



ENGINEERING



CONTENTS



WHY CHOOSE CITY & GUILDS FOR ENGINEERING?

Our courses focus on the practical skills needed for a range of different careers in the engineering sector, and can be used as part of the contribution towards professional registration. That's because our vocational courses are created in collaboration with industry leaders and employers, which means you can feel assured that we'll help provide your learners with the right skills to succeed.



WHY CHOOSE CITY & GUILDS FOR ENGINEERING?

As one of the leading vocational skills providers, our courses set the benchmark for vocational learning and workplace skills – our engineering courses are no different.

WORLD RENOWNED COURSES

We have over 130 years of experience in designing qualifications and providing learners with real-life, practical skills needed to succeed in the modern workplace. Those with a City & Guilds engineering qualification are highly valued by employers around the world as the benchmark for excellence.

DEVELOPED WITH THE INDUSTRY

Because our portfolio of courses has been developed under the guidance of industry professionals, we can assure you of its continual development and relevance.

By working with industry professionals, our courses focus on the knowledge and practical skills required for employment and a career in the engineering industry.

FOR THE INDUSTRY

The City & Guilds brand is recognised by employers all around the world, so you can be sure that your learners will be successful wherever they go.

Our international engineering courses are all supported by a [Europass Certificate Supplement](#), helping to ensure that the skills our graduates gain are well understood by employers and other learning providers.

Our Level 3 courses are endorsed by the Welding Institute and approved by the Institution of Mechanical Engineers (IMechE) as contributing towards professional registration as an Engineering Technician (EngTech).

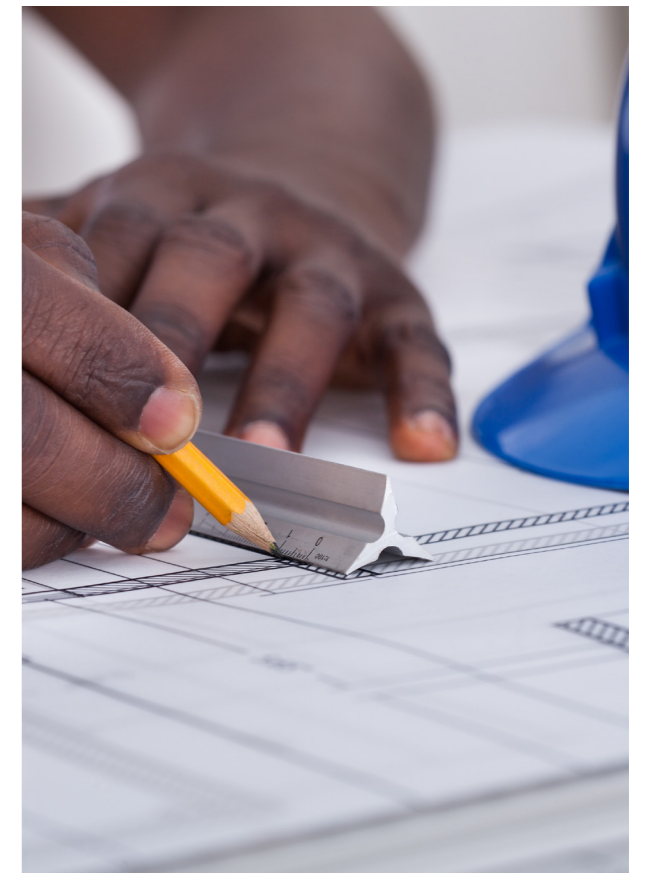
ACCREDITED WITH THE SEAL OF APPROVAL

Our 2730 and 2850 engineering suite of courses are accredited on the Qualification and Credit Framework (QCF).

WHAT COURSES

DO WE OFFER?

We offer a broad range of courses across the entire engineering industry, from entry-level skills awards to post graduate courses. They include mechanical, electrical, electronic, civil and telecommunications. As such, you're able to offer learners the right course for their needs, ensuring they'll have everything they require to succeed in their job.



ABOUT OUR ASSESSMENTS

We work with employers, tutors and learners to make sure the assessment criteria for our courses meets everyone's needs. We do this by ensuring that each assessment is relevant, engaging, coherent and fair.

RELEVANT

By consulting industry professionals, we build our assessments to ensure they test the critical skills and knowledge that today's employers are seeking.

COHERENT

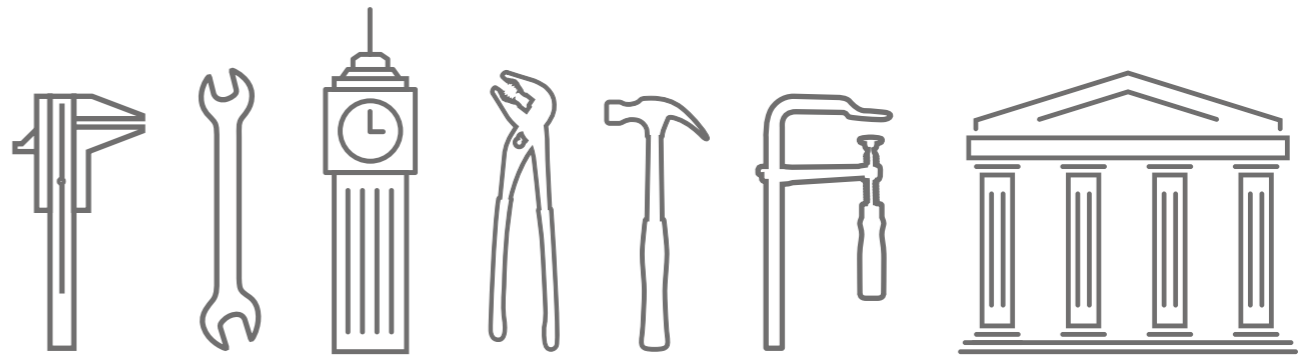
We do everything we can to ensure learners fully understand our assessments. By using straightforward language we can remove ambiguity to deliver the clearest possible instructions.

