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HIGHWAY CONSTRUCTION IN NORTH CAROLINA

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TRUCK DRIVERS

[Commercial Drivers License, Class A Required](#)

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JOB CLASSIFICATIONS AND DESCRIPTIONS

Bridge Painter: Paints and stains structural steel and concrete surfaces of bridges, retaining walls, or other structures. Directs cleaning and abrasive blasting of surfaces prior to painting or staining. Performs other related duties.

Blaster: Loads and fires blast holes for breaking up rock, concrete, and other hard materials. Stores and handles explosives and detonating devices. Attaches fuses and electric wires. May use prima-cord or delay caps. Supervises the storage of explosives and maintains records as required by all local, state, and federal laws. Performs other related duties.

Carpenter: Works from plans to build, assemble, fit together, align, plumb, and set in place forms for molding concrete structures. Forms may be wood, steel, aluminum, fiberglass, or any other type of material. Checks forms while concrete is being placed. Directs others in stripping forms after concrete is placed. May install miscellaneous materials integral to concrete structures. May install prefabricated bridge elements and assist with pile driving. Prepares for slipforming traffic rail and median barrier. May install permanent metal deck forms. May work with power tools. Performs other related duties.

Cement Mason / Concrete Finisher: Finishes the exposed surfaces of fresh concrete paving, median barrier, and every element of concrete structures to the final trowels. Operates bridge deck finishing machine. Forms and finishes edges and joints. Finishes concrete curbs and gutters. Uses block or brick to construct drainage structures or other miscellaneous structures. Finishes exposed surface of concrete after forms have been removed by patching imperfections with fresh concrete, rubbing surface with abrasive stone, and directing others in removing excess or defective concrete with power tools. Performs other related duties.

Ironworker: Works from plans to lay out and install reinforcing steel within forms or in mats of concrete paving. May direct unloading of material. Determines rigging required to complete work. Gives direction to common or skilled laborers. May install miscellaneous materials integral to concrete structures or paving. May work with power tools. Performs other related duties.

Electrician: Plans and directs the layout of electrical conduit and installation of wiring systems and switch panels. Works on overhead and underground electrical distribution systems. Performs other related duties.

Mechanic: Assembles, sets up, adjusts, maintains, and repairs all types of construction equipment and trucks. May perform the duties of a welder in repair of equipment. Performs other related duties.

Telecommunication Technician: Installs and troubleshoots communication equipment including cabling for the transmission of communication circuits. Terminates and tests communication circuits including video, voice, and data. Installs communication equipment in buildings, outdoor cabinets, and pole mounted installations. Installs, terminates, and tests optical fiber cables as well as copper communication cable carrying less than 50 volts AC. Performs other related duties.

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LABORERS

Asphalt, Raker and Spreader: Distributes asphaltic material evenly over road surface by raking and brushing material to correct thickness; may control screed to regulate width and depth of materials; may direct laborers when to add or take away material to fill low spots or to reduce high spots.

Asphalt Screed / Jackman: Primary function is to control the screed to achieve the desired thickness and width of the asphalt pavement being spread. Performs other related duties including providing direction to others in the asphalt lay down crew. May oil and grease equipment as needed.

Carpenter Helper: Works from plans to build, assemble, fit together, align, plumb, and set in place forms for molding concrete structures. Forms may be wood, steel, aluminum, fiberglass, or any other type of material. Checks forms while concrete is being placed. May install miscellaneous materials integral to concrete structures. May install prefabricated bridge elements and assist with pile driving. Prepares for slipforming traffic rail and median barrier. May install permanent metal deck forms. May work with power tools. Performs the above items and other related duties under direction of Carpenters and Supervisors.

Cement Mason / Concrete Finisher Helper: Finishes the exposed surfaces of fresh concrete paving, median barrier and every element of concrete structures to the final trowels. Forms and finishes edges and joints. Finishes concrete curbs and gutters. Uses block or brick to construct drainage structures or other miscellaneous structures. Finishes exposed surface of concrete after forms have been removed by patching imperfections with fresh concrete, rubbing surface with abrasive stone. Removes excess or defective concrete with power tools. Performs the above items and other related duties under direction of Supervisors and Concrete Finishers.

Communications Cable Installer: Installs communication cable under direction of telecommunication technician including optical fiber and cable carrying less than 50 volts AC. Operates equipment associated with cable installation. Performs other related duties.

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

Fence Installer: Works from plans to install a variety of fence types. Locates and sets posts and operates equipment to drive posts. Where needed pours incidental concrete. Performs other related duties.

