

LEVEL 3 ENGINEERING APPRENTICESHIP MACHINING ACTIVITY 1

**Your preparation guide to get you
ready for September**



L3 Apprentice Engineering Technician

Machining Standard



Welcome to your L3 Diploma as an Advanced Machinist Technician

- If you are joining the course as a new start, this is a 4-year program from inception to completion (2 years at L2 and 2 years at L3). If you are joining after a L2 program it is 2 years for the L3 element.
- The Course is the next step up from a L2 Operator or Technician Qualification.
- If you have completed the L2 Operator Course, you may be required to complete up to 4 NVQ 'Bridging Units' to bring you up to the L3 Advanced Machining Technician Standard entry requirements.
- This course will help you to improve your working knowledge of machining theory, as well as improve your practical skills and experience in a workshop environment.
- The course is made up of 10 NVQ elements (achieved through your workplace) and 8 Technical elements (achieved through the College day release program).
- You will also be expected to achieve GCSE/Functional Skills to at least a L2 standard if you are required to.

Technical Units Studied as a L3 Machinist Technician

Engineering and Environmental Health and Safety (core)

Engineering Communications (core)

Properties and Applications of Engineering Materials (core)

Engineering Mathematics (core)

Advanced Milling

Advanced Turning

Computer Numerical Control (CNC) Programming/Machining

Engineering Organisational Efficiency and Improvement

The 4 Core Units are Mandatory and must be completed.

The 4 additional Units have been selected to best match the New Standards for Machining.

You will cover a variety of subjects that will test your abilities and prepare you for life as a qualified Machinist Technician, as well as provide options for a move into Higher Education should you choose to do so (HNC, Fd eng)

The NVQ element is specifically tailored to your own workplace and will cover aspects of your job that you yourself are involved in. The individual units are agreed between you and your company and are delivered and supported by a dedicated workplace assessor.

This will be different for different companies and is designed to give you the in-depth knowledge and skills that will enable you to successfully carry out your job role to the best of your ability, as well as contributing to the New Standards L3 Technician Machinist Apprentice program.

Examples of NVQ Units Studied in the Workplace
Complying with statutory regulations and organisational safety requirements
Using and interpreting engineering data and documentation
Working efficiently and effectively in advanced manufacturing and engineering
Setting centre lathes
Machining components using centre lathes
Setting milling machines
Machining components using milling machines
Machining components using electro-discharge machines
Setting grinding machines
Machining components using grinding machines

The NVQ element has both written and practical assessments that are undertaken during the two years that this program typically runs for.

You can prepare for this L2/L3 Machinist Technician course by:

- Speaking with your current Assessor about the contents and delivery of this course
- Utilising useful Web based content that is relevant to Advanced Manual and CNC machining techniques
- Read “Engineering Technologies” by Michael Tooley
- Contact the BASE team at The College on 01202 205205
- <https://www.thecollege.co.uk/about-us/contact-us>
- <https://www.thecollege.co.uk/employers/apprenticeship-solutions>

Main sites at:

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