in a train for cold recycle asphaltic mixtures. May oil, grease, or otherwise service and make necessary adjustments to equipment as required. May perform other related duties.

DISTRIBUTOR OPERATOR–BITUMINOUS (Power Equipment Operator)

Drives and operates truck equipped with tank to spray asphalt cement or bituminous emulsions on road surfaces. Connects hose from storage tank to truck tank and moves lever to fill pressure tank with bituminous liquid; regulates burner to heat liquid; start auxiliary pump. Drives truck at constant speed to obtain uniform distribution of oil. Uses calibration stick to monitor daily quantities for proper application. May perform other related duties.

DRILL RIG OPERATOR (Power Equipment Operator)

Sets up and operates drill rig. May oil, grease or otherwise service and make necessary adjustments to equipment as needed. May perform other related tasks as required.

DRILL RIG OPERATOR-DRILLED SHAFTS (Power Equipment Operator)

Sets up and operates drill rig. May oil, grease or otherwise service and make necessary adjustments to equipment as needed. May perform other related tasks as required.

ELECTRICIAN

Plans and executes the layout of electrical conduit, installs wiring systems, switch-panels, works on overhead and/or underground distribution systems. May perform other related duties.

EROSION CONTROL SPECIALIST

Responsibilities include review of the SWPPP plan, installation and maintenance of erosion control devices, documentation, seeding, fertilizing, and mulching. Equipment used tractor, skid steer, mini-excavator, hand level, and hand tools.

EXCAVATOR OPERATOR (Power Equipment Operator)

Operates a crawler or rubber tired excavator with attachments. May oil, grease, or otherwise service and make necessary adjustments as needed. May perform other related tasks as required.

FLAGGER (Laborer)

Controls movement of vehicular traffic through construction projects. Distributes traffic control signs and markers along site in designated pattern. Directs movement of traffic through site, using sign, hand and flag signals.

FORM LINER AND SETTER

Fits together, aligns and sets to grade metal forms for holding concrete pavement in place until it hardens. May drive pin to hold forms in position. May perform other related duties.

FRONT END LOADER OPERATOR (Power Equipment Operator)

Operates straight or articulated rubber-tired, tractor-type vehicle equipped with front-mounted, hydraulically powered bucket or scoop to lift and transport bulk materials to and from storage or processing areas to feed conveyors, hoppers or chutes, and to load trucks or railcars. Performs routine maintenance and other related duties.

GROUNDMAN-TRAFFIC SIGNALS & LIGHTING (Traffic Signalization)

Assist lineman / lineman operator.

HEATER PAVER (Power Equipment Operator)

Operates machines that heat, scarify, mix rejuvenating agents and deposit in-place the asphalt pavement surface material. Observes and controls the temperature, depth, additive rate and placement of the paving material back on the existing roadbed. May service machine and perform other related duties.

IRONWORKER - REINFORCING STEEL SETTER-STRUCTURES

Works with blueprints and performs layout work and proper placing of reinforcing steel in accordance with plans and specifications. May perform other related duties.

IRONWORKER - STEEL WORKER-STRUCTURAL

Works as a member of a group that places and attaches fabricated structural steel members, such as girders, plates, columns, diaphragms and unites them permanently to form a complete structural steel framework. May perform other related duties.

HYDRO-DEMOLITION OPERATOR (Power Equipment Operator)

Operates hydro-demolition equipment. May oil, grease, or otherwise service and make necessary adjustments to equipment as needed. May perform other related tasks as required.

LABORER- COMMON OR GENERAL (Laborer)

A general term used in construction work to describe a construction laborer. Loads, unloads, transports and stockpiles material, forms, and equipment. Works with all crews performing work, including hand/power/airtool work; nailing; shoveling; placing; striking off and rough float finishing concrete; assisting in placing reinforcing steel and/or wire mesh; fastening reinforcing rods and/or wire mesh in place with fasteners; may lay or assist in laying various types of pipe to convey different media such as storm drains, sewers, water lines, product lines, and masonry tender; may strip and clean concrete forms and do all other general construction labor.

LINEMAN-TRAFFIC SIGNALS & LIGHTING (Traffic Signalization)

Installs, maintains and repairs telephone, telegraph and electrical power lines between various installations. Directs workers in setting poles, climbing poles and installing hardware, lightning arrestors, communication cables, electrical power cables and auxiliary equipment, either above or below ground. Makes cable splices and runs service connections. Installs fiber optic lines and conventional lines for traffic signal and other similar type installations. May perform other related duties.

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MATERIAL TRANSFER VEHICLE OPERATOR (Power Equipment Operator)

Operates a material transfer vehicle, which receives materials from delivery trucks then returns to the paver and transfers materials to the paver. Coordinates unloading trucks, quality of materials in the machine's hopper, and speed of MTV to match paving machine. Adjusts hydraulic flow gates for an even flow. May oil, grease, or otherwise service and make necessary adjustments to equipment as needed. May perform other related duties.

