

# TRAINING OUTLINE

## Base Training:

Introduction to Manufacturing and Advanced Manufacturing (3 hours)

## Technical Training Topics:

Employers choose a minimum of 4 of the technical topics below for the learner to complete.

- Mathematics (3 hours)
- Work Documents (3.5 hours)
- Electrical Fundamentals (2.2 hours)
- Electrical Motor Controls (4.35 hours)
- Programmable Logic Controllers (2.5 hours)
- Mechanical Fundamentals (2.5 hours)
- Mechanical Power Transmissions (3.4 hours)
- Pneumatics (2.4 hours)
- Hydraulics (7 hours)
- Introduction to CNC Manufacturing (2 hours)
- Machining Toolbox (2.5 hours)
- Machining Materials (1.5 hours)
- CNC Machines – Mill and Lathe (5 hours)
- CNC Machining – Mill – Milling a Part (3.5 hours)
- CNC Machining – Lathe – Turning a Part (3.5 hours)

## Optional Training:

- Foundations and Employability Skills (5.5 hours)
- Lean and Continuous Improvement Skills (7 hours)

## Optional Training for Mentors:

- Mentorship (3 hours)