

JOB DESCRIPTION OF AN APPRENTICE ELECTRICIAN AND TECHNICIAN

An Apprentice **must** possess the following abilities:

1. Physical Requirements

a. Lifting

Lifting, carrying pushing and/or pulling 50 lbs. Maximum, frequent lift and/or carry up to 25 lbs.

b. Climb and/or Balance

Ascending or descending ladders, stairs, scaffolding, ramps or poles a minimum of six feet on a regular basis and up to thirty-two feet on an occasional basis, maintaining body equilibrium to prevent falling when walking, standing or crouching on aerial lifts or even surfaces.

c. Stooping, Kneeling, Crouching and/or Crawling

Bending downward and forward by bending spine at waist; bending legs at knees to come to rest on knee or knees; bending downward and forward by bending legs and spine; moving about on hands and knees or feet.

d. Reaching, Handling, Fingering and/or Feeling

Extending hand(s) and arm(s) in any direction; seizing, holding, grasping, and turning objects using hands; picking, pinching, or otherwise working with fingers; perceiving size, shape, temperature, or texture of objects through contact with skin, primarily fingers.

e. Seeing

The ability to perceive the nature of objects by use of the eyes; consider acuity far, acuity near, depth perception, field of vision, accommodation, etc.

f. Working Conditions

Both Inside and Outside Work. Performing tasks where exposure to and protection from weather conditions are both present in significant portions of the time spent working. Incidental, or infrequent exposure or protection is classified under either "inside," or "outside" categories.

g. Hazards

Ability to anticipate and/or prevent danger of life, health or exposure to bodily injury such as proximity to moving mechanical parts, exposure to electrical shock, working in high or exposed places, exposure to burns, radiant energy, explosives, or toxic or caustic chemicals.

h. Work Functions

Analyzing, examining and evaluating data. Presenting alternative actions in relation to the data is frequently involved. Data includes numbers, words, symbols, ideas, concepts and oral verbalization.

i. Speaking/Signaling

Talking with and/or signaling people to convey or exchange information. Includes giving assignments and/or directions to helpers or assistants.

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j. Precision Working

Using body members and/or tools or work aids to work, move, guide, or place objects or materials in situations where ultimate responsibility for the attainment of standards occurs and selection of appropriate tools, objects, or materials, and the adjustment of the tool to the task require exercise of considerable judgment.

2. The ability to use and manipulate the following tools, or other similar tools which may be required to perform electrical work (First Year Apprentices: see list assigned):

Electrical

Knife	Pencil
25' Tape Measure	Claw Hammer
Two (2) Pair Adjustable Pliers	Center Punch
9" Lineman Pliers	Voltage Tester
Diagonal Pliers	Flashlight
Needle Nose Pliers	Combination Square
Crescent Wrench	Small File
$\frac{3}{8}$ " – $\frac{9}{16}$ " Open End Wrenches	Tool Pouch
Hacksaw	Keyhole Saw
Allen Wrenches to $\frac{3}{8}$ "	Tap Wrenches
Six (6) Screwdrivers	Nut Drivers to $\frac{1}{2}$ "
Torpedo Level 9"	
Tin Snips	

Telecom

Diagonal Cutters 6"	8" Diagonal Cutters
Long Nose Pliers 6"	Claw Hammer
$\frac{3}{16}$ " x 4" or 6" Screw Driver	Hacksaw
$\frac{1}{4}$ " x 4" Screw Driver	Knife & Scissor kit
$\frac{3}{8}$ " x 6" or 8" Screw Driver	Tool Pouch
#3 Phillips Head Screw Driver	Tool Box
#2 Phillips Head Screw Driver	25' Tape Measure
#1 Phillips Head Screw Driver	Flashlight
Push-on Tool (type 66)	Keyhole Saw
Torpedo Level 9"	Adjustable Wrench (10")
	Adjustable Pliers (9")

3. Ability to successfully demonstrate proficiency in the trade as evidenced by ability to pass the Commonwealth of Massachusetts Electrician's License B Examination and the Commonwealth of Massachusetts Technician License D Examination.
4. Obtain and maintain all certificates and licenses required by the Apprentice Training Program.
5. Ability to perform related functions, including but not limited to:

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- a. understand and follow directions;
 - b. read and comprehend schematic diagrams, blue prints, wiring diagrams, the National Electric Code, and manuals;
 - c. knowledge of verbal and physical commands;
 - d. maintain and clean equipment;
 - e. ability to react quickly in unexpected emergencies; and,
 - f. complete familiarity with and adherence to safety procedures.
6. Initiative, motivation, and responsibility; and
7. Ability to do the following work with others.
In order to perform these essential job functions, all apprentices must have spatial aptitude, motor coordination and manual dexterity, as well as the ability to:
 - a. Work requiring full time and overtime hours outdoors in all types of weather;
 - b. Get to and from work at job sites anywhere within the geographical area that this apprenticeship program covers;
 - c. Be punctual and dependable;
 - d. Take orders, work well and in harmony with other trades people, and be respectful;
 - e. Communicate through hand signals with others;
 - f. Sit, stand, lift and/or carry for 10 hours or more per day;
 - g. Work in enclosed spaces for significant periods of time;
 - h. Grasp and manipulate small and large tools, equipment and controls;
 - i. Be able to pass state and federally mandated physical and drug screen, and any drug testing program required by contractors or the Apprenticeship Program.