Guardrail Installer: Works from plans to install steel beam guardrail, cable rail, and all associated end treatments and hardware. Locates and sets posts and foundation blocking and operates equipment to drive posts. Where needed pours concrete for foundation blocking or post support. Performs other related duties.

Laborer, Common or General: A general term used on construction work covering many unskilled classifications requiring work of a physical nature. A laborer works with all crews doing everything from pick and shovel work to cleaning up lumber with hammer, shoveling, and placing concrete, uses air tools, cleans concrete joints and fills joints with sealing compound, applies coating of oil to inside face of forms, may help set and strip forms, unloads and transports reinforcing steel, cures newly poured concrete, helps lower pipe into ditch for pipelayers, builds fences, works with dirt crew keeping construction layout stakes out of the way of dirt-moving equipment. May manually fine grade excavation and ditches and shovel hot asphalt material. May use small power tools and other necessary equipment in demolition work. May work as a flagger or servicer or traffic control devices. Does not ordinarily perform work requiring independent judgment or without close direction by other more skilled workers. Usually an entry level position as the first step to learn a skill.

Laborer, Skilled: Performs a variety of manual duties, usually working in a utility capacity by working on multiple projects and tasks where demands require workmen with varied experience and ability to work without close direction. Unloads and transports reinforcing steel. May occasionally place and tie reinforcing steel. Directs common laborers in pouring concrete. Erects shoring and bracing. Fits together, aligns, and sets to grade metal and wooden forms for placement of concrete paving and curbs. Works with survey crew to set stringline for paving and curb and gutter. Assists in installation of pipe. Installs, operates, and maintains dewatering systems. May assist equipment operators in positioning machines, verifying grades, and signaling operators to dumping positions. Uses power tools and air tools. May work as lead man in a labor crew. Installs and maintains erosion control. May manually operate low skill level equipment. Serves as a general utility construction worker and is typically a second step in learning a skill.

Landscape: Performs a variety of landscape and erosion control activities including installing plants, silt fence, and matting. Also places seed and straw or hydromulch, as well as sod. Uses hand tools to prepare small areas for planting or for installing erosion control devices or stone. May operate low skill level equipment such as a farm tractor. Performs other related duties.

Mechanic Helper: Assembles, sets up, adjusts, and maintains and repairs all types of construction equipment and trucks. May perform the duties of a welder in repair of equipment. Performs these items and other related duties under direction of Mechanics and Supervisors.

Oiler/ Greaser: Performs lubrication intermittently during operation of equipment as required. Must have knowledge of and is responsible for the correct oiling and greasing and changing of filters on equipment according to manufacturers' specifications. Uses compressed air grease guns, wrenches, and other tools. May make adjustments to clutches, brakes and other mechanical items. Keeps record of service for preventive maintenance. May have a laborer assisting him. May require CDL if driving truck on public highways. Performs other related duties.

Pipelayer: Installs concrete, steel, ductile iron, plastic and other flexible or corrugated pipe, and any other type of pipe for storm drainage, water lines, gas lines, and sanitary sewer lines. Lays underground communication and electrical ducts. May install and set electrical ground boxes, hand holes, manholes, inlets, and other structures. Caulks joints, makes threaded and flanged connections, and installs valves and other accessories. Performs other related duties.

Sign Erector: Sets forms, reinforcing steel, anchor, and pours concrete for sign foundations. Fabricates and erects pipe and angle frameworks by bolting, welding, or other means prior to installation of signs. May direct hoisting of signs into place and fastens signs to framework by bolting and other means. Locates and sets lighting brackets. May perform other work associated with signing projects. Performs other related duties.

Traffic Signal / Lighting Installer: Sets forms, reinforcing steel, anchor bolts, and pours/finishes concrete for traffic signal and light pole foundations. Assembles, erects, and plumbs traffic signal and light pole structures by bolting and other means. Installs signal spans, signal heads, signal detection, and lights on equipment. Installs cabling and wiring in signal and light poles, on signal and light spans, underground, and in the pavement. Properly identifies and terminates cables and wiring to appropriate equipment. Installs signal controllers and services equipment. Tests and troubleshoots system for proper operation. Performs other related duties.

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POWER EQUIPMENT OPERATORS:

Asphalt Broom Tractor: Operates a self-propelled machine to sweep and clean roadway surfaces. May oil, grease, or otherwise service and make adjustments to equipment as needed. Performs other related duties.

