

# **Level 4 Diploma in Software Development Methodologies (9628-01)**

**Version (3.0) December 2017**

**Qualification Handbook**

## Qualification at a glance

<b>Industry area</b>	IT Professional
<b>City &amp; Guilds number</b>	9628
<b>Age group</b>	16+
<b>Assessment</b>	Evolve online tests
<b>Approvals</b>	Approval application required. Please see <a href="http://www.cityandguilds.com">www.cityandguilds.com</a> for details.
<b>Registration and certification</b>	Registration and certification of this qualification is through the Walled Garden, and is subject to end dates.

Title and level	GLH	TQT	City & Guilds qualification number	Ofqual accreditation number
Level 4 Diploma in Software Development Methodologies	90	450	9628-01	603/0409/1

Version and date	Change detail	Section
2.0 Jan 2017	Assessment method changed.	Assessment
3.0 Dec 2017	Test specifications added	Assessment

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# 1 Introduction

This document tells you what you need to do to deliver the qualification:

Area	Description
Who is the qualification for?	This qualification is designed to support learners to develop a full range of underpinning knowledge that can be used in a variety of businesses and industries that demonstrate confidence and transferability in a Digital Technology Environment.
What does the qualification cover?	A Software Developer will typically be working as part of a larger team and the modules are designed to provide learners with the knowledge to enable them to interpret design documentation and specifications for which they will have responsibility as part of the elements of an overall project.
What opportunities for progression are there?	<p>This qualification is part of the Digital Industries Apprenticeship programme and are not offered as standalone products.</p> <p>On achieving this qualification the learner will have completed a section of the knowledge element as part of their apprenticeship journey.</p>
Who did we develop the qualification with?	It was developed in collaboration with employers, sector experts and training providers using the Standard as the baseline. The Standards have been created by The Tech Partnership and their Employer Groups for the specific areas. The qualification embodies the required learning for an apprentice to have the opportunity to successfully gain the relevant knowledge for their chosen career path in a Digital Technology environment.
Is it part of an apprenticeship framework or initiative?	Yes – 9648 Software Developer

## Structure

Learners must complete the single unit 401 to gain this qualification.

## Total Qualification Time

Total Qualification Time (TQT) is the number of notional hours which represents an estimate of the total amount of time that could reasonably be expected for a learner to achieve and demonstrate the achievement of the level of attainment necessary for the award of a qualification.

TQT is comprised of the following two elements:

- The number of hours which an awarding organisation has assigned to a qualification for Guided Learning, and
- an estimate of the number of hours a Learner will reasonably be likely to spend in preparation, study or any other form of participation in education or training, including assessment, which takes place as directed by - but, unlike Guided Learning, not under the Immediate Guidance or Supervision of - a lecturer, supervisor, tutor or other, appropriate provider of education or training.

Title and level	GLH	TQT
Level 4 Diploma in Software Development Methodologies	90	450

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## 2 Centre requirements

### Approval

Fast Track Approval is offered to existing City & Guilds Centres offering the SASE framework for the Advanced and/or Higher Level Apprenticeship for IT, Software, Web and Telecoms, or the SASW framework for the Apprenticeship and/or Higher Level Apprenticeship for IT, Software, Web and Telecoms through City & Guilds. See the separate document on our website that provides details of the Fast Track Process and actions to be taken.

City & Guilds is offering the opportunity for existing City & Guilds centres delivering SASE framework for the Advanced and/or Higher Level Apprenticeship for IT, Software, Web and Telecoms, or the SASW framework for the Apprenticeship and/or Higher Level Apprenticeship for IT, Software, Web and Telecoms with other Awarding Organisations to gain approval for these Apprenticeship Standards through the Common Approval Framework. See the separate document at [www.cityandguilds.com](http://www.cityandguilds.com) which provides details of the New Programme Process and actions to be taken.

Centres that are not currently with City & Guilds will need to complete a Customer Application Form and once accepted they will be asked to complete the Centre Approval Process. See the separate document on our website that provides details of the New Centre Approval Process and actions to be taken.

Centre staff should familiarise themselves with the structure, content and assessment requirements of the qualification before designing a course programme.

### Resource requirements

#### Resources

Please see the individual unit information for any resources required.

#### Centre staffing

Staff delivering these qualifications must be able to demonstrate that they meet the following occupational expertise requirements. They should:

- be occupationally competent or technically knowledgeable in the areas for which they are delivering training and/or have experience of providing training. This knowledge must be to the same level as the training being delivered
- have recent relevant experience in the specific area they will be assessing
- have credible experience of providing training.

