Workforce Career Certification in
Industrial Maintenance IT

Employability Skills Training
Professional Work Ethics .........................48 hours
Microcomputer Applications ......................48 hours
Word Processing......................................48 hours
Math & Measurement.................................16 hours
Safety & Print Reading...............................32 hours

Pathway Classes
Intro to Electricity.................................48 hours
Program Logic Controllers......................48 hours
Hydraulics and Pneumatics......................48 hours
AC/DC Circuits for Electrical...................60 hours

Potential Certifications
Career Readiness Certification, Workforce Career
Employability Skills Certification, IC3 Certification,
Microsoft Office Specialist Certification, Skills USA
Employability, Skills USA Customer Service, Service
Skills, and Workforce Career Certification in
Industrial Maintenance IT

The IT Industrial Maintenance Certificate provides a
solid foundation for success in the IT maintenance
occupation and the parallel Associate Degree at NEMC

BOT 1133—Microcomputer Applications.
This course will introduce an operating system and word processing, spreadsheet, database management, and presentation
software applications. Lecture/lab.

BOT 1213—Professional Development.
This course emphasizes an awareness of interpersonal skills essential for job success. Three hours lecture.

BOT 1143- Word Processing
This course focuses on production of documents using word processing functions. Production with accuracy is stressed, and
practice is given through a variety of documents for skill building. Lecture/lab.

IMM 1111—Industrial Maintenance Safety. General safety practices, personal safety,
Electrical safety practices, and power equipment safety.

IMM 1121—Industrial Maintenance Math and Measurement.
Mathematical and measurement procedures and instruments related to industrial maintenance.

IMM 1131—Industrial Maintenance Blueprint.
Blueprints, schematics, and plans used in industrial maintenance including instruction in nomenclature, different views, and
symbols and notations.

IMM 1314—Principles of Hydraulics and Pneumatics. Instruction in basic principles of hydraulics and pneumatics and the
inspection, maintenance, and repair of hydraulic and pneumatic systems.

ELT 1193—Introduction to Electricity. This is a basic course designed to provide fundamental skills associated with all
electrical courses. It includes safety, basic tools, special tools, equipment, and introduction to simple AC and DC circuits.
Lecture with laboratory demonstrations.

ELT 2613—Programmable Logic Controllers.
This course provides instruction and practice in the use of programmable logic controllers (PLC’s) in modern industrial
settings. This course includes instruction in the operating principles of PLC’s and practice in the programming, installation,
and maintenance of PLC’s. Two hours lecture and two hours laboratory.

EET 1114—DC Circuits and EET 1123—AC Circuits (combined).
This course is designed for students to know the principles and theories associated with DC circuits. This course includes the
study of electrical circuits, laws and formulae, and the use of test equipment to analyze DC circuits. Two hours lecture and four
hours laboratory. This course is designed to provide students with the principles and theories associated with AC circuits. This
course includes the study of electrical circuits, laws and formulae, and the use of test equipment to analyze AC circuits. Two
hours lecture and two hours laboratory.
Career Possibilities in Industrial Maintenance Information Technology Certification

- Common Core/Adult Basic Education
  - Service and Computer Skills Development
    - GED classes
    - 6 college credits

- Certificate of Technical Studies
  - 12 college credits
  - I-BEST program
  - Earn 4 certifications

- Associates Degree
  - Electrical Technology
  - Industrial Maintenance Technology
  - Machine Tool and Die Technology

- Bachelors Degree
  - University of Mississippi
  - Mississippi State University
  - Blue Mountain College

Mississippi’s drop-outs earn on average about $4,665 less annually than do high school graduates.

  Office Assistant
  Avg. Salary: $23,000.00

  Machinist
  Avg. Salary: $31,500.00

  Industrial Maintenance Technician
  Avg. Salary: $36,000.00

  Industrial Maintenance Administrator
  Avg. Salary: $59,000.00