Bulldozer, Rough: Operates bulldozer to rough grade excavation and embankment areas and to push, level, and distribute earth or other material. May use a push block on front of dozer to push loaded scrapers. Does not perform finish grade work to close specification tolerances. May operate with attachments such as a root rake or ripper. May oil, grease, or otherwise service and make necessary adjustments to equipment as needed. Performs other related duties.

Bulldozer, Fine: Performs many of the same duties of a bulldozer, rough, but in addition performs finish grade work on slopes to close specification control. May also place stone base material in conjunction with a stone spreader box. This work is subject to strict inspection and must conform closely to specifications. May oil, grease, or otherwise service and make necessary adjustments to equipment as needed. Performs other related duties.

Concrete Grinder / Groover: Operates grooving or grinding machines to provide a textured surface and improve the ride quality of bridge decks or concrete pavement. May oil, grease, or otherwise service and make necessary adjustments to equipment as needed. Performs other related duties.

Concrete Pump: Operates a pumping machine that pumps fresh concrete, gunite, or grout. May oil, grease, or otherwise service and make necessary adjustments to equipment as needed. Performs other related duties.

Crane, Boom Truck: Operates a boom truck of any capacity, to hoist and move materials, raise and lower heavy weights, and perform other related operations. May oil, grease, or otherwise service and make necessary adjustments to equipment as needed.

Crane, Rough/All Terrain: Operates a rubber tired rough terrain hydraulic crane, cherry picker, of any capacity, to hoist and move materials, raise and lower heavy weights, and perform other related operations. May oil, grease or otherwise service and make necessary adjustments to equipment as needed.

Crane, Other: Operates a crawler lattice or hydraulic boom crane, a carrier mounted lattice or hydraulic boom crane, derricks, dragline, overhead gantry or straddle type crane, to hoist and move materials, raise and lower heavy weights, and perform other related operations. May oil, grease or otherwise service and make necessary adjustments to equipment as needed.

Drill Operator, Structure: Operates a crawler or truck mounted drill rig. Installs foundations to include temporary and permanent casing and may include other geotechnical operations such as soil nails, rock nails, tiebacks, anchors or jet grouting. May oil, grease, or otherwise service and make necessary adjustments to equipment as needed. Performs other related duties.

Drill Operator, Rock: Operates rock drilling equipment that may be used in advance of blasting operations. May oil, grease, or otherwise service and make necessary adjustments to equipment as needed. Performs other related duties.

Excavator, Rough: Operates a crawler or rubber-tired machine mounted with an excavator bucket. Used for excavating ditches and structures, laying pipe and precast concrete structures, loading trucks, and placing rock riprap. May also be equipped with various hydraulic attachments. May oil, grease, or otherwise service and make necessary adjustments to equipment as needed. Performs other related duties.

Excavator, Fine: Operates a crawler or rubber-tired machine mounted with an excavator bucket. Used for excavating ditches, structures, mass excavations, laying pipe and precast concrete structures, loading trucks, and placing rock riprap. Performs the same duties as the excavator, rough, but also performs dressing of earthwork to a finish product or performs high proficiency loading. May also be equipped with various hydraulic attachments. May oil, grease, or otherwise service and make necessary adjustments to equipment as needed. Performs other related duties.

Grader / Blade, Rough: Operates motor grader to grade excavation and embankment and to lay asphalt base and other materials. May blade haul roads and do other general motor grader work, but does not perform finish grade work to close specification tolerances. This operator may be a learner in the first phase of learning the skills of motor grader work. May oil, grease, or otherwise service and make necessary adjustments to equipment as needed. Performs other related duties.

Grader / Blade, Fine: Performs many of the same duties of motor grader, rough, but in addition performs finish grade work to bluetops or other close specification control. May also operate other subgrade trimming equipment to establish the same product. This work is subject to strict inspection and must conform closely to specifications. May oil, grease, or otherwise service and make necessary adjustments to equipment as needed. Performs other related duties.

Loader, 2 cubic yards or Less: Operates a rubber-tired, skid steer, or crawler type tractor with an attached scoop type bucket on front end. Machine is used to load materials from stockpiles, excavation, charging batch plants, and loading and unloading. May be used with attachments in lieu of the bucket. May oil, grease, or otherwise service and make necessary adjustments to equipment as needed. Performs other related duties.

