

## **BRIDGE CONSTRUCTION MECHANIC**

**DISTINGUISHING FEATURES OF THE CLASS:** This class involves the performance of skilled and semi-skilled construction and maintenance tasks related to construction and repair of bridges and approaches which may include carpentry, masonry, iron working, steel fabricating, operation of construction equipment such as excavators, front end loaders, backhoes, trucks and cranes as required. Incumbents are also required to perform work above and below ground level often in adverse weather conditions. Does related work as required.

**TYPICAL WORK ACTIVITIES: (Illustrative Only)** Operates bridge construction equipment such as excavators, front end loaders, backhoes, trucks, cranes and hydraulically powered hoe rams; Installs decking stringers, braces, hand rails, and headings on bridges; Builds concrete forms, footings, foundations, walls and abutments; Installs beams, steel decks, posts and ribbon railings; Operates water and concrete pumps, electric compressors, various powered hammers, paving breakers, electric drills, saws, mechanical wrenches, hoists, gas torches, plasma cutters, rebar benders & cutters and other tools as the job requires; Rigs and erects scaffolding; Assists in the mixing, pouring and finishing of concrete, asphalt, and other construction materials; Operates shotcrete equipment; Loads and unloads materials and tools; May use welding equipment to perform a variety of welding tasks; May participate in building and structure demolition; May participate in snow removal operations when weather conditions prelude bridge construction or maintenance activities; Participates in the maintenance and repair of equipment and tools used by bridge crews.

**FULL PERFORMANCE, KNOWLEDGE, SKILLS, ABILITIES, AND PERSONAL CHARACTERISTICS:** Working knowledge of road and bridge construction and maintenance practices; Working knowledge of the various tools and equipment used in bridge construction; Working knowledge of bridge and road construction safety policies and procedures; Ability to follow written and oral instructions; Ability to work skillfully with ropes and rigging equipment; Ability to work above ground, on scaffolding or suspended from underneath a bridge; Skill in the use of common hand tools; Ability to perform medium to heavy physical labor; Willingness to work out-of-doors under adverse weather conditions; Physical condition commensurate with the demands of the position.

### **MINIMUM QUALIFICATIONS:**

- A. Three years of experience in bridge construction, reconstruction, rehabilitation or maintenance, one year of which shall have been in the Delaware County Public Works Department, OR
- B. Two years of experience in the operation of heavy equipment, welding, concrete construction or related field, AND one year experience in bridge construction, reconstruction, rehabilitation or maintenance in the Delaware County Public Works Department.

**SPECIAL REQUIREMENTS:** Valid Class B CDL Driver's License with Air Brakes or higher level license at time of appointment and maintained during employment.

Adopted 3/14/83

Revised 9/18/91; 2/18/93; 10/28/16

Reviewed 5/16/18