MECHANIC (Power Equipment Operator)

Analyzes malfunctions and repairs, rebuilds and maintains construction equipment. Operates and inspects machines or equipment to diagnose defects; dismantles and reassembles equipment; examines parts for damage or excessive wear; replaces defective engines and subassemblies. Performs the duties of welder in repair and modification of equipment. May perform other related duties.

MIXER OPERATOR-CONCRETE PORTABLE (Power Equipment Operator)

Operates a portable concrete mixing machine. Starts power unit and oversees the loading of material into the skip and manipulates levers that control feeding of materials into the mixing drum. Starts drum rotating to mix materials. Manipulates lever to discharge concrete from drum. Rinses drum with water to remove adhered concrete. May oil, grease or otherwise service and make necessary adjustments to equipment as needed. May perform other related duties.

MOTOR GRADER OPERATOR-FINISH (Power Equipment Operator)

Operates self-propelled grader to spread and level dirt, gravel, stone and other materials to finish grade specifications in construction and maintenance of earthwork structures, such as highways, streets, airports, dikes and temporary roads. Drives grader and moves levers to regulate height and angle of grader blade, lower scarifier that loosens packed soil to permit grading. May oil, grease or otherwise service and make necessary adjustments to equipment as needed. May perform other related duties.

MOTOR GRADER OPERATOR-ROUGH (Power Equipment Operator)

Operates self-propelled grader to spread and level dirt, gravel, stone and other materials to rough grade specifications in construction and maintenance of earthwork structures, such as highways, streets, airports, dikes and temporary roads. Drives grader and moves levers to regulate height and angle of grader blade, lower scarifier that loosens packed soil to permit grading. May oil, grease or otherwise service and make necessary adjustments to equipment as needed. May perform other related duties.

MOTOR SCRAPER OPERATOR (Power Equipment Operator)

Operates a rubber tired or tracked, motor scraper that scrapes up material, usually dirt, and transports it to a designated place. May oil, grease or otherwise service and make necessary adjustments to the equipment as needed. May perform other related duties.

PAINTER - STRUCTURAL STEEL & BRIDGE

Paints structures. Mixes paint and applies and cleans equipment after use. May scrape or otherwise repair surfaces prior to painting. May rig scaffolding. May perform other related duties.

PAVEMENT BREAKER OPERATOR-SELF PROPELLED (Power Equipment Operator)

Operates a self-propelled machine with a heavy hammer, tamper or vibrating foot mounted on it which raises and is dropped or intense pressure is applied to a vibrating foot. May be cable, hydraulic or pneumatic operated. May oil, grease or otherwise service and make necessary adjustments to the equipment as needed. May perform other related duties.

PAVEMENT MARKING LABORER

Assists with pavement marking operations of roadway, highways, streets and other types of paving. Including layout, handling and installation of pavement marking paint, tape or other required materials. Installation of temporary and permanent pavement markers may include use of primer carts, tamping carts, walk behind grinders and truck mounted attenuators associated with layout, surface preparation, installation and removal of pavement markings and pavement markers. Directs movement of traffic using sign, hand and flag signal necessary for pavement marking operation.

PAVEMENT MARKING TRUCK OPERATOR (Power Equipment Operator)

Operates a truck or a power machine used in striping on roadways, highways, streets and other types of paving. Loads machine with material and may walk or ride machine. Adjusts and guides machine. Cleans painting apparatus when needed. May oil, clean or otherwise make adjustments to equipment as needed. May perform other related duties.

POST DRIVER/AUGER OPERATOR (Power Equipment Operator)

Operates a tractor or truck mounted machine which by means of an auger or hammer drills holes or drives posts for steel guardrail. May oil, grease or otherwise service and make adjustments to the equipment as needed. May perform other related duties.

POWDERMAN

Places explosives in such a way that they will accomplish the purpose for which they are intended. Supervises or does the loading and wiring. Sets off the explosives. May supervise the drilling so that the explosive will work to their best advantage. May work in underground tunnels where the use of compressed air is not required. May perform other related duties.

PROFILE GRINDER OPERATOR (Power Equipment Operator)

Operates the grinder, controls speeds, sets depth of cut and performs general maintenance.

ROADBED REMIXER OPERATOR (Power Equipment Operator)

Operates power driven equipment that mixes material either in the roadbed or windrow with asphalt, cement or other additives. May oil, grease or otherwise service and make necessary adjustments to equipment as needed. May perform other related duties.

ROCK DRILL OPERATOR (Power Equipment Operator)

Drives and operates tractor mounted rock drilling machine to drill explosive charge holes through hard materials to facilitate blasting operations. May oil, grease, or otherwise service and make necessary adjustments to equipment as needed. May perform other related duties.

ROLLER/COMPACTOR OPERATOR (Power Equipment Operator)

Operates roller compactor to compact earth fills, subgrades, flexible base and bituminous surface to grade and density specifications. Drives machine in successive overlapping passes over surface to be compacted; determines speed and direction of machine. May oil, grease or otherwise service and make necessary adjustments to equipment as needed. May perform other related duties.

