

## 1. Title of the certificate <sup>(en)</sup>



**City & Guilds Level 1 IVQ Certificate in Engineering Skills (1155-01)  
(500/5817/4)**

<sup>(1)</sup> In the original language

## 2. Translated title of the certificate <sup>(1)</sup>

<sup>(1)</sup> If applicable. This translation has no legal status.

## 3. Profile of skills and competences

A typical holder of the certificate is able to:

- Adopt and maintain safe working practices
- Carry out emergency procedures
- Carry out a risk assessment and prepare an accident report
- Use calculations to solve simple workshop problems
- Construct plane figures, and develop patterns
- Sketch and dimension simple orthographic projections, sectional and pictorial views
- Identify metals and compare their properties
- Explain the effect that material shape, and the position of force, has on deflection
- Explain the causes of rusting, and effects of cold working and heat treating plain carbon steels
- Choose the most suitable method of temperature measurement and appreciate expansion and contraction due to heat
- Identify equilibrium types and calculate forces, turning moments and centre of gravity
- Explain Ohm's law, current flow and the effects of current
- Use hand tools and sheet metal cutting and folding equipment
- Use the off hand grinding machine and the fixed drilling machine
- Read and respond to written material, find, gather, process and evaluate data
- Identify components and data from a wide range of sources
- Apply computer skills in engineering applications
- Construct and interpret graphs and charts and produce operation sheets
- Choose, maintain and use the most suitable marking out and measuring equipment
- Use templates
- Select and use a range of temporary and permanent methods of joining metals
- Carry out oxy-acetylene gas cutting.

## 4. Range of occupations accessible to the holder of the certificate <sup>(1)</sup>

- Electrical Engineering Technician
- Maintenance Technician.

*Note: the above are examples only, other occupations may also be accessible to holders of the certificate.*

<sup>(1)</sup> If applicable

### <sup>(1)</sup> Explanatory note

This document is designed to provide additional information about the specified certificate and does not have any legal status in itself. The format of the description is based on the following texts: Council Resolution 93/C 49/01 of 3 December 1992 on the transparency of qualifications, Council Resolution 96/C 224/04 of 15 July 1996 on the transparency of vocational training certificates, and Recommendation 2001/613/EC of the European Parliament and of the Council of 10 July 2001 on mobility within the Community for students, persons undergoing training, volunteers, teachers and trainers. More information available at: <http://europass.cedefop.eu.int>.

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## 5. Official basis of the certificate

<p><b>Name and status of the body awarding the certificate</b></p> <p>City &amp; Guilds 1 Giltspur Street London EC1A 9DD United Kingdom T +44 (0)20 7294 2800 F +44 (0)20 7294 2400 <a href="http://www.cityandguilds.com">www.cityandguilds.com</a></p> <p>City &amp; Guilds was established in 1878 as a registered charity (no. 312832) and received Royal Charter (RC117) in 1900.</p> <p>City &amp; Guilds is accredited as an awarding body by the Office of the Qualifications and Examinations Regulator (Ofqual) and the Scottish Qualifications Authority (SQA) to offer qualifications.</p>	<p><b>Name and status of the national/regional authority providing accreditation/recognition of the certificate</b></p> <p>Office of the Qualifications and Examinations Regulator (Ofqual) Spring Place Coventry Business Park Herald Avenue Coventry CV5 6UB England T +44 (0)300 303 3344 F +44 (0)300 303 3348 <a href="http://www.ofqual.gov.uk">www.ofqual.gov.uk</a></p>
<p><b>Level of the certificate (national or international)</b></p> <p>Level 1 – National Qualifications Framework of England, Wales and Northern Ireland (NQF)</p>	<p><b>Grading scale/Pass requirements</b></p> <p>Written assessments are graded 'Pass', 'Merit', 'Distinction' or 'Fail'.</p> <p>Practical assessments are graded 'Pass' or 'Fail'.</p> <p>The overall qualification is not graded. A certificate will only be awarded on successful completion of the required number of units.</p>
<p><b>Access to next level of education/training</b></p> <p>We consider the following options to be relevant progression routes from this qualification:</p> <ul style="list-style-type: none"> <li>• Level 2 IVQ Technician Certificate in Engineering (2565-01)</li> <li>• Level 2 IVQ Technician Certificate in Electrical and Electronic Engineering (8030-21)</li> <li>• Level 2 IVQ Diploma in Engineering (1155-02)</li> <li>• Employment.</li> </ul>	<p><b>International agreements</b></p>
<p><b>Legal basis</b></p> <p>Not applicable.</p>	

## 6. Officially recognised ways of acquiring the certificate

<p>This qualification can only be offered by an institution/provider ('centre') that has been approved by City &amp; Guilds and therefore meets its quality requirements for staff and centre resources and is subject to regular checks.</p> <p>The following assessment methods are used:</p> <ul style="list-style-type: none"> <li>• Ongoing assessments carried out by the centre</li> <li>• Final assessments:             <ul style="list-style-type: none"> <li>- written test set and marked by City &amp; Guilds</li> <li>- practical assessments set by City &amp; Guilds and marked by the centre.</li> </ul> </li> </ul> <p>All assessments are quality assured by City &amp; Guilds verifiers.</p> <p>The vocational education and training is a combination of classroom based and/or work based and/or realistic working environment based activities.</p> <p>The recommended Guided Learning Hours (GLHs) for this qualification are 300 hours.</p> <p><b>Entry requirements</b></p> <p>City &amp; Guilds exercises a policy of open access and does not set formal entry requirements for its qualifications. Centres are however required to ensure that learners are registered for a programme of study and examination at the appropriate level.</p> <p><b>More information (including a description of the national qualifications system) available at:</b> <a href="http://www.naric.org.uk">www.naric.org.uk</a>.</p> <p><b>National reference point:</b> <a href="http://www.uknlp.org.uk">www.uknlp.org.uk</a>.</p>
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