



**ENGINEERING
MANUFACTURING
TECHNICIAN
Apprenticeship**

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This occupation is found in large and small engineering and manufacturing organisations providing products and services throughout a wide range of sectors, such as Automotive, Aerospace/Airworthiness, Chemical Processing, Land Systems, Marine, Maritime Defence, Materials Manufacturers and their respective supply chains.

Key Information

Level	4
Duration	Typically 42 months
Entry requirements	- 16 years or over. - Please contact our Apprenticeship team for further entry requirements.
Delivery	A minimum of 30 hours of on the job training at work place, 2 days per week including a day to study at our Uxbridge campus
Occupation summary	The broad purpose of the occupation is to provide specialist technical support for engineers, so that organisations can develop, produce or test new/existing products, processes, or procedures to meet a customer specification in terms of quality, cost and delivery, as efficiently and effectively as possible.
Typical job titles	Typical job titles include Manufacturing Engineer Quality, Manufacturing Production Engineer, Manufacturing Procurement Engineer, Quality Engineer, Costing Engineer, Test and Commissioning Engineer, Installation Engineer, Process Engineer, Production Support Engineer.
Professional Recognition	IET / Eng Tech IMechE / Eng Tech Royal Aeronautical Society / Eng Tech

Choose a Trusted Provider

 <p>We are a top provider in London with consistently high success rates</p>	 <p>We are the largest college group providers of apprenticeships in west London</p>
 <p>We work with major companies including British Airways, Brunel University London & Menzies etc.</p>	 <p>Most of our apprentices secure employment at the end of their apprenticeship</p>
<p>Discounted travel with an Apprentice Oyster card</p>	<p>Discounts on shopping with an NUS Apprentice Extra Card</p>

Employers involved in creating this standard:

GKN Aerospace, Jaguar Land Rover cars, BAE Systems, Toyota UK, GTA England, Leonardo Helicopters, British Plastics Federation, JCB, Siemens, Sheffield Forgemaster, Liberty Speciality Steels.

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Apprenticeships & Skills
 Harrow, Richmond & Uxbridge Colleges

Qualifications

English and maths qualifications

Apprentices without level 2 English and maths will need to achieve this level prior to taking the End-Point Assessment. For those with an education, health and care plan or a legacy statement, the apprenticeship's English and maths minimum requirement is Entry Level 3. A British Sign Language (BSL) qualification is an alternative to the English qualification for those whose primary language is BSL.

Other qualifications

Mandatory qualifications applicable to all sectors (for both aerospace and non-aerospace apprentices)

Mandatory qualification 1: Pearson BTEC Level 4 Higher National Certificate in Engineering or Pearson BTEC Level 4 Higher National Certificate in Manufacturing Operations

Level of qualification: 4

Additional mandatory qualifications applicable only to Aerospace apprentices to meet Civil Aviation (CAA) requirements

Aerospace mandatory qualification 1: EAL Level 2 Diploma in Aerospace and Aviation Engineering (Foundation Competence)

Level of qualification: 2

Mandatory period of protected learning (only applicable to the Aerospace Sector)

To meet the requirements of Civil Aviation Authority (CAA) regulations all individuals trained against this standard must complete a period of mandatory protected training leading to successful achievement of the mandatory qualification 601/7289/7 EAL Level 2 Diploma in Aerospace and Aviation Engineering (Foundation Competence)

Aerospace mandatory qualification 2: EAL Level 4 Diploma in Engineering and Advanced Manufacturing (Development Competence)

Sample occupation duties

Duty

Duty 1 - Ensure the safe and efficient performance of every production task in compliance with company procedures, approved engineering data and local Health and Safety requirements. Ensure Safe Systems of Work and risk assessments (assisting as necessary in the completion of risk assessments) are adhered to for engineering or manufacturing activities.

Duty 2 - Prepare product and process documentation by collecting, analysing, and summarising information and trends.

Knowledge

K1: Problem solving tools/techniques. Such as practical problem solving (PPS), root cause analysis (RCA) and process failure mode effects analysis (PFMEA).

K2: Effective communication techniques including listening, questioning and support of others.

Skills

S1 Read and extract relevant engineering and manufacturing related data and information (such as workplans/project plans, schedules, drawings, specifications, production data, quality reports, costing data, statistical information) drawing accurate conclusions and making informed decisions.

S2 Use project management tools, such as Strengths, Weaknesses, Opportunities, Threats (SWOT), stakeholder matrices, risk mapping, radar chart and summary risk profiles

Behaviour

B1: Champions the importance of adherence to the organisation's Environmental, Health and Safety management systems:- actively displays and promotes a safety first culture within the organisation.

B2: Operates in a systematic, proactive and transparent way.

Frequently Asked Questions

What is new apprenticeship standard?

Apprenticeships in England are changing. Because of government reforms, a new style of apprenticeships has been designed to meet the needs of employers, learners and providers.

How will I be assessed?

You will be assessed continually in knowledge, skills and behaviour areas at work. Towards the end of the apprenticeship, employers and providers will 'sign-off' the apprentice as ready for the end-point assessment (EPA).

Signing-off an apprentice indicates the employer and providers believe their knowledge, skills and behaviours are the level required to gain an apprenticeship. This sign-off is called the 'gateway'.

An end-point assessment (EPA) is a collection of assessments that offers confirmation of knowledge, skills and behaviours for a particular role. The EPA must be achieved before an apprenticeship certificate can be issued. The assessment organisation and the assessor must be independent of, and separate from the training provided by the provider and employer.

Do I already need to have a job to start an apprenticeship?

You should be working a minimum of 30 hours per week in a job. If you are unemployed, view our vacancies to apply for a job:

www.hruc.ac.uk/apprenticeships

Can I start an apprenticeship after Year 11?

Yes, you can! Young people in England must stay in education or training until they turn 18. If you're looking for a different option after Year 11, an apprenticeship could be the answer for you!

How much does an apprenticeship cost?

There is no cost for you to do an apprenticeship if you are 16 years old or over and you will be paid a wage.

[View our vacancies to apply](http://www.hruc.ac.uk/apprenticeships)

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Already working? Upskill!

Turn your job into an apprenticeship. Call us on **01895 853622 / 0208 909 6328** to get you started.