

MANUFACTURING TECHNOLOGY

Mechanical Technician

(CIP 15.0805)

Level II Certificate

This certificate is designed to give students a technical-level specialized career tract option in the areas of mechanical maintenance. The program prepares individuals to apply basic engineering technology principles, mechatronics, and other technical skills in support of maintenance of mechanical equipment used in many industries; including power generation, chemical processing, manufacturing, and others.

This certificate transfers into the Associate of Applied Science degree in Manufacturing Technology. The certificate may also be used as an enhancement to other related degrees, including Nuclear Power Technology and Process Technology, by providing students additional skills to increase more flexibility in their employment options.

College Readiness Courses (if needed)

Semester I

INMT 1305	Introduction to Industrial Maintenance
INMT 2303	Pumps, Compressors, and Mechanical Drives
WLDG 1428	Introduction to Shielded Metal Arc Welding (SMAW)
QCTC 1446	Testing and Inspection Systems
MATH 1314	College Algebra or
MATH 2412	Pre-Calculus Math

Semester II

HYDR 1450	Hydraulics, Fabrication and Repair
PTAC 1432	Process Instrumentation I
SPCH 1315	Public Speaking
MCHN 2403	Fundamentals of Computer Numerical Controlled (CNC) Machine Controls
INMT 1491	Special Topics in Manufacturing Technology/Technician (Capstone Course)

Total Semester Hours: 36 - 37