Loader, Greater than 2 cubic yards: Operates a rubber-tired, skid steer, or crawler type tractor with an attached scoop type bucket on front end. Machine is used to load materials from stockpiles, excavation, charging batch plants, loading and unloading trucks. May be used with attachments in lieu of the bucket. May oil, grease, or otherwise service and make necessary adjustments to equipment as needed. Performs other related duties.

Material Transfer Vehicle, (Shuttle Buggy): Operate an asphalt transfer machine. Directs truck drivers who are dumping asphalt into the MTV and conveys the asphalt material into the asphalt paver. May oil, grease, or otherwise service and make necessary adjustments to equipment as needed. Performs other related duties.

Milling Machine: Operates power-driven milling machine that planes material from the roadbed and discharges the material into a hauling unit or a windrow. May oil, grease or otherwise service and make necessary adjustments to equipment as needed. Performs other related duties.

Off Road Hauler / Water Tanker: Drives an off road hauler loaded by another machine, mounted on wheels, that transports earth or other materials. May also operate an off road water tanker. May oil, grease, or otherwise service and make necessary adjustments to equipment as needed. Performs other related duties.

Pavement Marking Equipment: Operates a machine used in laying stripes or markers on all types of pavement. Loads machine with appropriate materials and may walk behind or ride on machine. May oil, grease, or otherwise service and make necessary adjustments to equipment as needed. Performs other related duties.

Paver, Asphalt: Operates a self-propelled paving machine that spreads and levels asphaltic material on highway subgrade. Controls movement of machine, raises and lowers screed, regulates width of screed. May oil, grease, service, and make adjustments to equipment as needed. Performs other related duties.

Paver, Concrete: Operates a self-propelled paving machine which may or may not travel on paving forms, spreading and leveling fresh concrete to grade by use of augers and screeds. May oil, grease, or otherwise services and make adjustments to equipment as necessary. Performs other related duties

Roller, Asphalt Breakdown: Operates a self-propelled machine with either steel wheels or pneumatic tires which is used to compact and smooth bituminous materials. Makes the initial passes over the newly placed asphalt to establish density and even compaction of the material. May oil, grease, or otherwise services and make adjustments to equipment as necessary. Performs other related duties

Roller, Asphalt Finish: Operates a self-propelled machine with either steel wheels or pneumatic tires which is used to compact and smooth bituminous materials to achieve the finish surface. May oil, grease, or otherwise services and make adjustments to equipment as necessary. Performs other related duties.

Roller, Other: Operates a self-propelled machine with either steel wheels or pneumatic tires which is used to compact earth fills, subgrade, flexible base, and all other types of materials except bituminous. May oil, grease, or otherwise service and make necessary adjustments to equipment as needed. Performs other related duties.

Scraper, Rough: Operates a self-contained wheeled tractor scraper, both self-loading or assisted by crawler tractors or other scrapers. Used to excavate and transport earth or other materials. May oil, grease, or otherwise service and make adjustments to equipment as needed. Performs other related duties.

Scraper, Fine: Performs many of the same duties of scraper, rough, but in addition performs finish grade work to bluetops or other close specification control. May oil, grease, or otherwise service and make adjustments to equipment as needed. Performs other related duties.

Slip Form Machine: Operates a self-propelled machine which places curb and gutter, median safety barrier, or bridge rail. Manipulates hand or foot levers to control movements of the machine. Raises or lowers screed and regulates width of screed. May oil, grease, or otherwise service and make necessary adjustment to equipment as needed. Performs other related duties.

Tack Truck / Distributor Operator: Drives distributor truck, sets spray bars, and operates valves and levers to control distribution of bituminous material for highway surfacing. May oil, grease, or otherwise service and make adjustments to equipment as needed. Performs other related duties.

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TRUCK DRIVERS

Truck Driver, Commercial Drivers License, Class A Required: Operates CDL vehicle regulated by the Federal Motor Carriers Safety Standards hauling material and large equipment exceeding gross vehicle weight of 26,000 pounds. May service and make necessary adjustments for proper operation of equipment. Performs other related duties.

Truck Driver, Commercial Drivers License, Class B Required: Operates CDL vehicle regulated by the Federal Motor Carriers Safety Standards hauling material not exceeding gross vehicle weight of 26,000 pounds. May service and make necessary adjustments for proper operation of equipment. Performs other related duties.

Truck Driver, Commercial Not Required: Operates hauling equipment within the project limits in areas that are not regulated by the Federal Motor Carriers Safety Standards. May service and make necessary adjustments for proper operation of equipment. Performs other related duties.

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