

YORK TECHNICAL COLLEGE

TECHNICAL STANDARDS FOR **INDUSTRIAL ELECTRICITY/ELECTRONICS TECHNOLOGY** RELATED PROGRAMS ESSENTIAL FUNCTIONS OF AN **ELECTRICITY/ELECTRONICS TECHNICIAN**:

1. Plan installations
2. Interpret specifications and electrical codes
3. Prepare electrical sketches
4. Install electrical and electronics devices, etc.
5. Make various wire terminations
6. Troubleshoot and repair equipment
7. Use wiring diagrams and service manuals
8. Install, program, and troubleshoot PLC, AC and DC motor devices
9. Operate test equipment
10. Use electrical hand tools

MINIMUM QUALIFICATIONS NECESSARY TO PERFORM ESSENTIAL FUNCTIONS OF AN ELECTRICITY/ELECTRONICS MECHANIC TECHNICIAN

PHYSICAL STRENGTH: Must possess light to medium physical strength.

MOBILITY: Must be able to climb, work at heights from ladders and scaffolds, and to maintain body balance.

VISION: Must maintain good vision, either naturally or with correction.

COLOR VISION: Must have good color vision.

REACHER: Must be able to reach for, handle and grasp wires and hand tools.

MANEUVER: Must be able to bend, crouch, and work in small, confined areas and overhead.

LIFT: Must be able to lift and carry objects weighing up to 50 pounds.

ENDURANCE: Must be able to stand, squat, and stretch for long periods of time.

POSITIONS: Must be able to work in awkward positions.

WORK TIME: Must be able to work 35 to 40 hours per week, with some overtime and rotating shifts.

SAFETY: Must be able to wear and work in gloves, hard hats, safety glasses, and steel toe work boots.

WORK CONDITIONS: Must be able to work indoors and outdoors in all types of weather and temperatures.

INSTRUMENTS: Must be able to operate the following types of test equipment: ammeters, voltmeters, ohmmeters, oscilloscopes, frequency counters, digital multi-meters, etc.

HAND TOOLS: Must be able to use the following hand and power tools: screwdrivers, pliers, diagonal cutters, wire strippers, hammer, chisel, tap and die set, hack saw, conduit bender, pipe threader, soldering iron, hand drill, hack saw, circular saw, etc.

PROCEDURES: Must be able to use logical step-by-step procedures.

MATHEMATICAL: Must be able to perform arithmetic operations quickly and accurately.

PRINCIPLES: Must be able to understand and apply principles quickly and accurately.

GRAPHICS: Must be able to read blueprints and visualize objects in three-dimensions.

DECISIONS: Must be able to make decisions based on personal judgment and/or verifiable criteria.

CONCENTRATION: Must be able to stay focused on the task at hand.

MEMORY: Must have a good memory.

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.