



Overview of the manual Turning course

The contents of the course covered over a 4 day cycle, including a mix of classroom and workshop days. Depending on the outcome of a Training Needs Analysis (TNA); attendees do not need to have completed the previous course prior to attending the course being considered.

Basic

- Machine operation and safety
- Basic cutting tool application
- Turning speed calculations
- Turning operations
 - External diameters
 - Facing
 - Drilling
 - Tapping
- Coolants and cutting fluids

Intermediate

- Machine operation and safety
- Indexable tip tool design and use.
- Speed and feed calculations
- Turning operations
 - Boring
 - Screw cutting
 - Grooving and parting off
 - Knurling

Advanced

- Machine operation and safety
- BS ISO EN 286-2 limits and fits
- Face plate calculations
- Face plate uses
- Taper turning by tailstock offsetting
- Special thread screw cutting
- Use of steadies and rests