While the Assessor/Verifier (A/V) units/TAQA are valued as qualifications for centre staff, they are not currently a requirement for these qualifications. However, City & Guilds encourage trainers and assessors to qualify to the current TAQA standard. Centre staff may undertake more than one role, eg tutor and assessor or internal verifier, but cannot internally verify their own assessments.

#### Continuing Professional Development (CPD)

Centres are expected to support their staff in ensuring that their knowledge and/or practice remains current. This includes currency within the occupational area and of best practice in delivery, mentoring, training, assessment and quality assurance. It should also take account of any national, international policy and legislative developments.

Internal quality assurance is key to ensuring that the assessment of evidence for units is of consistent and appropriate quality. They should:

- be occupationally competent or technically knowledgeable in the area for which they are internally quality assuring
- have recent relevant experience in the specific area they will be assessing
- have credible experience of providing training
- have a CV available demonstrating relevant experience and any qualifications held.

In certain circumstances, City & Guilds will recognise non-accredited learning and experience as equivalent as follows:

- If the Internal Quality Assurer does not hold a qualification they must be able to demonstrate evidence of working to their own organisation's internal quality assurance standards which clearly link to V1/TAQA or other equivalent standards for internal quality assurance.

## **Learner entry requirements**

City & Guilds does not set entry requirements for these qualifications. However, centres must ensure that learners have the potential and opportunity to gain the qualifications successfully and that they have the full engagement of the employers for the full programme.

## **Age restrictions**

City & Guilds cannot accept any registrations for learners under 16 as these qualifications are not approved for learners under 16.

## 3 Delivering the qualification

### Initial assessment and induction

An initial assessment of each learner should be made before the start of their programme to identify:

- if the learner has any specific training needs
- support and guidance they may need when working towards their qualifications
- any units they have already completed, or credit they have accumulated which is relevant to the qualifications
- the appropriate type and level of qualification.

We recommend that centres provide an induction programme so the learner fully understands the requirements of the qualifications, their responsibilities as a learner, and the responsibilities of the centre. This information can be recorded on a learning contract.

### Recording documents

Learners and centres may decide to use a paper-based or electronic method of recording evidence.

City & Guilds endorses several ePortfolio systems, including our own, Learning Assistant, an easy-to-use and secure online tool to support and evidence learners' progress towards achieving qualifications. Further details are available at: [www.cityandguilds.com/eportfolios](http://www.cityandguilds.com/eportfolios).

City & Guilds has developed a set of *Recording forms* including examples of completed forms, for new and existing centres to use as appropriate. Recording forms are available on the City & Guilds website.

Although new centres are expected to use these forms, centres may devise or customise alternative forms, which must be approved for use by the external verifier, before they are used by learners and assessors at the centre. Amendable (MS Word) versions of the forms are available on the City & Guilds website.



## 4 Assessment

### Summary of assessment methods

#### Candidates must:

- successfully complete one assessment for the mandatory unit

#### Assessment Types

Unit	Title	Assessment method	Where to obtain assessment materials
401	Software Development Methodologies	Evolve on-line test	www.cityandguilds.com

### Assessment strategy

**Assessment type:** Multiple-choice online test

**Assessment conditions:** Invigilated examination conditions

**Duration:** 1 hour

**Number of questions:** 34

**Pass mark:** 23/34 (67%)

**Grading:** Pass/Fail

Learning Outcome	No of questions
1. Understand the software development lifecycle	11
2. Understand the similarities and differences between software development methodologies	6
3. Understand how to respond appropriately to the business environment and business issues related to software development	7
4. Understand why teams must work effectively to produce software	10

### Recognition of prior learning (RPL)

Recognition of prior learning means using a person's previous experience, or qualifications which have already been achieved, to contribute to a new qualification.

For this qualification, RPL is not allowed.

## 5 Administration

### Quality assurance

#### ***Internal quality assurance***

Registered centres must have effective quality assurance systems to ensure optimum delivery and assessment of qualifications. Quality assurance includes initial centre registration by City & Guilds and the centre's own internal procedures for monitoring quality. Centres are responsible for internal quality assurance and City & Guilds is responsible for external quality assurance.

Standards and rigorous quality assurance are maintained by the use of:

- internal quality assurance
- City & Guilds external moderation.

In order to carry out the quality assurance role, Internal Quality Assurers must have appropriate teaching and vocational knowledge and expertise.