ENGAGING

We aim to capture the attention of learners from start to finish. With interesting course material we can motivate them to succeed.

FAIR

We avoid unfair discrimination by focussing solely on the relevant skills and knowledge needed to pass a particular course, considering only the necessary assessment criteria for that qualification.



ABOUT OUR ASSESSMENTS

METHODS OF ASSESSMENT

Not all courses are the same and not all learners are the same. That's why we use different types of assessment to suit different needs; giving you and your learners the best chance of success.

There are four main types of assessment used to test the hands-on skills that learners need in the workplace, as well as the theory needed to apply these skills in practice.

CITY & GUILDS SET QUESTION PAPERS

City & Guilds' question papers are set twice a year at fixed times. These multiple choice and short answer papers provide the rigour and externality required for assessing the course theory.

PRACTICAL ASSIGNMENTS

These City & Guilds set assignments provide structure and flexibility to practical assessment and can be co-ordinated around the learner's readiness and availability. Learners' work can also be sampled by City & Guilds to help you to deliver the assessments at the required standard.

CENTRE-SET ASSIGNMENTS

These tests are coordinated and assessed entirely by the centre. They offer a great deal of flexibility for customers and can be adapted to fit local needs, infrastructure and learners' readiness to be tested. Centre-set assignments can also be sampled by City & Guilds to help you devise the right assessments and deliver to the required standard.

E-VOLVE ONLINE TESTS

These are highly accessible multiple choice online exams that are perfect for assessing a learner's knowledge anywhere, anytime, and for reducing the amount of administration required. They offer instant feedback, immediate results and are externally marked.

E-volve tests can be taken on-demand for even greater flexibility for you and your learners. Put simply, you can set exams whenever it is most convenient for you.



Visit our website for:

[e-volve familiarisation material](#)

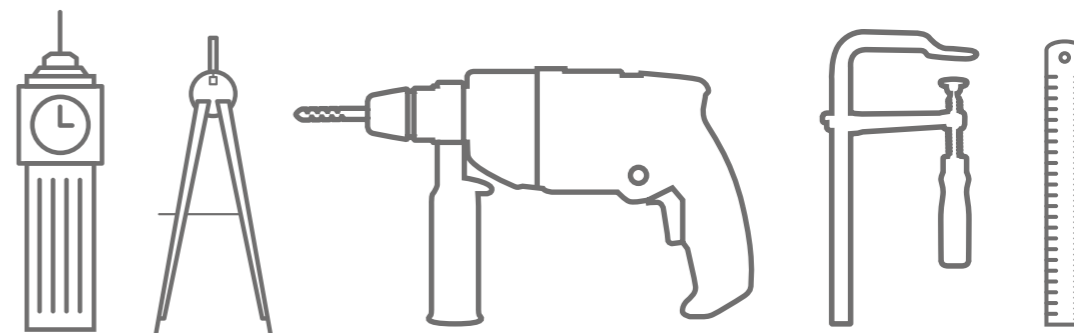
HOW DO WE SUPPORT TEACHING AND LEARNING?

We'll give you everything you need to deliver our courses and it's all covered in the price so there are no nasty hidden charges.

If you would like a bit more help in boosting your success rates, we have some great online resources to choose from. These will help you save time and money, as well as assist in the delivery of learning materials — so learners have the best possible experience.

Below is a list of the types of resources that you'll receive free of charge with our courses:

- Qualification handbooks
- Assessment packs
- Exemplar assignments
- Recognitions lists
- Sample schemes of work
- Sample session plans
- Individual learning plans
- Handouts
- Worksheets
- Activities
- Assessment support
- Further reading/links
- Glossary
- Equipment lists
- Career sheets
- PowerPoint presentations
- Practice question papers



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- Career sheets
- PowerPoint presentations
- Practice question papers

SMARTSCREEN

Your online teaching and learning resource portal

SmartScreen is a one-stop-online-shop with unlimited access to everything you and your learners need for a positive learning experience.

It ensures that our courses are even easier for you to deliver, saving you time on planning teaching activities, and supporting learner understanding.

It contains all the necessary teaching and learning support material, which includes tutor forums, lesson plans, presentations, handouts, worksheets, and equipment lists.

Practice question papers are also available through SmartScreen to help learners prepare for assessment.

Login details are available on request via Walled Garden.

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- Assessment support
- Further reading/links
- Glossary
- Equipment lists
- Career sheets
- PowerPoint presentations
- Practice question papers

EVENTS

WHERE LIKE-MINDED PEOPLE MEET

We host a variety of events to help support you and your teams, from networking with other providers, to product knowledge training and consultation with our Quality Assurance experts. Simply contact your [local office](#) for event information in your area.