ROTARY BROOM OPERATOR (Power Equipment Operator)

Operates a power broom to clean surface areas such as highways, streets, and parking lots. May oil, grease or otherwise service and make necessary adjustments to equipment as needed. May perform other related duties.

ROTO MILL GROUNDMAN (Power Equipment Operator)

Assists operator in maintaining grade and slope control by use of controls located at the ground stations of the machine.

ROTO MILL OPERATOR (Power Equipment Operator)

Operates a machine which grade is electronically controlled, mounted on tracks or wheels. Performs duties required to maintain a true line, grade and crown when the operator is positioned on the machine. The machine mills by use of a mandrel of various width and diameter. The Roto Mill can be used as a single machine or in a train for cold recycling asphaltic mixtures. May oil, grease and service and make necessary adjustments.

SANDBLASTER-STRUCTURAL STEEL & BRIDGES (Power Equipment Operator)

Operates sandblasting equipment as intended and services as necessary. Performs all other related duties as necessary.

SERVICEMAN-EQUIPMENT

A person who lubricates the moving parts of wearing surfaces of mechanical equipment, changes oil and filters, greases and refuels equipment. Uses power driven equipment such as greasing machines for forcing grease into bearings. Uses grease guns to force grease into bearings. Makes minor adjustments for proper operation of equipment. Keeps machines and equipment clean. Often drives a truck that carries the various fuels, oils and grease. May perform other related duties.

SHOULDER MACHINE OPERATOR (Power Equipment Operator)

Operates machine that spreads and levels materials on shoulders of highways and streets; adjusts width using wrenches; controls machine to push dump truck and maintain constant flow of material. Observes distribution of material and controls direction of machine. May oil, grease, or otherwise service and make necessary adjustments to equipment as needed. May perform other related duties.

SKIDSTEER LOADER OPERATOR (Power Equipment Operator)

Operates a small, rubber-tired, tractor-type equipped with front-mounted, hydraulically powered bucket or other attachments such as backhoe, broom, pavement grinder, forks and pavement braker. May be used for many various types of construction work. Performs routine maintenance, changes attachments, and any other related duties.

SLURRY MACHINE OPERATOR (Power Equipment Operator)

Operates a machine that spreads aggregate to a specified rate on the roadway. Manipulates levers to control the flow of material from the hopper to the spreading mechanism. May oil, grease, or otherwise service and make necessary adjustments to equipment as needed. May perform other related duties.

SPREADER BOX OPERATOR (Power Equipment Operator)

Operates machine that spreads aggregate to a specified depth on the roadway. Manipulates levers to control the flow of material from the hopper to the spreading mechanism. May oil, grease or otherwise service and make necessary adjustments. May perform other related duties.

TRACTOR OPERATOR (Power Equipment Operator)

Operates a powered crawler or pneumatic tired tractor and all attachments. May pull small pneumatic tired roller, heavy hauling equipment, root plows, sheepsfoot rollers, or other miscellaneous small equipment. May oil, grease or otherwise service and make necessary adjustments as needed. May perform other related duties.

TRAFFIC CONTROL SERVICEPERSON

Performs the initial work zone setup for Temporary Traffic Control, including placing temporary pavement markings, laying out and erecting signs. Maintains all devices during the life of the project and completes phase changes and removes all devices upon completion of the project. May perform other related duties.

TRENCHING MACHINE OPERATOR (Power Equipment Operator)

Operates a machine that digs trenches by chain, wheel or ladder, and all attachments. May pull or tow other miscellaneous equipment. May oil, grease or otherwise service and make necessary adjustments to equipment as needed. May perform other related duties.

TRUCK DRIVER-HEAVY DUTY OFF-ROAD (Truck Driver)

Drives such trucks and vehicles as off-road end, bottom or side dump and off-road water haulers. May service and make necessary adjustment for proper operation of equipment. May perform other related duties.

TRUCK DRIVER-SINGLE AXLE (Truck Driver)

Drives a light capacity truck for transporting loads of construction material. The truck is a single rear axle type. May have various kinds of beds and/or attachments. May service and make necessary adjustments for proper operation of equipment. May perform other related duties.

TRUCK DRIVER-TANDEM AXLE (Truck Driver)

Drives a truck used in hauling materials and equipment. The truck is of a tandem rear axle type and may have various kinds of bed and/or attachments. May service and make necessary adjustments for proper operation of equipment. May perform other related duties.

TRUCK DRIVER-TRIPLE/QUADRUPLE AXLE & SEMI (Truck Driver)

Drives a truck equipped with triple or more rear axles or tractor-trailer combination. May service and make necessary adjustments for proper operation of equipment. May perform other related duties.

WELDER

Welds metal components together to fabricate or repair structural steel members in accordance with plans and specifications using brazing and a variety of arc and gas welding equipment. Welds metal parts together, using both gas welding or brazing and any combination of arc welding processes. Performs related tasks such as thermal cutting and grinding. Repairs broken or cracked parts, fills holes and increases size of metal parts. Positions and clamps together components of fabricated metal products preparatory to welding. May perform other related duties.