#### ***Access arrangements***

We can make arrangements so that learners with disabilities, special educational needs and temporary injuries can access the assessment. These arrangements must be made before the examination. For example, we can produce a Braille paper for a learner with visual impairment.

#### ***Language of examinations***

We will provide this specification in English only.

### Other issues

#### ***European Dimension***

City & Guilds has taken account of the 1988 Resolution of the Council of the European Community in preparing this specification and associated specimen units.

#### ***Environmental Education***

City & Guilds has taken account of the 1988 Resolution of the Council of the European Community and the Report Environmental Responsibility: An Agenda for Further and Higher Education 1993 in preparing this specification and associated specimen units.

#### ***Avoidance of bias***

City & Guilds has taken great care in the preparation of this specification and specimen units to avoid bias of any kind.

## 6 Units

### Availability of units

The unit information can be found in this document.

### Structure of the units

These units each have the following:

- City & Guilds reference number
- Title
- Level
- Guided learning hours (GLH)
- Learning outcomes, which are comprised of a number of topic

Centres must deliver the full breadth of the range. Specialist equipment or commodities may not be available to all centres, so centres should ensure that their delivery covers their use.

## Unit 401 Software Development Methodologies

<b>LEVEL</b>	4
<b>GLH</b>	90

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### What is this unit about?

This unit provides learners with an understanding of the software development lifecycle, the choices that have to be made when selecting a software development methodology, and an appreciation of how software developers need to work effectively in teams to produce software.

The role of software developer is to build and test high-quality code across front end, logic and database layers. A developer will typically be working as part of a larger team, in which they will have responsibility for some of the straightforward tasks and deliverables of the overall project. The developer will interpret design documentation and specifications. Customer requirements will typically be defined and agreed by more experienced or specialist members of the team, such as a business analyst or technical architect.

Upon completion of this unit, learners will have gained the knowledge to support the competencies of a Software Developer. Competencies supported by this unit include being able to undertake the following tasks:

- Reviews requirements and specifications, and defines test conditions. Designs test cases and test scripts under own direction, mapping back to pre-determined criteria, recording and reporting outcomes. Analyses and reports test activities and results. Identifies and reports issues and risks associated with their own work.
- Designs, codes, tests, corrects, and documents moderately complex programs and program modifications from supplied specifications, using agreed standards and tools. Conducts reviews of supplied specifications, with others as appropriate.
- Applies ergonomics tools and methods to develop users' tasks, interaction and interfaces to meet users' requirements.
- Applies data analysis and data modelling techniques to establish, modify or maintain a data structure and its associated components (entity descriptions, relationship descriptions, attribute definitions).
- Develops specialist knowledge of database concepts, object and data modelling techniques and design principles. Translates object and data models into appropriate database schemas within design constraints. Interprets installation standards to meet project needs and produces database components as required. Evaluates potential solutions, demonstrating, installing and commissioning selected products.
- Produces software builds from software source code. Conducts tests as defined in an integration test specification, records the details of any failures, and carries out fault diagnosis relating to simple failures, reporting the results of the diagnosis in a clear and concise manner.

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## Learning outcomes

In this unit, learners will be able to

- 1 Understand the software development lifecycle.
- 2 Understand the similarities and differences between software development methodologies.
- 3 Understand how to respond appropriately to the business environment and business issues related to software development.
- 4 Understand why teams must work effectively to produce software.

## Scope of content

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### Learning outcome

- 1 Understand the software development lifecycle.
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### Topics

- 1.1 The role and scope of software development and its relationship to other associated disciplines
- 1.2 The importance of following a procedural/staged lifecycle

### Depth

#### Topic 1.1

Learners need to understand that software development does not occur in isolation. Learners will gain an understanding of the stages in the lifecycle of software development and how these stages are likely to be performed by professionals in related disciplines. In particular learners will understand that core function of a software developer is to implement code to a given specification which will fulfil a set of functional requirements.

The role and scope of software development and its relationship to other associated disciplines

- Describe the stages of developing software products through a development lifecycle:
- Requirements gathering and analysis (separating functional and non-functional requirements)
- Software design and prototyping including design trade-offs and diagramming
- Choice of development languages and tools
- Appropriate testing methodologies including validation and verification of meeting the requirements gathered
- Deployment into production and ongoing maintenance
- Describe the relationship of software development with other disciplines such as project management, programming, testing, service management, change and configuration management

#### Topic 1.2

Learners must understand why it is important for software to be implemented using a structured software development methodology and the benefits of following the chosen method. Learners should be able to discuss why these benefits are important to other professionals such as project managers, and to the sponsors of the software development project, and for those who will support the software once it is has been deployed.

