

MFG101 – Manufacturing 101



This course covers various aspects of manufacturing, including safety devices, basic electricity, fluid power, and essential manufacturing components like controllers and motors. Participants will gain a comprehensive understanding of these fundamental concepts.

Target Group Mechanical technicians

Contents Participants in this **8-hour class** will learn about:

- Introduction to safety devices
- Basic electricity fundamentals
- Overview of sensor terminology
- Fluid power and properties of compressed air
- Advantages and disadvantages of pneumatics
- Introduction of other manufacturing components such as controllers and motors

Outcomes At the conclusion of the training, participants will be able to:

- Distinguish common safety devices used in manufacturing
- Explain the difference between voltage, current and resistance
- Identify common sensor types and functions
- Interpret properties of air and pneumatics
- Recognize and explain basic pneumatic components and their functions
- Summarize the use of common components used in manufacturing environments

Prerequisites General knowledge

Duration 8-hour