

Machine Tool Service Technician

CERTIFICATE COURSE

FMA



Certificate Course Outline

Get a leg up on entering the industry at this two-day seminar. The course provides a comprehensive overview of necessary skill sets for incoming technicians. Through interactive instruction, you'll gain knowledge and insight on key topics such as job site safety, electrical assessment, and understanding hydraulics and gases.

Learning Objectives

Safety on the Job Site

- Maintain PPE, read Material Safety Data Sheets (MSDS), identify Lockout/Tagout procedures, check egress, oversee rigging, and recognize safety standards for various systems, ensuring accountability for personal and others' safety.

Project Management and Customer Service

- Understand project timelines and responsibilities, prioritize tasks, recommend IT infrastructure, adapt to customer needs, and develop professionalism and communication skills.

Electrical

- Review basic electrical installation requirements, use a digital multimeter, identify OHM out wires, read electrical diagrams, and understand motor rotation and panel clearance.

Foundation/Flooring

- Read layout prints for optimal installation, use a transit level, understand foundation requirements, and identify joint and floor slab types.

Materials

- Identify grades and applications for steel, stainless steel, and aluminum, along with material traceability and steel section types.

Hydraulics

- Understand pump types, read hydraulics diagrams, identify key components, and compare flow and pressure characteristics.

Gases

- Review CFM, kg, bar, properties of nitrogen and oxygen, and read gas color coding.

Computer Numerical Controls

- Review PLCs, basic input/output structure, recognize servo motors, and comprehend G codes.

