

Title: Lead Heavy Bridge Repairer	Effective Date: September 22, 2025	Grade: 10	Job Category: Skilled Craft
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CHARACTERISTICS OF WORK

Under general supervision, this position is responsible for building and repairs, primarily bridges, in support of bridge construction and maintenance throughout the state.

EXAMPLES OF WORK

The following examples are intended only as illustrations of various types of work performed. No attempt is made to be exhaustive. Related, similar, or other logical duties are performed as assigned. The Department may require employees to perform functions beyond those contained in job descriptions. The Department may modify job descriptions based on Department needs. The Arkansas Department of Transportation is an "at will" employer.

- Build and finish carpentry jobs such as framing, form building, and outside and inside finishing.
- Repair and construct bridges within the State.
- Construct and repair guard rails.
- Work on road crews.
- Remove snow and ice during inclement weather.
- Load, unload and stack bags of salt, sand, cement, chemicals, etc.
- Train and provide direct assistance to Heavy Bridge Repairers.

ADDITIONAL EXAMPLES OF WORK – POLYMER CREW

- Mix and spread epoxy on bridge decks.
- Remove existing stripes with scarifiers.
- Sandblast spalls and gutter lines of bridge deck.
- Remove and install joint materials.

ADDITIONAL EXAMPLES OF WORK – PAINT CREW

- Pressure wash beams and bridge caps.
- Sand blast beams.
- Paint beams with airless sprayers.
- Hang paint containment tarps.

ADDITIONAL EXAMPLES OF WORK – BRIDGE BUILDING CREW

- Install box culverts.
- Install precast channel beam units.
- Form wingwalls, headers and footers for box culverts.
- Operate heavy equipment such as excavators, track loaders and forklifts.

ADDITIONAL EXAMPLES OF WORK – BRIDGE SUPPORT CREW

- Support bridge inspection teams with lane closures.
- Operate bridge inspection units and manlifts.
- Maintenance equipment for inspection.
- Work with maintenance crews when necessary.

MINIMUM REQUIREMENTS

Education and experience: The educational equivalent to a diploma from an accredited high school. General construction background.

ADDITIONAL REQUIREMENTS FOR SPECIALTY CREWS

Experience working on the crew that the position will lead.

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Knowledge, skills and abilities: Ability to read and speak the English language sufficiently to converse with the general public, to understand highway traffic signs and signals in the English language, and to respond to official inquiries, and to make entries on reports and records. Ability to read blueprints and perform basic mathematics. Demonstrated skill and knowledge of carpentry techniques. Ability and knowledge to work with steel including the use of cutting torch, welder, drills, and air-operated wrenches. Knowledge of traffic control. Ability and knowledge to rig scaffolds, slings and blocks and tackle. Ability to paint and knowledge of paint equipment and methods. Ability and knowledge to work with concrete including concrete mixers, finishing, jackhammers, and reinforcing steel. Effective leadership and communication skills.

ADDITIONAL KNOWLEDGE, SKILLS AND ABILITIES – POLYMER CREW

- Ability to operate heavy equipment such as shot blasters and skid steers.
- Know the operation and cleaning procedures of the epoxy pump.
- Knowledge of the full operation of the epoxy trailer and aggregate blower.
- Knowledge of the process of polymer overlay (from cleaning the bridge deck to the application of epoxy and aggregate).

ADDITIONAL KNOWLEDGE, SKILLS AND ABILITIES – PAINT CREW

- Knowledge with mixing and applications of paint.
- Knowledge in rigging with ropes and cables.
- Ability to operate sand blasters and pressure washers.
- Ability to operate manlifts and basket trucks.

ADDITIONAL KNOWLEDGE, SKILLS AND ABILITIES – BRIDGE BUILDING CREW

- Ability to operate heavy equipment such excavators, track loaders, and forklifts.
- Knowledge of the installation process for box culverts (from excavating to setting units).
- Ability to form wing walls, headers, and footers of box culverts.
- Knowledge of the process of removing channel beam units and installing new precast units.
- Ability to find elevation with laser slope levels.

ADDITIONAL KNOWLEDGE, SKILLS AND ABILITIES – BRIDGE SUPPORT CREW

- Ability to operate all bridge inspection units.
- Ability to operate man lifts.
- Knowledge of temporary interstate lane closures per MUTCD.
- Knowledge of routine maintenance on bridge inspection units.

Physical requirements: Ability to stand and walk for extended periods. Ability to climb up and down hills and grades as well as in and out of vehicles and equipment. Ability to lift up to 50 pounds with or without reasonable accommodation. Ability to work at varying heights.

Working conditions: Constant statewide travel. Ability to perform assigned duties in all types of weather as well as other work conditions, e.g. noise, dust and fumes. Constant statewide travel for this position means overnight travel three or four nights per week, 52 weeks per year with reimbursement for expenses.

Licenses, registrations and certifications: Valid Class A commercial driver’s license with a tanker (“N”) endorsement. A pre-employment drug/alcohol test will be conducted after a contingent offer of employment or transfer has been made, and prior to the candidate performing any work for the Department in that capacity. Internal applicants who are already in a safety-sensitive position will not be subject to pre-employment drug/alcohol testing; however, offers to internal applicants who are not in a safety-sensitive position will be contingent upon pre-employment drug/alcohol testing. Subject to additional drug/alcohol testing according to the provisions of the ARDOT Drug and Alcohol Testing Program.

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