

YORK TECHNICAL COLLEGE

TECHNICAL STANDARDS FOR RESIDENTIAL/COMMERCIAL WIRING RELATED PROGRAMS  
ESSENTIAL FUNCTIONS OF A RESIDENTIAL/COMMERCIAL WIRING TECHNICIAN:

PHYSICAL ATTRIBUTES:

1. Possess light to medium physical strength.
2. Be able to climb, work at heights from ladders and scaffolds, and maintain body balance.
3. Maintain good vision, either naturally or with correction.
4. Have good color vision.
5. Reach for, handle, and grasp wires and hand tools.
6. Bend, crouch, and work in small, confined areas.
7. Work overhead.
8. Lift and carry objects weighing up to fifty (50) pounds.
9. Be able to stand, squat, and stretch for long periods of time.
10. Be able to work in awkward positions.
11. Work thirty-five (35) to forty (40) hours per week.
12. Be able to use various types of hand tools and test equipment.
13. Be able to wear and work in gloves, hard hats, safety glasses, and steel-toed boots.
14. Be able to work indoors and outdoors in all types of weather and temperatures.

MENTAL ATTRIBUTES:

1. Use logical, step-by-step procedures.
2. Perform arithmetic operations quickly and accurately.
3. Understand and apply principles of electrical theory and codes.
4. Read blueprints and visualize objects in three-dimensions.
5. Make decisions based on personal judgment and/or verifiable criteria.
6. Stay focused on the task at hand.
7. Have a good memory.

JOB DUTIES:

1. Plan installations.
2. Read, interpret, and follow specifications and local electrical codes.
3. Prepare sketches showing the location of wiring and equipment.
4. Install electrical cable assemblies, boxes, conduits, switches, relays, circuit breakers, grounding conductors, panels, etc.
5. Pull wires through conduits.
6. Make various wire terminations and splices.
7. Troubleshoot and repair defective circuits and equipment.
8. Refer to and use wiring diagrams and service manuals.
9. Operate the following types of test equipment:
  - a. Ammeters
  - b. Voltmeters (AC and DC)
  - c. Ohmmeters
  - d. Digital Multimeters
  - e. Etc.
10. Be able to use the following hand and power tools:
  - a. Screwdrivers
  - b. Pliers
  - c. Diagonal Cutters
  - d. Wire Strippers
  - e. Hammer
  - f. Chisel
  - g. Tap and Die Set
  - h. Conduit Bender
  - i. Pipe Threader
  - j. Hand Drill
  - k. Hack Saw

- l. Circular Saw
- m. Etc.

Any student who feels s/he may need an accommodation based on the impact of a disability should contact the Special Resources Office (SRO) at 803-327-8007, located in the Student Services Building within the Counseling and Support Services Area. The SRO coordinates reasonable accommodations for students who self-identify their documented disability.