

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



**City & Guilds Level 3 IVQ Technician Diploma in Construction (6165-20)  
(500/5795/9)**

<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:

- Describe and apply mathematical principles
- Describe scientific principles to the construction process with respect to: thermal studies, services (electrical, water supply and distribution), properties and performance of construction materials
- Define the mechanics used in the analysis and design of construction elements
- Produce construction drawings applying traditional and modern methods\*
- Describe surveying principles as applied to the construction industry, taking into account local conditions, current technology and practice
- Demonstrate construction technology in relation to both building and civil engineering\*
- Identify, procure and control the supply of resources both physical and human for a typical local domestic dwelling
- Develop alternative solutions to design and construction problems by the application of scientific, structural and economic principles to low rise structures

**plus any two from the following areas:**

### (1) Measurement

- Describe and apply standard principles and methods used in quantity surveying, bonus surveying and estimating.

### (2) Designing for Construction

- Describe activities and terminologies used in designing buildings
- Design buildings and structure for the construction industry\*.

### (3) Construction Mathematics

- Describe and apply the mathematical principles of structural analysis and civil engineering (geometry, algebra and matrices, trigonometry, calculus, statistics).

### (4) Structural Mechanics

- Develop the concepts of structural mechanism for the analysis of beams, columns, frameworks and retaining structures of a statically determinate nature
- Explain and apply the principles of two-dimensional stress systems.

\* applied to buildings not exceeding three storeys with a minimum area of 100m<sup>2</sup> and should include domestic, industrial, storage and business premises.

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

- Construction Operative.

Note: the above is an example 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 3 – 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 5 IVQ Advanced Technician Diploma in Construction (6165-30)</li> <li>• Engineering Council examinations</li> <li>• Higher/further education</li> <li>• Management qualifications</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 720 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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