OUR QUALITY ASSURANCE

QUALITY ASSURANCE YOU CAN TRUST

Our approach to quality assurance is designed to support your centre in upholding our rigorous quality standards by assigning a subject matter expert called an 'External Verifier' or 'EV'.

Our EVs are trained to offer advice and guidance around the delivery of courses. As well as being our guardian for quality, EVs also act as mentors and provide recommendations on how your centre can continue to meet our quality requirements. With a City & Guilds EV you should feel like you have a trusted expert consultant that you can rely on.

YOUR GUIDE TO DELIVERING OUR COURSES

When becoming an approved City & Guilds centre, you'll receive your International Centre Guide. It's included in the approval fee and is your step-by-step guide to ensuring that you're delivering our courses to the City & Guilds standard. There are four key areas that it covers:

- Management and administrative systems
- Physical and staff resources
- Assessment
- Quality assurance

GETTING APPROVED

We set our standards high and that's why our brand and our qualified learners are renowned the world over. It's also why any centre wishing to offer City & Guilds courses must be officially approved by us. Our local customer service team and expert consultants are there to help you get up and running as quickly as possible.

WHAT SHOULD YOU DO NEXT?

If you want to gain approval to start running City & Guilds courses, simply follow the link below:

For anything else, just contact your local office and they'll be happy to help.
Find your local office:

WHAT SHOULD YOU DO NEXT?

It's quick and easy to gain approval, just follow these steps:

STEP 1 LEARNER NUMBERS

There is a minimum number of learners per course, per year that we can accept, so please check the number of learners you expect to enrol and get in touch with your local office. They will be happy to discuss your delivery plans and might even be able to assist with your marketing efforts.

STEP 2 APPROVAL PREPARATION

To make sure you're ready, use the information in the [Qualification Handbook](#) and [International Centre Guide](#) to check you have the following:

- Fully qualified training and assessment staff
- Appropriate facilities and equipment for teaching, learning and assessment
- Robust management and quality assurance systems

STEP 3 APPROVAL APPLICATION

Complete the Centre Approval form, send it to your local office and we'll help you get up and running as quickly as possible.

Those that want to add new courses to their existing City & Guilds portfolio only need to apply for that qualification. In some cases, where customers already offer similar courses, we may be able to fast-track their approval application.

If you have anything else you wish to ask us about your centre's eligibility, we're here to help. Just contact your local office.

