

**Course Title: CONVENTIONAL LATHE &
BASIC CNC MACHNING**

Course Code: MMF 101

Course Background / Summary:

This course introduces the concept of machining turning parts using a CNC lathe. This class addresses skills such as setting up a machining center and completing a production run. Topics include the tasks related to setup and operation, manufacturing process, how to work holding setups, and how cutting tools are assembled, measured, & loaded. Participants will also learn about the offsets related to cutting tools, including wear and geometry offsets. Participants will also learn how to run the first workpiece, get it to pass inspection, and learn the tasks related to running workpieces in production.

Course Objectives:

- Analyze the manufacturing process through the turning process.
- Perform turning operations using conventional turning machines.
- Prepare a worksheet for part production
- Analyze and perform machines variable and cutting parameter
- Identify the stock removal process machine's component and structure
- Understand related machining processes in the stock removal process
- Analyze standardization system for tools involved in the stock removal process

Target Audience:

- Machines Operators & Machines Suppliers
- Teaching staff (including vocational & technical teachers)
- Industrial Workers

Course Duration: 3 Days

Course Contents

1.0 Introduction to Lathe Machine (Theory)

2.0 Introduction to Lathe Machine (Practical)

3.0 Preparation of Process Sheet

4.0 Project Exercise