

STATE OF OHIO (DAS)CLASSIFICATION
SPECIFICATION**CLASSIFICATION SERIES:**

Bridge Worker

SERIES NO.:

5323

MAJOR AGENCIES:

Natural Resources, Transportation

EFFECTIVE DATE:

01/09/2005

SERIES PURPOSE:

The purpose of the bridge worker occupation is administration, maintenance & repair of bridges.

At the lower levels, incumbents operate drawbridges or provide skilled maintenance & repair to bridges.

At the higher-levels, incumbents act as lead workers.

CLASS TITLE

Bridge & Lock Tender

CLASS NUMBER

53230

PAY RANGE

05

EFFECTIVE

03/26/1990

CLASS CONCEPT:

The entry level class works under immediate supervision & requires some knowledge of bridge operations in order to operate & maintain drawbridges.

CLASS TITLE

Bridge Worker 1

CLASS NUMBER

53231

PAY RANGE

07

EFFECTIVE

01/09/2005

CLASS CONCEPT:

The full performance level class works under general supervision & requires considerable knowledge of bridge maintenance & repair in order to perform skilled maintenance & repair of bridges, culverts & guardrails.

CLASS TITLE

Bridge Worker 2

CLASS NUMBER

53232

PAY RANGE

08

EFFECTIVE

07/23/1995

CLASS CONCEPT:

The full performance level class works under direction & requires considerable knowledge of bridge operations in order to act as lead worker (i.e., provides work direction & training) over lower-level bridge workers or other personnel assigned to bridge crew.

<u>CLASS TITLE</u>	<u>CLASS NUMBER</u>	<u>B. U.</u>	<u>EFFECTIVE</u>	<u>PAY RANGE</u>
Bridge & Lock Tender	53230	06	03/26/1990	05

JOB DUTIES IN ORDER OF IMPORTANCE: (These duties are illustrative only. Incumbents may perform some or all of these duties or other job-related duties as assigned.)

Operates & maintains drawbridge, passing, directing & assisting watercraft traffic.

Cleans & maintains gears & motors, channel markings, structures & channel bank & clears ice & snow.

Operates 2-way radio for snow & ice control or operates marine radio & keeps logs on bridge openings & river gauge readings.

MAJOR WORKER CHARACTERISTICS:

Knowledge of addition/subtraction; multiplication/division; safety practices pertaining to operations of drawbridge & watercraft*; public relations*. Skill in operation of drawbridge*; operate small motor boat; operation of 2-way or marine radio*. Ability to maintain accurate records; understand system of mechanical procedures; work alone on most tasks.

(*)Developed after employment.

MINIMUM CLASS QUALIFICATIONS FOR EMPLOYMENT:

Formal education in arithmetic that includes addition, subtraction, multiplication & division & in reading, writing & speaking common English vocabulary; 3 mos. trg. or 3 mos. exp. in operation of small water boats.

-Or equivalent of Minimum Class Qualifications For Employment noted above.

TRAINING AND DEVELOPMENT REQUIRED TO REMAIN IN THE CLASSIFICATION AFTER EMPLOYMENT:

Not applicable.

UNUSUAL WORKING CONDITIONS:

May work rotating shift; may be exposed to dangerous machinery; may work outside exposed to weather.

<u>CLASS TITLE</u>	<u>CLASS NUMBER</u>	<u>B. U.</u>	<u>EFFECTIVE</u>	<u>PAY RANGE</u>
Bridge Worker 1	53231	06	01/09/2005	07

JOB DUTIES IN ORDER OF IMPORTANCE: (These duties are illustrative only. Incumbents may perform some or all of these duties or other job-related duties as assigned.)

Performs skilled maintenance & repair, involving use of masonry, carpentry & welding skills, reading of blueprints & use of various tools & equipment, of bridges, culverts & guardrails due to age, overload or accident & to prevent immediate or future failure (e.g., cuts & removes deteriorated concrete &/or asphalt; mixes, pours, finishes & water proofs concrete; lays stone & builds catch basins; repairs & replaces culverts & headwalls; builds forms, repairs & replaces wooden bridge decks, fences & guardrails; cuts & welds steel decks, mounting posts, brackets, tie beams & related damaged or deteriorated parts; jacks up bridges to realign & repair rockers & center bearing pads; cleans bridge decks; sandblasts old paint to remove graffiti & paints bridges; replaces abutment piles & wing walls; repairs & patches piers, abutments & retaining walls; performs full deck repair & deck replacement; pressure washes scuppers, downspouts & vertical conductors & reconnects rubber couplings on downspouts, replaces neoprene troughs & repairs damaged drains for drainage; removes & replaces expansion joints; lubricates bridge hinges).

Operates variety of tools & equipment (e.g., crane, backhoe, front end loader, dump truck) to excavate, backfill, install steel & culverts, haul materials & remove snow & ice.

Maintains & repairs specialized equipment on drawbridge (e.g., bearings, lights & signals); maintains & repairs vehicles & equipment used by bridge crews.

