



**NORTHERN
PENNSYLVANIA
REGIONAL COLLEGE**

**Advanced Industrial Maintenance
Technology Skill Set
19 Credit Hours**

Program Purpose

The Advanced Industrial Maintenance Technology Skill Set provides students the opportunity to earn a short-term stackable benchmark credential through a subset of courses within the Associate in Applied Science in Industrial Maintenance Technology. Students who successfully complete an Industrial Maintenance Technology Skill Set may choose to continue their studies or pursue entry-level employment.

Program Goals

Students who successfully complete the program will have competencies and skills to:

1. Use testing and measuring instruments common to metrology, electrical, hydraulics, pneumatics, programmable logic controllers (PLC), robotic, and high voltage industrial systems to acquire data and troubleshoot essential system failures
2. Evaluate electrical, hydraulic, pneumatic, PLC, robotic, and high voltage systems and processes
3. Implement hardware and software components common to electrical, hydraulic, pneumatic, PLC, robotic, and high voltage systems; and
4. Demonstrate knowledge of and ability to apply safety and quality assurance standards, processes, and practices employed within industrial settings.

Advanced Industrial Technology Skill Set (19 credit hours)		Credit Hours	Prerequisite
IND 100	Industrial Safety	3	
IND 120	Fundamentals of Electricity and Electronics	4	
IMT 250	High Voltage Industrial Systems	2	IND 120
IMT 265	PLC and Robotics	4	IND 120
IND 115	Metrology and Measuring Instruments	3	
IND 140	Hydraulics and Pneumatics	3	