

Manufacturing Production Technician Program

Topic Areas

Topics covered include, but are not limited to the following:

Safety

- Customer needs
- Communication and leadership
- Team building and decision-making
- Safety organization
- Personal protective equipment
- Fire and electrical safety
- Hazardous material safety
- Aligned with OSHA 10

Quality Practices & Measurement

- Blueprint reading
- Basic measurement
- Precision measurement
- Dimensional gauging
- SPC and control charts
- Continuous improvement
- Inspections
- Audits
- Prevention and correction
- Documentation

Manufacturing Processes & Production

- Mechanical principles
- Materials and material testing
- Production processes
- Machining processes and tooling
- Procedures and process documentation
- Production planning and workflow
- Packaging and distribution

Maintenance Awareness

- Basic electrical circuits
- Pneumatic and hydraulic power systems
- Lubrication
- Bearing and couplings
- Belt and chain drives
- Machine control concepts
- Machine automation
- High vacuum systems
- Laser system