

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.

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.