PROFESSIONAL DEVELOPMENT

DESIGNED FOR NEARLY ANY OPERATOR OR TECHNICIAN, the Industrial Manufacturing Technician (IMT) program emphasizes foundational skills for a broad range of manufacturing roles. Technical competency development is combined with communication, teamwork, and other business skills to train a well-rounded apprentice. The IMT registered apprenticeship provides new or under-skilled manufacturing workers with a robust and diverse skill set. Training prepares employees for more technically advanced roles and for specialized apprenticeship programs such as mechatronics.

IMT prepares production workers for the knowledge and competencies needed in the advanced manufacturing environment. The program trains workers to:

- Set up, operate, monitor, and control production equipment
- Gain knowledge of routine equipment maintenance
- Efficiently and safely manage raw materials/consumables
- Help improve manufacturing processes and schedules to meet customer requirements
- Understand manufacturing as a business system
- Understand inventory and material processes

PROGRAM FEATURES
- 18-month apprenticeship (24-month optional)
- 3,000 hours on-the-job equivalent
- Minimum 218 hours related training
- Manufacturing Technician Level 1 (MT1) Certification
- Technical, business, and skill development
INDUSTRIAL MANUFACTURING TECHNICIAN (IMT)

SAFETY, QUALITY, AND BUSINESS
- Industrial Safety Readiness Training
- Embracing a Climate of Motivation and Engagement
- Enhancing Your Emotional Intelligence
- Basic Math Review Fractions and Decimals
- Measurements and Converting Units
- Math for Quality
- Operations/Expressions
- Algebra/Linear Equations
- Intro to Quality/Lean
- Statistical Process Control (SPC)
- Understanding Supervisory Roles and Functions
- Engaging in Teamwork
- Communicating Respectfully in Workplace
- Responding to Conflict in the Workplace
- Creating a Culture of Continuous Improvement
- Implementing Time and Priority Management
- Applying Systematic Problem Solving
- Process Map/Value Stream Mapping
- Intro to DMAIC/Process Improvement
- Intro to 5S
- Business Acumen

TECHNICAL SKILLS
- Spatial Concepts for Blue Prints
- Pulleys, Levers, and Gears
- Gear Systems
- Gear Ratio/Torque
- Cranks
- Rack and Pinion
- Volume and Pressure
- Vacuum Force
- Fluid Power
- Thermal Conductivity
- Electromagnetic Force
- Electric Motors
- Generating Electricity
- Moving Charges
- Circuits and Wires
- Core Concepts of Chemistry
- Polymers
- Reactions
- Electrical Controls
- Mechanical Control
- Relays/Schematic Drawings
- System Flow Charts
- Operation Process

MIDAS

Penn College is approved by the PA Department of Labor & Industry as a sponsor of apprenticeship programs.

pct.edu/workforce

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Penn College operates on a nondiscriminatory basis.