MANUFACTURING TECHNOLOGY
Associates of Applied Science
(CIP 15.0613)

TRACK B: Instrumentation and Electrical Technician Specialty

The **Instrumentation and** Electrical Technician curriculum includes the study of AC/DC Motor Control and advanced instrumentation. Graduates are prepared for entry-level work as technicians in the maintenance and repair of the instrumentation used in automation included in manufacturing, production, and power generation. Graduates are prepared for entry-level work as technicians in the maintenance of electrical systems and processes instrumentation.

College Readiness Courses (if needed)

Semester I	
INMT 1305	Introduction to Industrial Maintenance
INMT 2303	Pumps, Compressors, and Mechanical Drives
CETT 1409	DC-AC Circuits
INTC 1350	Digital Measurement and Controls
MATH 1314	College Algebra

Semester II	
HYDR 1450	Hydraulics, Fabrication and Repair
PTAC 1432	Process Instrumentation I
INMT 1491	Special Topics in Manufacturing Technology/Technician
SPCH 1315	Public Speaking

Semester III	
ELMT 2437	Electronic Troubleshooting, Service, and Repair
ENGL 1301	Composition I
Humanities/Fine Arts from the AAS degree General Education Course List	
Social/Behavioral Sciences from the AAS General Education Course List	
QCTC 1446	Testing and Inspection Systems

Semester IV	
ELMT 2441	Electromechanical Systems
PTAC 2436	Process Instrumentation II (Capstone Course)
INTC 1457	AC/DC Motor Control or
INMT 1480	Cooperative Education – Manufacturing Technology/Technician (Requires Program Director Approval)

Total Semester Hours – 60