Explain the importance of the following in a procedural (Linear) /staged (Iterative) software development lifecycle, eg:

- Standardisation
- Methodical approach

- Analysis of each step
- Collation of information
- Ensuring correct design
- Cost control
- Robust evaluation to aid future development

For this learning outcome it does not matter which development lifecycle model is referred to, but it is vital that learners are able to explain the importance of Software Development Lifecycle and their role in context of wider IT service and operations.

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## Learning outcome

- 2 Understand the similarities and differences between software development methodologies.

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## Topics

- 2.1 Software development methodologies, applications, advantages and disadvantages

### Depth

#### Topic 2.1

In this topic, learners will learn to describe the advantages and disadvantages of at least two software development methodologies in common use in industry. In comparing these methods, learners should be able to explain when a particular method would be preferable for a specific software implementation projects, and what the consequences of choosing the wrong method might be. The learner should also be able to describe the different team roles and responsibilities of at least two methods.

Summarise software development methodologies, application, advantages and disadvantages.

- Principles and rationale
- Structure and stages
- Advantages
- Disadvantages
- Selection criteria
- Team roles and responsibilities

Software Methodologies must include but not limited to Agile and Waterfall.

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## Learning outcome

- 3 Understand how to respond appropriately to the business environment and business issues related to software development

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## Topics

- 3.1 The business environment related to software development
- 3.2 The business environment and business issues related to software development

### Depth

#### Topic 3.1

Learners will need to understand that software development typically takes place in a wider business which places constraints upon the software development process. The learner will be able to explain the types of constraints that may typically arise, and how they can be mitigated.

3.1 Describe the business environment related to software development

- Business environment pressures:
- Are there any specific project requirements such as contractual constraints – time, cost, quality, compliance, regulatory, innovation criteria?
- Are there configuration management and change control constraints?
- Are there opportunities to promote alternative practices – Agile over waterfall, rapid prototyping, modularity over performance

#### Topic 3.2

Learners will learn how to describe the business issues related to software development and how to mitigate them. In particular, learners will need to understand the importance of engaging with project management as business owners of the software development project.

3.2 Understand how to respond to the business environment and business issues related to software development

- Engagement with project management:
- Understand how to identify potential risks and flag them
- Understand how to identify where additional technical resource will be required
- Support effective cost estimation
- Accurately Forecast effort (time) required

This topic should introduce learners to the importance of engaging with project managers who will be responsible for the quality, timeframe and resource constraints the software developer will be working to.

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## Learning outcome

- 4 Understand why teams must work effectively to produce software



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## Topics

- 4.1 Roles and responsibilities within the software development and implementation lifecycle
- 4.2 The importance of working as an effective member of a development team

### Depth

#### Topic 4.1

Learners will learn to explain a range of common roles found within an industry software development function. One person may hold multiple roles within an organisation. Core functions of business analysis, software design, software implementation, testing and architecture will be discussed.

Describe the roles and responsibilities within the software development and implementation lifecycle

- Business analysts
- Requirements analysis and capture
- Resource estimation and planning
- Requirements validation (including scope, documenting assumptions and exclusions)
- Requirements engineering
- Requirements tracking
- Separation of functional and non-functional requirements
- Specification development
- Designers
- Design a software model that fulfil the specifications:
  - Refinements of specifications
  - Use of diagramming tools
  - Use of formal and mathematical specification approaches
  - Choice of system architectures
  - Different design approaches and trade-offs such as, but not limited to: modularity v. performance
  - Choice of structured design
  - Documentation of design
- Developers
- Implementation choices – development language and tools
- Debugging methods
- Performance measurement
- Validation and verification – ensuring the code meets the design specification
- Testers
- Quality assurance
- Black-box and white-box testing
- Formal proof models
- Static and dynamic analysis tools
- Technical architects
- Deployment choices and architectures
- Configuration management and change control

## Topic 4.2

Learners must learn that software development in industry is seldom an individual effort and that to be an effective software development professional, it is important to work as a member of a development team. This will require the learner to understand the wider business context and how they can engage with it through their peers and managers.

