

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

Electrician

SERIES NO.:

5228

MAJOR AGENCIES:

All Agencies

EFFECTIVE DATE:

06/30/2013

SERIES PURPOSE:

The purpose of the electrician occupation is to install, maintain & repair electrical wiring systems, fixtures, controls & equipment.

At the lower level, incumbents install, modify, repair, troubleshoot & test new & existing electrical lines, circuits, systems, fixtures, controls & equipment.

At the higher level, incumbents serve as lead workers (e.g., provide work direction & training) over lower-level staff &/or install, troubleshoot, test, modify &/or maintain telecommunications &/or electronic data processing equipment (e.g., telephone lines; computer cable lines; circuit boards) &/or install, troubleshoot, test, modify &/or maintain complex electronic security system for Department of the Adjutant General, air force bases (e.g., Rickenbacker Air Force Base).

GLOSSARY:

The Electrician 2, 52282 provides basic maintenance for telecommunications &/or electronic processing equipment in an institutional setting. However, such is typically performed for less than 20% of the time. For the full range of telecommunications duties see the Telecommunications series, 5241.

Note: this series may be used within agency/institution &/or in community setting.

CLASS TITLE

Electrician 1

CLASS NUMBER

52281

PAY RANGE

07

EFFECTIVE

06/30/2013

CLASS CONCEPT:

The full performance level class works under general supervision & requires considerable knowledge of & skill in electrician trade in order to install, troubleshoot, modify, maintain & repair electrical wiring systems, fixtures, controls & equipment.

CLASS TITLE

Electrician 2

CLASS NUMBER

52282

PAY RANGE

08

EFFECTIVE

06/30/2013

CLASS CONCEPT:

The advanced level class works under direction & requires thorough knowledge of & skill in the electrician trade in order to act as lead worker (i.e., provide work direction & training) over lower-level electricians &/or crew &/or inmates &/or patient workers engaged in installation, maintenance & repair of electrical wiring systems, fixtures, controls & equipment &/or install, troubleshoot, test, modify &/or maintain basic, telecommunications &/or electronic data processing equipment (e.g., cable television lines; telephone lines; computer/terminal lines; printers; analog &/or digital phones) in institutional setting &/or install, troubleshoot, test, modify &/or maintain complex electronic security system for Department of Adjutant General's, air force bases (e.g., Rickenbacker Air Force Base).

<u>CLASS TITLE</u>	<u>CLASS NUMBER</u>	<u>B. U.</u>	<u>EFFECTIVE</u>	<u>PAY RANGE</u>
Electrician 1	52281	06	06/30/2013	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.)

Installs, troubleshoots, modifies, maintains & repairs electrical wiring systems, fixtures, controls & equipment (e.g., electric panels, conduits, motors, appliances, fans, transformers, heating & cooling equipment, fire & other alarm/emergency systems, elevators &/or switches).

Installs & replaces lighting fixtures (e.g., light bulbs; ballasts; switches; fuses; exterior &/or perimeter lighting); tests, installs &/or maintains fire alarm systems &/or security systems (e.g., sprinkler systems; smoke detectors; infrared sensors); prepares material & cost estimates for maintenance projects.

Performs other miscellaneous duties, (e.g., semi-skilled carpentry, painting & plumbing; water treatment); completes material & cost estimates, reports & logs; orders parts; maintains inventory of electrical supplies; operates snow & ice removal & grass cutting equipment); operates heavy equipment (e.g., backhoe; trencher; forklift).

MAJOR WORKER CHARACTERISTICS:

Knowledge of national electric code*; Ohio safety & health association guidelines*; inventory control*; red cross safety practices; fire code*, addition, subtraction, multiplication & division; safety practices in electrical trade. Skill in electrical trade; use of electrical tools (e.g., volt, amp, ohmmeters; power pipe & conduit threader; drill press; grinder) to install, test, maintain & repair equipment. Ability to read blue prints &/or schematics*; apply principles to solve practical, everyday problems; read technical manuals & instructions; stand, walk, bend continuously; lift up to 50 lbs. repeatedly; move limbs/fingers easily to perform manual functions repeatedly; move whole body in continuous or heavy labor.