APPENDIX

CITY & GUILDS COURSES

**MECHANICAL
ENGINEERING**

**ELECTRICAL AND
ELECTRONIC ENGINEERING**

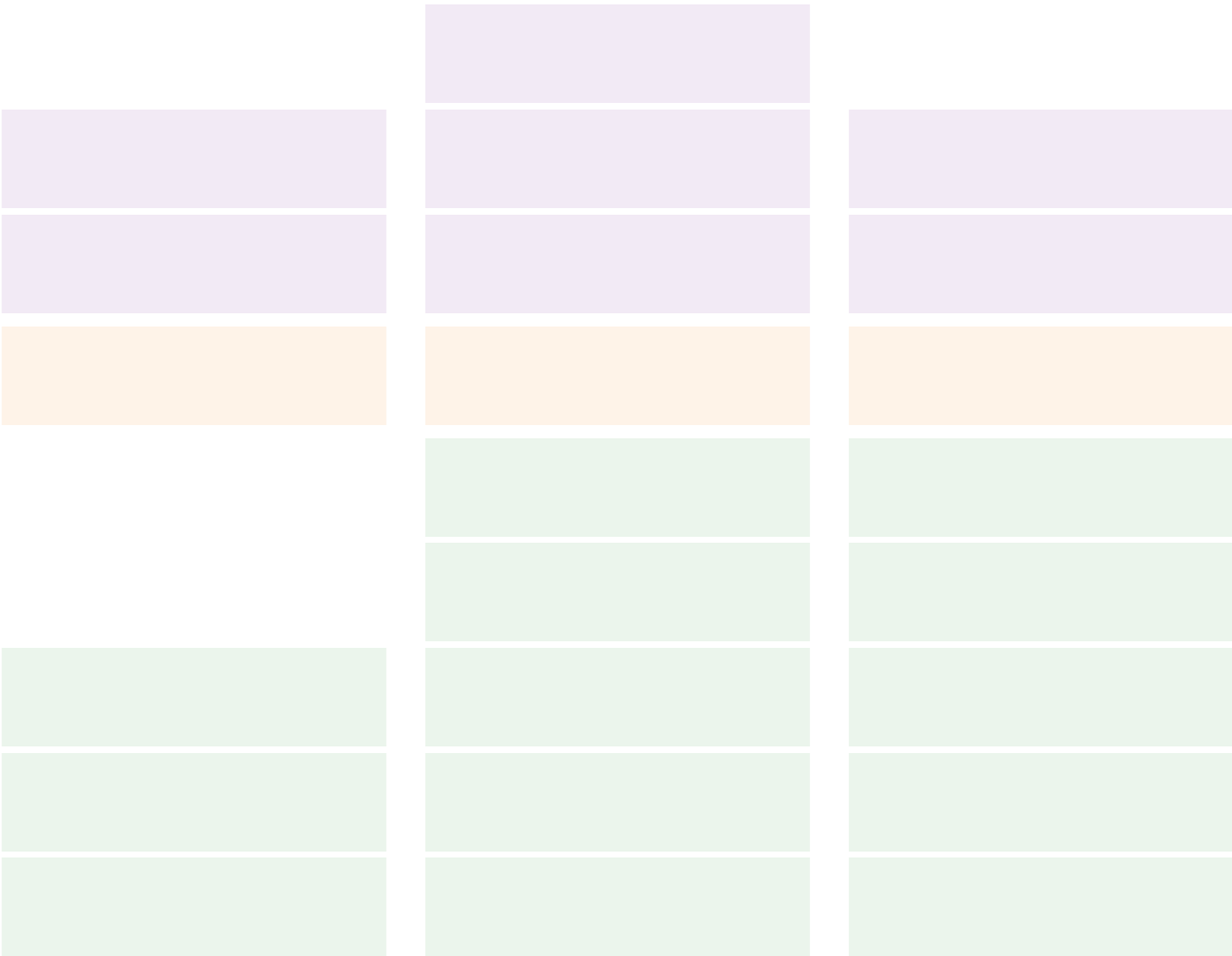
**CIVIL
ENGINEERING**

**TELECOMMUNICATION
ENGINEERING**

LEVEL 2

LEVEL 1

**ENTRY
LEVEL**



CITY & GUILDS COURSES

**MECHANICAL
ENGINEERING**

**ELECTRICAL AND
ELECTRONIC ENGINEERING**

**CIVIL
ENGINEERING**

**TELECOMMUNICATION
ENGINEERING**

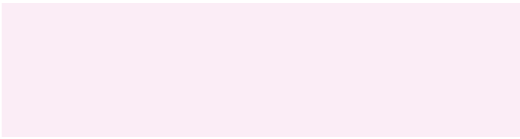
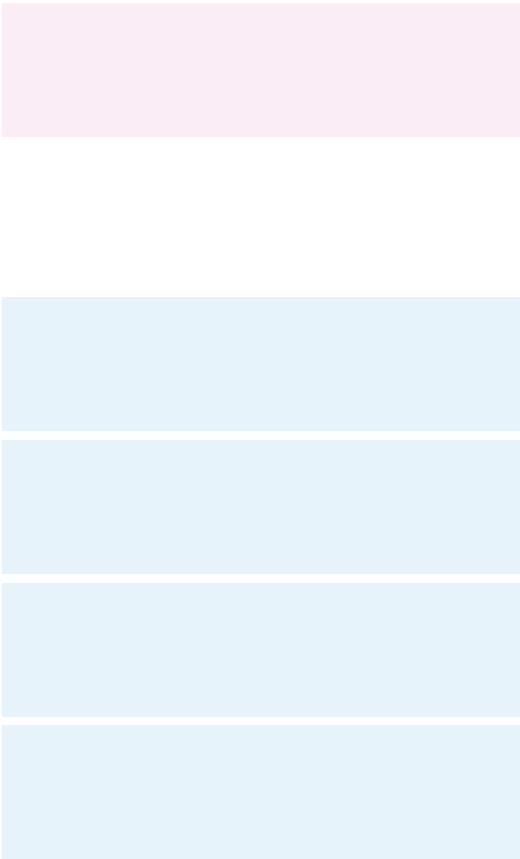
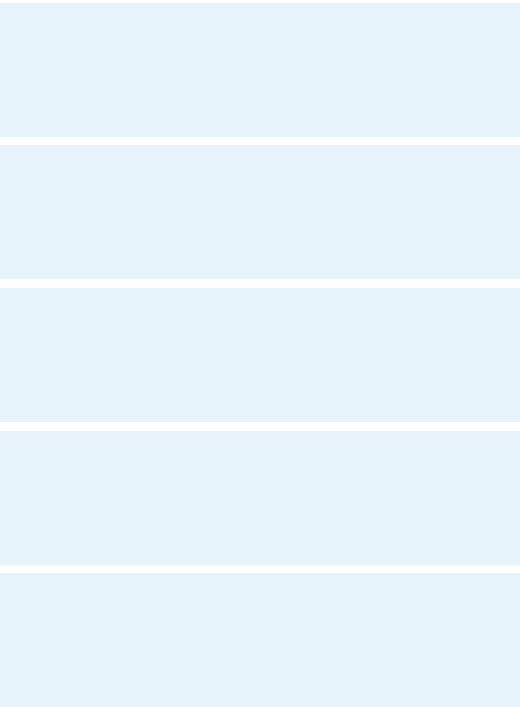
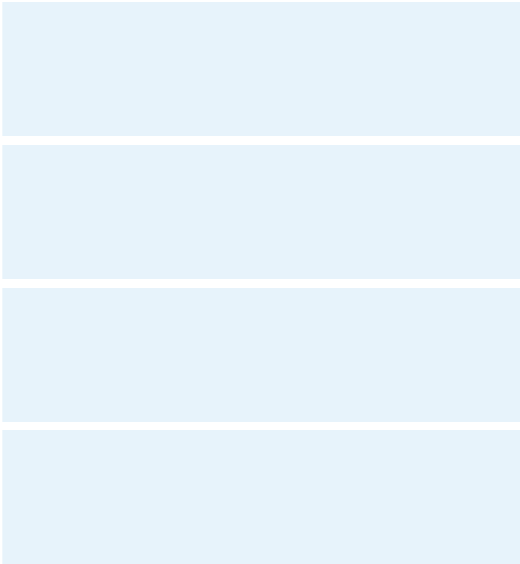
LEVEL 7

LEVEL 6

LEVEL 5

LEVEL 4

LEVEL 3



ENTRY LEVEL: SKILLS FOUNDATION CERTIFICATE

(BASIC ENGINEERING 3528-08 AND 3528-12)

UNITS

- Basic engineering skills
- Basic electronic engineering

ASSESSMENTS

Learners are required to successfully complete practical assignments and oral questions.

