

# Penn College Apprenticeship News

written by Lauri Moon | March 23, 2022

## New Apprenticeship Cohorts Forming

Penn College Apprenticeship Cohorts to begin in August 2022! Topics include:

- Industrial Manufacturing Technician (IMT)
- Intro-Mech
- Machining Fundamentals - CNC Machining Year 1
- Mechanical Components - Mechatronics Year 1
- Robotics - Year 1

**IMT** is 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.

**Intro-MECH** is a one-year introduction to mechatronics and maintenance aligned to NIMS Industrial Technology Maintenance (ITM) credentials. This course consists of four, 36-hour modules (144 hours total) each dedicated to one of four core mechatronics competencies: Mechanical Systems, Fluid Power-Pneumatics/Hydraulics, Electrical Systems and Electrical Controls (PLCs & VFDs).

**Machining Fundamentals** provides a fundamental knowledge of machining processes. Topics include machining technologies, shop safety, understanding drawings, layout work, hand tools, processes of drilling, lathes, grinding and milling machines. Emphasis is on production performance as a basic machinist or CNC operator who is training for advancement in the CNC precision machining field.

**Mechanical Components** provides apprenticed and associate technicians with fundamental knowledge of industrial mechanical systems and component topics considered necessary by subject matter experts for successful completion of routine mechanical maintenance and troubleshooting tasks on advanced manufacturing equipment.

**Robotics** provides maintenance technicians with robotic and automation systems repair responsibilities, the skillsets for troubleshooting the PLC interfaces comprising most modern manufacturing robotic/automation systems. This course strengthens existing PLC knowledge with emphasis on the control interface between PLC's and robotic automated process equipment.

Sessions attended via two-way live streaming internet at employer's site via the iris system. All sessions are recorded and available 24/7 through Penn College's Learning Management System so off-shift technicians may join in!

Note: Manufacturers are eligible for grant funding through Penn College's Modular Industry-Driven Apprenticeship Strategies (MIDAS) Grant that will cover a significant portion of the tuition. Anyone can participate at the full tuition.

For more information contact [apprenticeship@pct.edu](mailto:apprenticeship@pct.edu) or call 570.327.4775.