Europass certificate supplement (*)

(version August 2014)

United Kingdom

1. Title of the certificate (en)

City & Guilds Level 4 Diploma in Electrical and Electronic Engineering (9209-02)

(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 design problems using magnetic circuit theory
- Analyse RLC circuits
- Analyse electrical systems when modelled as two-port networks
- Analyse three-phase circuits
- Solve the transient response of first-order circuits
- Explain a range of mathematical operations and analysis techniques required to solve engineering problems, including algebraic methods, trigonometric, calculus, and complex analysis methods

And has successfully completed nine of the following areas:

- **Quality assurance and control**
- **Human factors in the workplace**
- **Engineering planning and scheduling**
- **Statistical analysis for engineers**
- **Computer aided design for manufacture**
- **Data communication and networks**
- **Principles and operation of electrical machines**
- **Using electrical protection techniques for engineering operations**
- **Electrical services and installation**
- **Electrical supply and distribution**
- **Testing and measurement of electronic and electrical systems**
- **Programmable logic controllers**
- **Principles of analogue circuits**
- **Sequential and combinational logic circuits**
- **Microprocessor based systems**
- **Maintenance of engineering systems and equipment**
- **Engineering design**
- **Programming using C**
- **Planning and implementing change within businesses**
- **Personal and professional development**
- **Managing information and knowledge**
- **Engineering procurement**
- **Principles of composite materials**
- **Principles of composites manufacture**
- **Developing business improvement plans**

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

- Senior Technician
- Engineering Management

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

(1) If applicable

5. Official basis of the certificate

Name and status of the body awarding the certificate

City & Guilds
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London EC1A 9DD
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www.cityandguilds.com

City & Guilds was established in 1878 as a registered charity (no. 312832) and received Royal Charter (RC117) in 1900.

City & Guilds is accredited as an awarding body by the Office of the Qualifications and Examinations Regulator (Qfqual) and the Scottish Qualifications Authority (SQA) to offer qualifications.

Name and status of the national/regional authority providing accreditation/recognition of the certificate

The international engineering qualifications are a unique set of qualifications designed by City & Guilds mainly for international use.

They are subject to global quality assurance rules and regulations set by City & Guilds. These policies are based on the quality assurance practices which have been approved by Qfqual.

The Level 4 Diploma in Electrical and Electronic Engineering has been developed using the City & Guilds Level 4 Diploma in Electrical and Electronic Engineering (2875-40) as its source. The 2875-40 qualification is accredited at Level 4 of the Qualifications and Credit Framework.

Level of the certificate (national or international)

Level 4* – National Qualifications Framework of England, Wales and Northern Ireland (NQF)

**broad comparability*

Grading scale/Pass requirements

Units that make up the qualification are graded 'Pass', 'Credit', 'Distinction' or 'Fail'.

The overall qualification is not graded. A certificate will only be awarded on successful completion of the required number of units.

Access to next level of education/training
We consider the following options to be a relevant progression routes from this qualification:

- Level 5 Diploma in Electrical and Electronic Engineering (9209-12)
- ILM qualifications
- University
- Employment.

International agreements

Legal basis
Not applicable.

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:

- Written tests set and marked by City & Guilds
- Practical assessments set by City & Guilds and marked by the centre
- Practical assessments set and marked by the centre

All assessment practice is quality assured by City & Guilds verifiers.

A typical learner will study for 1200 hours to achieve this qualification, but the duration of the training will vary depending on optional units chosen.

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.uknrp.org.uk.

(*) 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.