

YORK TECHNICAL COLLEGE

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

ESSENTIAL FUNCTIONS OF A STUDENT **COMPUTER ENGINEERING** TECHNICIAN:

1. Demonstrate knowledge of:
 - a. Mathematics
 - b. Communications, both oral and written
 - c. Physics
2. Electronics design and utilization
3. Computer programming techniques
4. Digital and Microprocessors
5. Instrumentation
6. Trouble shooting

MINIMUM QUALIFICATIONS NECESSARY TO PERFORM ESSENTIAL FUNCTIONS OF A COMPUTER ENGINEERING TECHNICIAN

PHYSICAL STRENGTH: The student must possess light physical strength.

DIAGNOSTIC PROGRAMS: The student must be able to run special diagnostic programs through computer equipment to help pinpoint problems.

EQUIPMENT: The student must be able to consult with the supervisor to plan layout of equipment.

INSTALLATION: The student must be able to install equipment according to manufacturer's specifications.

TROUBLE SHOOTING: The student must be able to repair equipment and instruct other on service and repair.

CUSTOMER PREPARATION: The student must be able to prepare machines for customer use.

SERVICE TECHNIQUES: Must be able to keep maintenance records and repair reports.

INVENTORY: Must be able to maintain inventory of parts.

PROCUREMENT: Must be able to order repair parts and selling supplies.

CUSTOMER ASSISTANCE: Must be able to advise customers concerning operation, maintenance and programming.

EQUIPMENT OPERATION: Must be able to operate the following types of equipment: voltmeters, needle-nose pliers, ohmmeters, oscilloscopes, wire strippers, soldering equipment, hand tools, computers, and printers.

COMPUTER FUNCTIONS: Must be able to understand computer functions and number systems.

TESTING: Must be able to operate test equipment.

SCHEMATIC DIAGRAMS: Must be able to read and visualize circuitry from the schematic diagrams.

HANDBOOKS: Must be able to interpret technical handbooks.

HAND TOOLS: Must be able to use hand tools.

PHYSICAL CHARACTERISTICS: Must be physically able to: hear normally, naturally or with correction; have good close vision and color perception; have good manual and finger dexterity; and lift equipment weighing up to 60 pounds.

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.