

# HERZING

## DIPLOMA IN ELECTRONICS TECHNOLOGY (DET)

### PROGRAM DESCRIPTION

This program is designed to provide students with the knowledge and skills to test, install, repair, configure, manage, and maintain a wide range of electronic devices, systems, and services. The program focuses on fundamental skills that ground their ability to broaden their knowledge of electronics in a competitive employment environment.

### PROGRAM OBJECTIVES

Upon completion of this program students should be able to:

1. Demonstrate the ability to utilize a complete range of electrical and electronic equipment to apply industry standard tests and measurements to build, test, and troubleshoot electrical circuits and systems.
2. Demonstrate the ability to describe and apply fundamental concepts of measurement and electronic theory to solve computer, communication, and electronic system problems.
3. Demonstrate the ability to clearly communicate concise and reasoned lab reports delineating material needs and costs in the field of electronics.
4. Demonstrate the ability to pass industry-recognized certification examinations in the computer, communications, and electronics industries.

### POTENTIAL JOB POSITION TITLES

Potential entry-level job position titles include robotics and industrial control technician, TV and radio broadcast engineer, computer service technician, biomedical electronics technician, electronics technician, field technician, office automation technician, R & D technician, technical representative, network technician, bench technician, service manager, technical support administrator, plant maintenance manager.

### PROGRAM CONTENT

A minimum of 50.00 semester credit hours is required for graduation.

### REQUIRED COURSES

All courses, 48.00 semester credit hours, are required.

Course Number	Course Name	Prerequisite	Credit Hours
ET 106	Basic DC Electricity	MA 090 (or test-out)	4.00
ET 107	AC Electrical Components	ET 106	4.00
ET 119	Electronics Fabrication Laboratory	None	4.00
ET 208	Transistor and Microchip Technology	ET 106	4.00
ET 209	Advanced Transistor and Microchip Technology	ET 208	4.00
ET 232	Digital Electronics	ET 209	4.00
ET 236	Modulation and Propagation for Communications	ET 209	4.00
ET 237	Applied Telecommunications and Fiber Optics	ET 236	4.00
ET 238	Industrial Controls and Motors	ET 209 or ET 272	4.00
IS 102	Computers and Application Software	None	4.00
IS 112	Computer Networks	IS 102	4.00
IS 185	Computer Architecture and Troubleshooting I	None	4.00

## PERSONAL AND PROFESSIONAL DEVELOPMENT COURSES

2.00 semester credit hours are required.

Course Number	Course Name	Prerequisite	Credit Hours
PD 121	Professional Development I	None	1.00
PD 202	Professional Development II	None	1.00

*For more information about our graduation rates, the median debt of students who completed the program, and other important information, please visit our website at <http://www.herzing.edu/career-programs/undergraduate-degrees/technology/computer-electronics-and-telecommunications-technology>*