### 4.2 The importance of working as a member of an effective development team

Describe how key roles and responsibilities can be used to form teams

- Key Roles eg
  - o Project manager
  - o Business analysts
  - o Designers
  - o Developers
  - o Testers
  - o Technical architects

Describe factors that influence effective team working and their importance including internal and external factors eg:

- Communication
- Composition
- Interpersonal relationships
- Maturity of the team
- Skill set
- Leadership style
- Resources
- Climate and environment of the organisation
- Sponsor

## Guidance for delivery

2.1 This learning outcome focuses on two relevant and contemporary methods to compare, which have been selected by the Digital Industry employers to be named in the standard. Reference to a wider range of software development methodologies beyond this to teach, compare and contrast would be beneficial to learners.

1.1 and 4.2 centres may wish to highlight the consequences of not working as an effective team eg a coder working in isolation

## Employer engagement

Employer engagement is essential in order to maximise the value of learners' experience. A partnership approach should be adopted where possible with employers with whom the consortium has links, and with employers used for work experience placements.

It would be helpful for teachers to develop a method of maintaining contact with a range of employers in the sectors may be able to help with keeping the examples of legislation, policies and codes of practice used in the taught content, up to date.

1. Local branches of BCS The Chartered Institute for IT can often provide access to local employers, since many members will be senior practitioners and leaders in organisations that employ IT professionals. The BCS has an extensive branch network of volunteers operating across the UK, Channels Islands and Isle of Man.  
<http://www.bcs.org/category/5897>
2. Invite local businesses to visit the delivery centre to talk about their experience in using Digital Technology for commercial advantage, especially in respect of their dealing with suppliers, customers and employees. Ask the students to identify aspects of the IT practices of local business that may be considered 'good practice'.
3. Identify local small businesses that have no IT governance policy or guidelines. Invite them to attend a short presentation and discussion event wherein students outline by way of presentation and demonstration a short set of (maximum 10 items) good practices for IT governance and be prepared to answer questions from the audience.
4. Invite the local constabulary to come and speak on examples of where businesses and individuals have been victims of crime as a result of their use of IT, and how IT is used in law enforcement (e.g., the Automatic Number Plate Recognition System (ANPR)).
5. Approach the local chamber of commerce to attend a student debate on the need for greater awareness and engagement with the Digital Economy on the part of small business where. Choose a debatable question that can be supported or opposed such as 'This house believes that Internet sales channels are of equal importance to small/local retailers as they are to global corporates.'
6. Larger enterprises and central government agencies with local offices are likely to have formalised IT governance policies, especially in technology enabled industries such as Banking, Insurance, Telecommunications and Logistics. These organisation may be willing to offer the time of their Chief Information Officer, an IT manager or technical professional to present to learners on the steps their organisation takes to protect against IT security threats.

7. Website designers working in the local economy will often have extensive links with small business that have commissioned them to design, develop and maintain ecommerce sites. Invite a local web designer to come and speak about the challenges their clients face in implementing an online presence.
8. The Computing/IT faculty of every university will have links to employers in the local economy and their faculty staff may be willing to introduce delivery centres to major employers of IT skilled graduates and apprentices. Such links should be developed by FE colleges so as to better understand the skills needs and career options for IT practitioners at all levels from school leaver to graduate (i.e., think of how your learners can develop their career beyond the FE stage, and open their eyes to a full career).
9. Tech Partnership, the UK sector skills council for the IT/Telecoms industry, have an extensive list of small/medium sized employers of IT skilled apprentices and college leavers. They also provide a wealth of free resources for FE colleges to enable better engagement with local employers. <https://www.thetechpartnership.com/>

## **Suggested learning resources**

### **Books**

Developing Information Systems

Cadle, J.; Ahmed T.; Cox, J.; Girvan L.;  
Paul A.; Paul D.; Thompson P.

Published by: BCS Learning & Development, 2014

ISBN: 978-1-78017-245-3

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### **Journals and magazines**

iTNow - <http://www.bcs.org/category/17705>

### **Websites**

BCS – The Chartered Institute for IT

[www.bcs.org](http://www.bcs.org)

## Appendix 1 Relationships to other qualifications

### ***Links to other qualifications***

Centres are responsible for checking the different requirements of all qualifications they are delivering and ensuring that candidates meet requirements of all units/qualifications.

### ***Literacy, language, numeracy and ICT skills development***

This qualification can develop skills that can be used in the following qualifications:

- Functional Skills (England) – see [www.cityandguilds.com/functionalskills](http://www.cityandguilds.com/functionalskills)
- Essential Skills (Northern Ireland) – see [www.cityandguilds.com/essentialskillsni](http://www.cityandguilds.com/essentialskillsni)
- Essential Skills Wales – see [www.cityandguilds.com/esw](http://www.cityandguilds.com/esw)

## Appendix 2 Sources of general information

The following documents contain essential information for centres delivering City & Guilds qualifications. They should be referred to in conjunction with this handbook. To download the documents and to find other useful documents, go to the Centres and Training Providers homepage on [www.cityandguilds.com](http://www.cityandguilds.com).

