



Learn at BloQs

A brief guide to our
Engineering Machine Training



Engineering Training Example

'Get Started' Turning

This training is designed for experienced makers with no previous experience of Turning.

By undertaking this training, you will:

- Gain an understanding of the names and Functions of the main parts of a Lathe and associated tooling and accessories.
- Gain an insight into the setting and operation of a Lathe.
- Gain an understanding of Turning Health & Safety.



Personal Protective Clothing

- Safety Glasses
- Overalls
- Protective Footwear

Machine Safety:

- Identify Machine Parts
- Identify Machine controls
- Work Holding Device 3 jaw chuck
- Tool Setting Techniques
- Safe use of Machine Tools
- Demonstrate Start/ Stop Reverse of Machine spindle, Emergency Stop and Machine Guards

Tool Selection:

- Select H.S.S. Tool bit
- Discuss Tool Angles

Demonstrate Correct Tool Mounting Techniques, Speed and Feed Selection

- Setting tool height
- Selecting correct speeds for material

Using a Test Piece of material Member will practice Turning procedures such as:

- Facing to centre line
- Turning Diameters to Size
- Turning Diameters to Shoulder
- Turning Chamfers
- Parting Off
- Centre Drilling
- Drilling

Engineering Training Example

Advanced Turning

This training is designed for experienced makers who wish to improve their Turning skills.

By undertaking this training, you will:

- Gain an understanding of the names and Functions of the main parts of a Lathe and associated tooling and accessories.
- Gain an insight into the setting and operation of a Lathe.
- Gain an understanding of Turning Health & Safety.

Machine Safety:

- Tool Setting Techniques
- Work Holding Device 3 / 4 jaw chuck
- Work Holding Device face plate
- Safe use of Machine Tools
- Demonstrate Start/ Stop Reverse of Machine spindle, Emergency Stop and Machine Guards

Tool Selection:

- Select H.S.S. Tool bit
- Select Boring tips
- Screw cutting tips

Demonstrate Correct Tool Mounting Techniques, Speed and Feed Selection

- Setting correct speeds and feeds for screw cutting

Using a Test Piece of material Member will practice Turning procedures such as:

- Centre Drilling
- Drilling
- Boring
- Screw cutting internal threads
- Screw cutting external threads
- Knurling
- Undercutting



Engineering Training Example

'Get Started' Milling

This training is designed for experienced makers with no previous experience of Milling.

By undertaking this training, you will:

- Gain an understanding of the names and Functions of the main parts of a Mill and associated tooling and accessories.
- Gain an insight into the setting and operation of a Mill.
- Gain an understanding of Milling Health & Safety.



Personal Protective Clothing

- Safety Glasses
- Overalls
- Protective Footwear

Machine Safety:

- Identify Machine Parts
- Identify Machine controls
- Work Holding Device Fixed Jaw vice
- Tool Setting Techniques
- Safe use of Machine Tools
- Demonstrate Start / Stop Reverse of Machine spindle, Emergency Stop and Machine Guards

Tool Selection:

- Slot drills
- Endmills
- Drills

Demonstrate Correct Tool Mounting Techniques, Speed and Feed Selection

- Setting tool height
- Selecting correct speeds for material

Using a Test Piece of material Member will practice Turning procedures such as:

- Face milling
- End milling
- Slot milling
- Centre Drilling
- Drilling

Engineering Training Example

Advanced Milling

This training is designed for experienced makers who wish to improve their Milling skills.

By undertaking this training, you will:

- Gain an understanding of the names and Functions of the main parts of a Mill and associated tooling and accessories.
- Gain an insight into the setting and operation of a Mill.
- Gain an understanding of Milling Health & Safety.



Machine Safety:

- Datum Setting
- Setting vice with DTI Tool Setting Techniques
- Work Holding Devices, direct to table
- Work Holding Device angle plate
- Head tilting
- Resetting 0 position of head
- Safe use of Machine Tools
- Demonstrate Start / Stop Reverse of Machine spindle, Emergency Stop and Machine Guards

Tool Selection:

- Slot drills
- Endmills
- Drills
- Taps
- Boring head

Demonstrate Correct Tool Mounting Techniques, Speed and Feed Selection

- Setting correct speeds and feeds for conventional / climb milling

Using a Test Piece of material Member will practice Turning procedures such as:

- Centre Drilling
- Drilling
- Boring
- Conventional / climb milling
- Tapping
- Boring