PROGRESS IN LEARNING

On completion of these courses learners may progress into employment or the following City & Guilds Level 1 qualification. If the centre feels the learner is ready, they may even be able to progress straight to Level 2:

- Level 1 Certificate in Engineering (2850-80)
- Level 2 Certificate/Diploma in Engineering - Manufacturing Technology (2850-81/51)
- Level 2 Certificate/Diploma in Engineering - Maintenance Technology (2850-82/52)
- Level 2 Certificate/Diploma in Engineering - Fabrication and Welding Technology (2850-83/53)
- Level 2 Certificate/Diploma in Engineering - Electrical and Electronics Technology (2850-84/54)

PROGRESS TO A JOB

Entry level jobs

QUICK LINKS

ENTRY LEVEL: SKILLS FOUNDATION CERTIFICATE

(BASIC ENGINEERING 3528-08 AND 3528-12)

WHO IS THIS COURSE FOR?

The Skills Foundation Awards are perfect for learners interested in engineering and looking for courses that focus on basic engineering practical skills.

For those with existing experience of basic engineering skills, these awards will provide formal recognition of practical skills gained in the workplace.

QUICK LINKS

ENTRY LEVEL: SKILLS PROFICIENCY CERTIFICATE

(BASIC ENGINEERING 3529-08 TO 3529-12)

UNITS

- Basic electrical engineering
- Basic metal machining
- Basic plant maintenance
- Basic fabrication, welding and pipework
- Electronic engineering

ASSESSMENTS

Learners are required to successfully complete practical assignments and oral questions.

PROGRESS IN LEARNING

On completion of these courses learners may progress into employment or the following City & Guilds Level 1 qualification. If the centre feels the learner is ready, they may even be able to progress straight to Level 2:

- Level 1 Certificate in Engineering (2850-80)
- Level 2 Certificate/Diploma in Engineering - Manufacturing Technology (2850-81/51)
- Level 2 Certificate/Diploma in Engineering - Maintenance Technology (2850-82/52)
- Level 2 Certificate/Diploma in Engineering - Fabrication and Welding Technology (2850-83/53)
- Level 2 Certificate/Diploma in Engineering - Electrical and Electronics Technology (2850-84/54)

PROGRESS TO A JOB

Entry level jobs

QUICK LINKS

ENTRY LEVEL: SKILLS PROFICIENCY CERTIFICATE

(BASIC ENGINEERING 3529-08 TO 3529-12)

WHO IS THIS COURSE FOR?

The Skills Proficiency Awards build upon the Foundation Awards, for learners interested in engineering and looking for courses that focus on basic engineering practical skills.

For those with existing experience of basic engineering skills, these awards will provide formal recognition of practical skills gained in the workplace.

QUICK LINKS

LEVEL 1: CERTIFICATE IN ENGINEERING (2850-80)

UNITS

Learners must take two optional units.

Mandatory Units

101 Working in engineering

Optional Units

102 Carrying out basic fitting techniques

103 Carrying out basic milling techniques

104 Carrying out basic turning techniques

105 Carrying out mechanical assembly

106 Carrying out electronics assembly

107 Carrying out electrical assembly

108 Working with sheet metals

109 Carrying out manual arc welding techniques

110 Carrying out MIG welding processes

111 Carrying out TIG welding processes

UNITS (CONT'D)

112 Carrying out OXY-Acetylene welding processes

113 Carrying out surface finishing techniques

114 Carrying out mechanical maintenance

115 Communicating using Computer Aided Design (CAD) systems

116 Producing engineering drawings

ASSESSMENTS

Learners are required to successfully complete the following:

- One online multiple-choice assessment for the mandatory unit
- One assignment for each chosen optional unit which contains practical and knowledge tasks

PROGRESS IN LEARNING

On completion of these courses learners may progress into employment or to the following City & Guilds courses:

- Level 2 Certificate/Diploma in Engineering - Manufacturing Technology (2850-81/51)
- Level 2 Certificate/Diploma in Engineering - Maintenance Technology (2850-82/52)
- Level 2 Certificate/Diploma in Engineering - Fabrication and Welding Technology (2850-83/53)
- Level 2 Certificate/Diploma in Engineering - Electrical and Electronics Technology (2850-84/54)

PROGRESS TO A JOB

These courses can help learners to progress in a wide range of roles including:

- Entry Level
- Trainee Technician

UNIT ROUTES 2850-93

Learners are able to claim unit certification should they wish to take units as individual courses.

QUICK LINKS

LEVEL 1: CERTIFICATE IN ENGINEERING (2850-80)

WHO IS THIS COURSE FOR?

This level is ideal for those looking for a basic understanding of the skills and engineering principles needed to enter the engineering sector or school leavers considering a career in engineering.

This course will introduce learners to safe working practices and the basic materials, hand tools, and machinery that engineers use in their everyday work. Learners are also able to choose units from different engineering areas to suit different career paths.

