

YORK TECHNICAL COLLEGE

TECHNICAL STANDARDS FOR **ELECTRONICS ENGINEERING TECHNOLOGY** RELATED PROGRAMS

ESSENTIAL FUNCTIONS OF AN **ELECTRONICS ENGINEERING TECHNICIAN**:

1. Demonstrate knowledge of:
 - a. Mathematics
 - b. Communications, both oral and written
 - c. Physics
2. Electronics design and utilization
3. Communications Electronics
4. Digital and microprocessors
5. Instrumentation
6. Troubleshooting

MINIMUM QUALIFICATIONS NECESSARY TO PERFORM ESSENTIAL FUNCTIONS OF AN ELECTRONICS ENGINEERING TECHNICIAN

PHYSICAL STRENGTH: Must possess light physical strength.

EQUIPMENT: Must be able to build or set up equipment.

EXPERIMENTS: Must be able to prepare experiments.

CALCULATIONS: Must be able to make prototype versions of newly designed equipment.

PROTOTYPES: Must be able to make prototype versions of newly designed equipment.

DESIGN: Must be able to assist in routine design work.

TESTING: Must be able to devise and run tests to ensure product quality.

EFFICIENCY: Must be able to study ways to improve manufacturing efficiency.

SUPERVISION: Must be able to supervise production workers.

FIELD REPRESENTATIVE: Must be able to serve as field representatives of manufacturers, retailers, or wholesalers.

INSTALLATION: Must be able to install, operate and maintain complex technical equipment.

MANUALS: Must be able to write repair or operating manuals.

EQUIPMENT OPERATION: Must be able to operate the following types of equipment: measuring and diagnostic devices, sketches, diagrams, layouts, drawings, computer terminals, calculators, graphs, machine tools, engineering specifications, stop watches, motion picture cameras and electrical recorders.

WORK CHANGES: Must be able to perform duties that change frequently.

PROJECT ACTIVITY: Must be able to plan and direct an entire activity.

JUDGEMENT: Must be able to make decisions using personal judgment.

STANDARDS: Must be able to make decisions using standards that can be checked or measured.

PRECISE LIMITS: Must be able to work within precise limits or standards of accuracy.

WORK RELATIONS: Must be able to work well with others.

PHYSICAL CHARACTERISTICS: Must be physically able to: handle, reach, feel objects and see well, naturally or with correction, including color vision.

Students not capable of meeting these requirements or are capable of meeting these requirements with an accommodation are asked to contact their division office to arrange an appointment to talk with the program manager.