MINIMUM CLASS QUALIFICATIONS FOR EMPLOYMENT:

12 mos. trg. or 12 mos. verifiable exp. in electrical work under supervision of experienced electrician; formal education in arithmetic that includes addition, subtraction, multiplication & division & in reading & writing common English vocabulary.

-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 indoors & outdoors; exposed to dirt, dust, grease, unpleasant weather, loud noises, hot & confined work areas & high voltage; subject to burns, cuts, bruises & electrical shock; may work on scaffolding, utility poles or extension ladder.

<u>CLASS TITLE</u>	<u>CLASS NUMBER</u>	<u>B. U.</u>	<u>EFFECTIVE</u>	<u>PAY RANGE</u>
Electrician 2	52282	06	06/30/2013	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 (e.g., provides work direction & training) over lower-level electricians &/or crew &/or inmates &/or patient workers engaged in installation, maintenance & repair of electrical wiring systems, fixtures, controls & equipment,

&/OR

Installs, troubleshoots, tests, modifies &/or maintains basic telecommunications &/or electronic data processing equipment (e.g., cable television lines; telephone lines; computer/terminal lines; printers; analog &/or digital phones) in institutional setting,

&/OR

Installs, troubleshoots, tests, modifies &/or maintains complex electronic security system for Department of Adjutant General's air force bases (e.g., Rickenbacker Air Force Base).

Installs & replaces lighting fixtures, light bulbs, ballasts, switches & fuses; installs, maintains & repairs electrical wiring systems, fixtures, light bulbs, ballasts, switches & fuses; installs, tests, troubleshoots, maintains & repairs electrical wiring systems, fixtures, controls & equipment (e.g., motors, appliances, fans, transformers, heating & cooling equipment, fire & other alarm/security systems, elevators & switches).

Orders, procures &/or purchases supplies & materials from vendors &/or contractors; maintains tool count of tools used by inmates (e.g., completes tool control forms daily; maintains strict inventory of tools).

Performs other maintenance &/or miscellaneous duties (e.g., performs semi-skilled carpentry, painting, plumbing &/or water treatment; reads blueprints &/or schematic diagrams; determines time & materials needed; completes reports; maintains inventory; ensures compliance with security regulations; participates in detection & confiscation of contraband; assists in escape prevention & apprehension; completes material cost estimates, reports & logs; orders parts; maintains inventory of electrical supplies; operates snow & ice removal & grass cutting equipment); operates heavy equipment (e.g., backhoe; trencher; forklift).

MAJOR WORKER CHARACTERISTICS:

Knowledge of national electric code*; Ohio safety & health association guidelines*; inventory control*; red cross safety practices; fire code*, employee training & development; safety practices in electrical trade. Skill in operation of electrical tools (e.g., volt, amp, ohmmeters; power pipe & conduit threader; drill press; grinder) to install, test, maintain & repair equipment. Ability to read blue prints &/or schematics; apply principles to solve practical, everyday problems; read technical manuals & instructions; stand, walk, bend continuously; lift up to 50 lbs. repeatedly; move limbs/fingers easily to perform manual functions repeatedly; move whole body in continuous or heavy labor.

(*)Developed after employment.

MINIMUM CLASS QUALIFICATIONS FOR EMPLOYMENT:

18 mos. trg. or 18 mos. verifiable exp. in electrical work under supervision of experienced electrician; formal education in arithmetic that includes addition, subtraction, multiplication & division & in reading & writing common English vocabulary.

-Or 6 mos. exp. as Electrician 1, 52281.

-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 & inside; exposed to dirt, dust, grease, unpleasant weather, loud noises, hot & confined work areas & high voltage; subject to burns, cuts, bruises & electrical shock; may work on scaffolding, utility poles or extension ladder; may require travel to community site under contract with Department Of Mental Health.