Sets up traffic control cones & signs; acts as flagman on traffic control; assists in bridge inspections (e.g., sounds decks; core drilling; mounts paint samples; identifies cracks & spilling of concrete & rusting of crossmembers; removes test plugs from roads & bridge decks; repairs slopes, steps & slides using various equipment; tests experimental concrete or quickcrete; patches potholes; performs general building maintenance (e.g., repair of drains) & grounds maintenance around bridges & buildings.

MAJOR WORKER CHARACTERISTICS:

Knowledge of standards & designs & construction & material specifications pertaining to bridge repair & maintenance*; addition/subtraction; multiplication/division. Skill in operation of equipment associated with bridge maintenance & repair (e.g., jack hammer & cement mixer); masonry*; carpentry*; welding; operation of motorized equipment associated with bridge maintenance & repair (e.g., crane, backhoe, front end loader & dump truck; maintenance of drawbridge equipment*; vehicle maintenance*. Ability to read blueprints; lift 50-100 pounds; understand system of mechanical procedures.

(*)Developed after employment.

MINIMUM CLASS QUALIFICATIONS FOR EMPLOYMENT:

Formal education in arithmetic that includes addition, subtraction, multiplication & division & in reading, writing & speaking common English vocabulary; 6 mos. trg. or 6 mos. exp. in welding; 6 mos. trg. or 6 mos. exp. in operation of variety of motorized vehicles & construction equipment (e.g., welding torch, jack hammer, cement mixer, crane, backhoe, front end loader & dump truck); valid driver's license.

Note: Valid commercial driver's license also required if motorized equipment is of type & size regulated by Sections 4506.01 & 4506.12 of Revised Code.

-Or equivalent of Minimum Class Qualifications For Employment noted above.

TRAINING AND DEVELOPMENT REQUIRED TO REMAIN IN THE CLASSIFICATION AFTER EMPLOYMENT:

Not applicable.

UNUSUAL WORKING CONDITIONS:

Works outside exposed to weather; exposed to dirt, dust, noise, fumes, sewage & water; may be on call 24 hrs., 7 days per week; may be exposed to dangerous machinery; may be exposed to traffic hazards.

<u>CLASS TITLE</u>	<u>CLASS NUMBER</u>	<u>B. U.</u>	<u>EFFECTIVE</u>	<u>PAY RANGE</u>
Bridge Worker 2	53232	06	07/23/1995	08

JOB DUTIES IN ORDER OF IMPORTANCE: (These duties are illustrative only. Incumbents may perform some or all of these duties or other job-related duties as assigned.)

Acts as lead worker (i.e., provides work direction & training) over bridge crew (e.g., inspects job site for safety hazards; monitors project work for quality & completeness; checks to ensure all materials & equipment are available for assigned work) & participates in skilled maintenance & repair of bridge decks, abutments, arches, railings, guardrails, approaches & in repair & installation of culverts & headwalls.

Completes required reports on daily basis summarizing all workers, what work or project was completed, equipment & materials used & numbers of hours used; notifies engineer or county manager of any violations of rules, regulations & laws.

Operates snow & ice removal equipment; sets up traffic control signals & performs basic preventive maintenance on vehicles & equipment; performs basic building & grounds maintenance; inspects bridges for deterioration to determine need for repair or replacement; in Ohio Department of Natural Resources, participates in/leads fire suppression activities, marks & clears trails & maintains roads on park grounds.

MAJOR WORKER CHARACTERISTICS:

Knowledge of supervisory principles/techniques*; employee training & development*; traffic control, bridge construction & maintenance standards, designs, & construction & material specifications. Skill in operation of motorized equipment & tools associated with bridge maintenance & repair (e.g., jack hammer, cement mixer, backhoe, front end loader, dump truck); welding; carpentry; masonry; operation of snow & ice removal equipment; equipment maintenance. Ability to deal with problems involving several variables within familiar context; lift 50-100 lbs.; read blueprints; maintain accurate records.

(*)Developed after employment.

MINIMUM CLASS QUALIFICATIONS FOR EMPLOYMENT:

Formal education in arithmetic that includes addition, subtraction, multiplication & division & in reading, writing & speaking common English vocabulary; 12 mos. trg. or 12 mos. exp. in basic carpentry, welding & masonry; 12 mos. trg. or 12 mos. exp. in operation of variety of motorized equipment & tools associated with bridge maintenance & repair (e.g., jack hammer, cement mixer, backhoe, front end loader & dump truck); 12 mos. trg. or 12 mos. exp. in bridge maintenance & repair & related safety practices, standards & designs & construction & material specifications; valid driver's license.

-Or 12 mos. exp. as Bridge Worker 1, 53231; valid driver's license.

Note: Valid commercial driver's license also required if motorized equipment is of type & size regulated by Sections 4506.01 & 4506.12 of Revised Code.

-Or equivalent of Minimum Class Qualifications For Employment noted above.

TRAINING AND DEVELOPMENT REQUIRED TO REMAIN IN THE CLASSIFICATION AFTER EMPLOYMENT:

Not applicable.

UNUSUAL WORKING CONDITIONS:

Works outside exposed to weather; exposed to dirt, dust, noise, fumes, sewage & water; may be on-call 24 hrs., 7 days per week; may be exposed to dangerous machinery; may be exposed to traffic hazards.