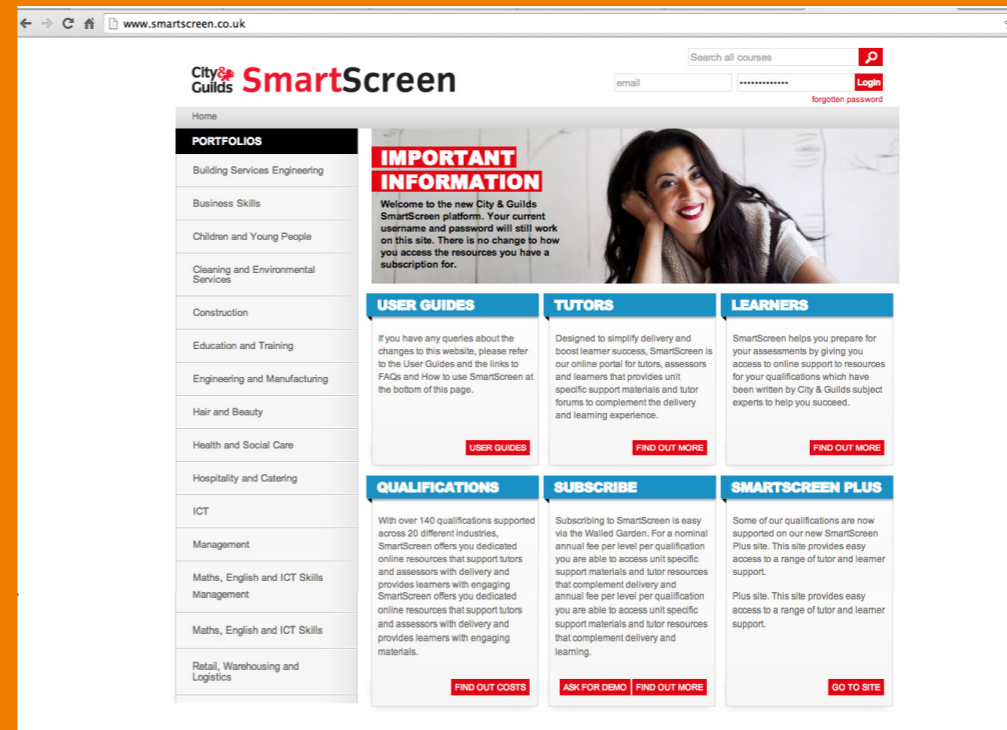
QUICK LINKS

LEVEL 1: CERTIFICATE IN ENGINEERING (2850-80)

SUPPORT MATERIALS

In addition to all our **standard support**, the following units are supported by SmartScreen:

- Unit 101** Working in engineering
- Unit 102** Carrying out basic fitting techniques
- Unit 103** Carrying out basic milling techniques
- Unit 104** Carrying out basic turning techniques
- Unit 105** Carrying out mechanical assembly
- Unit 106** Carrying out electronics assembly
- Unit 107** Carrying out electrical assembly
- Unit 108** Working with sheet metals
- Unit 109** Carrying out manual arc welding techniques
- Unit 110** Carrying out MIG welding processes
- Unit 112** Carrying out OXY-Acetylene welding processes



QUICK LINKS

LEVEL 2: CERTIFICATE / DIPLOMA IN

MANUFACTURING TECHNOLOGY (2850-51/81)

UNITS

Learners must take two (for the Certificate) or three (for the Diploma) optional units.

Mandatory Units

- 201** Working in engineering
- 202** Principles of engineering technology
- 253** Principles of manufacturing technology

Optional Units

- 204** Machine components using milling techniques
- 205** Machine components using turning techniques
- 206** Using bench fitting techniques
- 207** Using computer aided manufacturing processes

ASSESSMENTS

Learners are required to successfully complete the following:

- One online multiple-choice assessment for each mandatory unit
- One short-answer question paper for each 'Principles of' mandatory unit
- One assignment for each chosen optional unit

PROGRESS IN LEARNING

On completion of these courses learners may progress into employment or to the following City & Guilds and ILM courses:

- Level 3 Diploma in Engineering - Welding (2850-85)
- Level 3 Diploma in Engineering - Fabrication (2850-86)
- Level 3 Diploma in Engineering - Fabrication and Welding (2850-87)

PROGRESS IN LEARNING (CONT'D)

- Level 3 Diploma in Engineering - Maintenance, Installation and Commissioning (2850-88)
- Level 3 Diploma in Engineering - Mechanical Manufacturing Engineering (2850-89)
- Level 3 Diploma in Engineering - Electrical and Electronic Engineering (2850-90)
- ILM, [the Institute of Leadership and Management](#)

PROGRESS TO A JOB

These courses can help learners to progress in a wide range of roles including:

- Electrician
- Welder / Fabricator
- Machine Operative
- Maintenance Technician

UNIT ROUTES 2850-94

Learners are able to claim unit certification should they wish to take units as individual courses.

QUICK LINKS

LEVEL 2: CERTIFICATE / DIPLOMA IN

MANUFACTURING TECHNOLOGY (2850-51/81)

WHO IS THIS COURSE FOR?

This level is ideal for anyone looking to begin their career in engineering, to develop their understanding of engineering skills and principles, or for school leavers with some knowledge or experience in engineering.

