

1. Title of the certificate ^(en)



City & Guilds Level 5 IVQ Advanced Technician Diploma in Electrical and Electronic Engineering (Electrical Engineering) (8030-23) (500/5805/8)

⁽¹⁾ In the original language

2. Translated title of the certificate ⁽¹⁾

⁽¹⁾ If applicable. This translation has no legal status.

3. Profile of skills and competences

A typical holder of the certificate is able to:

- Solve a realistic engineering problem individually while displaying
 - effective planning, organisation and communication skills
 - an understanding of methods and techniques for product and process improvement
 - personal qualities such as creative ability, imagination, initiative and maturity
- Describe the fundamental aspects of circuit and network theory and put these concepts into practice
- Describe the principles of associated mathematics in the context of relevant engineering problems

plus one of the following areas:

(1) Distribution and utilisation of electrical energy

- Describe fundamental engineering principles which need to be considered for the correct planning, construction and maintenance of electrical installations.

(2) Generation and supply of electrical energy

- Describe fundamental engineering principles relating to the generation of electricity and its transmission on overhead and underground cables supplied via transformers.

(3) Electrical plant and equipment

- Describe in detail the construction, design and performance characteristics and industrial applications of electric motors and transformers
- Carry out advanced mathematical calculations relating to design and performance.

4. Range of occupations accessible to the holder of the certificate ⁽¹⁾

- Electrical Engineer
- Electrical Engineering Technician
- Electrician.

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

⁽¹⁾ If applicable

⁽¹⁾ 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>.

© European Communities 2002

5. Official basis of the certificate

<p>Name and status of the body awarding the certificate</p> <p>City & Guilds 1 Giltspur Street London EC1A 9DD United Kingdom T +44 (0)20 7294 2800 F +44 (0)20 7294 2400 www.cityandguilds.com</p> <p>City & Guilds was established in 1878 as a registered charity (no. 312832) and received Royal Charter (RC117) in 1900.</p> <p>City & 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>Name and status of the national/regional authority providing accreditation/recognition of the certificate</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 www.ofqual.gov.uk</p>
<p>Level of the certificate (national or international)</p> <p>Level 5 – National Qualifications Framework of England, Wales and Northern Ireland (NQF)</p>	<p>Grading scale/Pass requirements</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>Access to next level of education/training</p> <p>We consider the following options to be relevant progression routes from this qualification:</p> <ul style="list-style-type: none"> • Full Technological Diploma (FTD) • Engineering Council examinations • Higher/further education • Management qualifications • Employment. 	<p>International agreements</p>
<p>Legal basis</p> <p>Not applicable.</p>	

6. Officially recognised ways of acquiring the certificate

This qualification can only be offered by an institution/provider ('centre') that has been approved by City & Guilds and therefore meets its quality requirements for staff and centre resources and is subject to regular checks.

The following assessment methods are used:

- Ongoing assessments carried out by the centre
- Final assessments:
 - written test set and marked by City & Guilds
 - practical assessments set by City & Guilds and marked by the centre.

All assessments are quality assured by City & Guilds verifiers.

The vocational education and training is a combination of classroom based and/or work based and/or realistic working environment based activities.

The recommended Guided Learning Hours (GLHs) for this qualification are 600 hours.

Entry requirements

City & 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.

More information (including a description of the national qualifications system) available at: www.naric.org.uk.

National reference point: www.uknarp.org.uk.