*Centre Manual - Supporting Customer Excellence* contains detailed information about the processes which must be followed and requirements which must be met for a centre to achieve 'approved centre' status, or to offer a particular qualification, as well as updates and good practice exemplars for City & Guilds assessment and policy issues.

Specifically, the document includes sections on:

- The centre and qualification approval process
- Assessment, internal quality assurance and examination roles at the centre
- Registration and certification of candidates
- Non-compliance
- Complaints and appeals
- Equal opportunities
- Data protection
- Management systems
- Maintaining records
- Assessment
- Internal quality assurance
- External quality assurance.

*Our Quality Assurance Requirements* encompasses all of the relevant requirements of key regulatory documents such as:

- SQA Awarding Body Criteria (2007)
- NVQ Code of Practice (2006)

and sets out the criteria that centres should adhere to pre and post centre and qualification approval.

*Access to Assessment & Qualifications* provides full details of the arrangements that may be made to facilitate access to assessments and qualifications for candidates who are eligible for adjustments in assessment.

The **centre homepage** section of the City & Guilds website also contains useful information on such things as:

- **Walled Garden:** how to register and certificate candidates on line
- **Events:** dates and information on the latest Centre events
- **Online assessment:** how to register for e-assessments.

*Centre Guide – Delivering International Qualifications* contains detailed information about the processes which must be followed and requirements which must be met for a centre to achieve 'approved centre' status, or to offer a particular qualification.

Specifically, the document includes sections on:

- The centre and qualification approval process and forms
- Assessment, verification and examination roles at the centre
- Registration and certification of candidates

- Non-compliance
- Complaints and appeals
- Equal opportunities
- Data protection
- Frequently asked questions.

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[www.cityandguilds.com](http://www.cityandguilds.com)



## Useful contacts

### UK learners

General qualification information

**E: [learnersupport@cityandguilds.com](mailto:learnersupport@cityandguilds.com)**

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### International learners

General qualification information

F: +44 (0)20 7294 2413

**E: [intcg@cityandguilds.com](mailto:intcg@cityandguilds.com)**

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### Centres

Exam entries, Certificates, Registrations/enrolment, Invoices, Missing or late exam materials, Nominal roll reports, Results

F: +44 (0)20 7294 2413

**E: [centresupport@cityandguilds.com](mailto:centresupport@cityandguilds.com)**

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### Single subject qualifications

Exam entries, Results, Certification, Missing or late exam materials, Incorrect exam papers, Forms request (BB, results entry), Exam date and time change

F: +44 (0)20 7294 2413

F: +44 (0)20 7294 2404 (BB forms)

**E: [singlesubjects@cityandguilds.com](mailto:singlesubjects@cityandguilds.com)**

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### International awards

Results, Entries, Enrolments, Invoices, Missing or late exam materials, Nominal roll reports

F: +44 (0)20 7294 2413

**E: [intops@cityandguilds.com](mailto:intops@cityandguilds.com)**

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### Walled Garden

Re-issue of password or username, Technical problems, Entries, Results, e-assessment, Navigation, User/menu option, Problems

F: +44 (0)20 7294 2413

**E: [walledgarden@cityandguilds.com](mailto:walledgarden@cityandguilds.com)**

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### Employer

Employer solutions, Mapping, Accreditation, Development Skills, Consultancy

T: +44 (0)121 503 8993

**E: [business@cityandguilds.com](mailto:business@cityandguilds.com)**

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### Publications

Logbooks, Centre documents, Forms, Free literature

F: +44 (0)20 7294 2413

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As the UK's leading vocational education organisation, City & Guilds is leading the talent revolution by inspiring people to unlock their potential and develop their skills. We offer over 500 qualifications across 28 industries through 8500 centres worldwide and award around two million certificates every year. City & Guilds is recognised and respected by employers across the world as a sign of quality and exceptional training.

## City & Guilds Group

The City & Guilds Group is a leader in global skills development. Our purpose is to help people and organisations to develop their skills for personal and economic growth. Made up of City & Guilds, City & Guilds Kineo, The Oxford Group and ILM, we work with education providers, businesses and governments in over 100 countries.

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