This course focuses on the practical skills and underpinning knowledge required to work in manufacturing technology, and introduces learners to the basic principles of mathematics, science and technologies that underpin engineering.

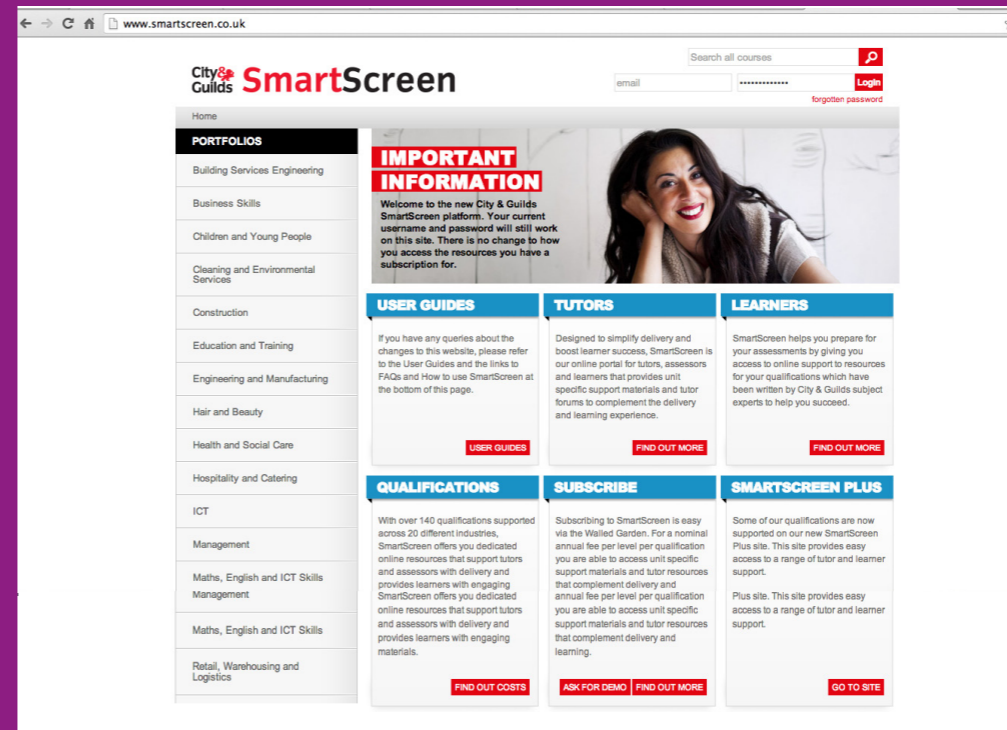
QUICK LINKS

LEVEL 2: CERTIFICATE / DIPLOMA IN MANUFACTURING TECHNOLOGY (2850-51/81)

SUPPORT MATERIALS

In addition to all our **standard support**, the following units are supported by SmartScreen:

- Unit 201** Working in engineering
- Unit 202** Principles of engineering technology
- Unit 204** Machine components using milling techniques
- Unit 205** Machine components using turning techniques
- Unit 206** Using bench fitting techniques
- Unit 253** Principles of manufacturing technology



QUICK LINKS

LEVEL 2: CERTIFICATE / DIPLOMA IN

MAINTENANCE TECHNOLOGY (2850-52/82)

UNITS

Learners must take two (for the Certificate) or three (for the Diploma) optional units.

Mandatory Units

- 201** Working in engineering
- 202** Principles of engineering technology
- 254** Principles of maintenance technology

Optional Units

- 209** Assembling and maintaining fluid power systems
- 210** Maintenance of mechanical devices and equipment
- 211** Maintaining electrical wiring support systems
- 222** Maintaining electrical equipment and systems

ASSESSMENTS

Learners are required to successfully complete the following:

- One online multiple-choice assessment for each mandatory unit
- One short-answer question paper for each 'Principles of' specialist unit
- One assignment for each chosen optional unit

PROGRESS IN LEARNING

On completion of these courses learners may progress into employment or to the following City & Guilds and ILM courses:

- Level 3 Diploma in Engineering - Welding (2850-85)
- Level 3 Diploma in Engineering - Fabrication (2850-86)
- Level 3 Diploma in Engineering - Fabrication and Welding (2850-87)

PROGRESS IN LEARNING (CONT'D)

- Level 3 Diploma in Engineering - Maintenance, Installation and Commissioning (2850-88)
- Level 3 Diploma in Engineering - Mechanical Manufacturing Engineering (2850-89)
- Level 3 Diploma in Engineering - Electrical and Electronic Engineering (2850-90)
- ILM, [the Institute of Leadership and Management](#)

PROGRESS TO A JOB

These courses can help learners to progress in a wide range of roles including:

- Electrician
- Welder / Fabricator
- Machine Operative
- Maintenance Technician

UNIT ROUTES 2850-94

Learners are able to claim unit certification should they wish to take units as individual courses.

QUICK LINKS

LEVEL 2: CERTIFICATE / DIPLOMA IN

MAINTENANCE TECHNOLOGY (2850-52/82)

WHO IS THIS COURSE FOR?

This level is ideal for anyone looking to begin their career in engineering, to develop their understanding of engineering skills and principles, or for school leavers with some knowledge or experience in engineering.

