

Precision Machine Technology

Jackson Center

10-month program
4:30-9:30 Monday - Friday

Doug Cooley

Precision Machine Technology is a modern industry equipped authentic makerspace equipped facility With machinery industry. The program is designed to meet the current and emerging workforce needs in the advanced manufacturing industry. Students in the program will explore the production of metal and plastic products through manual and automated processes. Completers of this program will acquire a diverse and well- rounded set of academic and technical skills that will prepare them to enter the workforce and/or college. Students interested in pursuing a degree in engineering or a career in manufacturing will have the opportunity to gain an understanding of the capabilities and limitations of production machinery. This knowledge is valuable to aspiring engineers, manufacturing technologists, technicians or managers as they will possess a well-rounded understanding of the production process, allowing them to problem-solve and troubleshoot design challenges before they hit the production floor.

Related Job Titles

- CNC Operator
- Machinist
- Production Technician
- Welder
- Metal Fabricator
- Team Assembler

Skills You Will Learn

- Blueprint/Product Specification Reading and Interpretation
- Materials Selection/Metallurgy
- Quality Control/Precision Measurement
- CNC Programming (G&M Code)
- CNC machining (Mill/Lathe)
- Automation
- Manual Machining
- Digital Readout (DRO)
- MIG and TIG welding
- Product Design Production
- 3D CAD/CAM Design
- OSHA-10 Certification
- HAAS Mill Operator Certification
- AutoDesk Fusion 360 CAD/CAM

Career Ladder

CNC operators with several years of experience may advance to supervisory positions. They may also become programmers of CNC machining tools. All trade areas can continue their education to become:

- Manufacturing Engineer
- Industrial Engineer
- Mechanical Engineer
- Inspector
- Technical Sales

Continuing Education

Ocean County College
New Jersey Institute of Technology
Rutgers University
Rowan University
TCNJ
Drexel University