

LEVEL 3 ENGINEERING DESIGN AND DRAUGHTSPERSON APPRENTICESHIP

Subject Area

Engineering &
Science

Student Type

Students aged 16-18

Study Mode

Part Time

What is the course about?

Engineering design and draughtspersons produce designs and drawings for structures, piping, electrical systems, control and instrumentation systems and mechanical components used in industrial and commercial construction. Typically, jobholders work in a wide range of industries of national importance including power and water infrastructure, petrochemical, oil and gas, nuclear, food and drink processing.

Jobholders are based at office locations within project design teams and occasionally work at on-site locations. They are required to understand on-site hazards and health and safety requirements.

The jobholder must: Understand technical drawings and specifications and be able to create their own; identify factors likely to affect design decisions; produce CAD (computer aided design) models and engineering drawings and; be able to communicate design information to internal and external parties.

Why should I choose the course?

This apprenticeship standard is occupational competence for Electrical Design and Draughtsperson

Control and Instrumentation Design and Draughtsperson

Mechanical Design and Draughtsperson

Piping Design and Draughtsperson

Structural Design and Draughtsperson

What will I learn?

Core Skills

Work safely at all times, complying with relevant national and industry health and safety requirements

Work in accordance with company management systems, policies and procedures

Employ the appropriate use of computer based technology

Review and interpret technical information and requirements from different sources e.g. specifications, concepts, stakeholders



**Warrington
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College**

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Identify inaccuracies or discrepancies in engineering drawings and specifications and propose solutions

Core Technical Knowledge

Relevant national and industry health and safety, standards and legislation and those relevant to the specific disciplines, as appropriate

Company management systems, policies and procedures

Document management and change control

Engineering codes and standards

Core Behaviours

Comply with health and safety requirements and company policies and procedures at all times

Have a strong work ethic including attention to detail and commitment to completing the task in hand

Take personal responsibility for own work, set the right example for others and actively seek opportunities for quality improvement

Apply and uphold principles of ethics and sustainability

How is the apprenticeship delivered?

The apprenticeship is delivered over 48 months, and you will be fully supported by the college every step of the way. During your apprenticeship you will attend college one day per week, with the other four days spent with your employer. As an apprentice you will be allocated a tutor and an assessor, who will come out to visit you onsite.

What will the course lead on to?

This will lead to full time employment and could lead to HNC in engineering.

Are there any links with industry and university?

Engineering Technician (EngTech) in partnership with the appropriate institutions as shown below:

Institution of Mechanical Engineers (IMechE) (for piping and mechanical)

Institution of Structural Engineers (IStructE)

Institution of Engineering and Technology (IET) (for electrical and mechanical)

Institution of Engineering Designers (IED)

Professional registration is subject to candidates successfully completing this apprenticeship and undergoing professional review.

What support is available?



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You will be allocated a designated apprenticeship coach to guide you through your apprenticeship. We have a team of staff dedicated to providing learning support if required, as well as a Welfare Team that is on hand to offer guidance, support and help when needed.

Click here for learning support: <https://wvr.ac.uk/college-life/learning-support>

Why should I choose to study the course at Warrington & Vale Royal College?

Warrington & Vale Royal College has a long history of delivering bespoke, high-quality apprenticeships across a wide range of sectors. We take pride in our apprentices and ensure they leave us with the skills they need to forge a career in their chosen industry. We work with all manner of employers to ensure all parties' interests are met throughout the apprenticeship journey. We also have a dedicated apprenticeship matching service which matches your skills to a suitable apprenticeship employer.

What are the entry requirements?

Entry requirements for this apprenticeship programme are GCSE grades 9-4, or level 2 functional skills qualifications in English and maths. We will consider those who need to resit either their English or maths qualification, however those that need to resit both will not meet the entry requirements for this apprenticeship programme.

If you are required to resit either English or maths, you will be invited to undertake an initial assessment. If deemed suitable, you must be willing to achieve your level 2 English/maths qualification before the end of the apprenticeship programme as part of your study.

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