This course focuses on the practical skills and underpinning knowledge required to work in maintenance technology, and introduces learners to the basic principles of mathematics, science and technologies that underpin engineering.

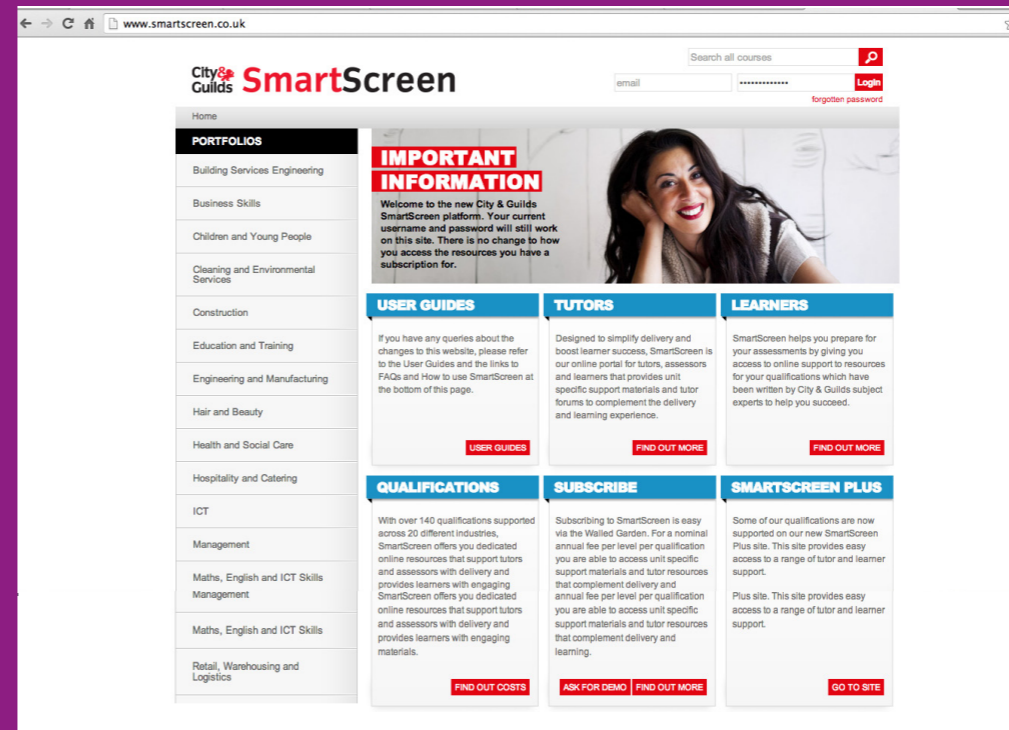
QUICK LINKS

LEVEL 2: CERTIFICATE / DIPLOMA IN MAINTENANCE TECHNOLOGY (2850-52/82)

SUPPORT MATERIALS

In addition to all our **standard support**, the following units are supported by SmartScreen:

- Unit 201** Working in engineering
- Unit 202** Principles of engineering technology
- Unit 211** Maintaining electrical wiring support systems
- Unit 222** Maintaining electrical equipment and systems
- Unit 254** Principles of maintenance technology



QUICK LINKS

LEVEL 2: CERTIFICATE / DIPLOMA IN

FABRICATION AND WELDING TECHNOLOGY (2850-53/83)

UNITS

Learners must take two (for the Certificate) or three (for the Diploma) optional units.

Mandatory Units

- 201** Working in engineering
- 202** Principles of engineering technology
- 255** Principles of fabrication and welding technology

Optional Units

- 213** Welding by manual metal arc process
- 214** Welding by MIG process
- 215** Welding by TIG process
- 216** Welding by oxy-acetylene process
- 217** Fabricating sheet metalwork

UNITS (CONT'D)

- 218** Fabricating thick plate, bar and sections
- 219** Fabricating pipework assemblies
- 220** Fabricating steelwork assemblies

ASSESSMENTS

Learners are required to successfully complete the following:

- One online multiple-choice assessment for each mandatory unit
- One short-answer question paper for each 'Principles of' specialist unit
- One assignment for each chosen optional unit

PROGRESS IN LEARNING

On completion of these courses learners may progress into employment or to the following City & Guilds and ILM courses:

- Level 3 Diploma in Engineering - Welding (2850-85)
- Level 3 Diploma in Engineering - Fabrication (2850-86)
- Level 3 Diploma in Engineering - Fabrication and Welding (2850-87)
- Level 3 Diploma in Engineering - Maintenance, Installation and Commissioning (2850-88)
- Level 3 Diploma in Engineering - Mechanical Manufacturing Engineering (2850-89)
- Level 3 Diploma in Engineering - Electrical and Electronic Engineering (2850-90)
- ILM, [the Institute of Leadership and Management](#)

PROGRESS TO A JOB

These courses can help learners to progress in a wide range of roles including:

- Electrician
- Welder / Fabricator
- Machine Operative
- Maintenance Technician

UNIT ROUTES 2850-94

Learners are able to claim unit certification should they wish to take units as individual courses.

QUICK LINKS

LEVEL 2: CERTIFICATE / DIPLOMA IN

FABRICATION AND WELDING TECHNOLOGY (2850-53/83)

WHO IS THIS COURSE FOR?

This level is ideal for anyone looking to begin their career in engineering, to develop their understanding of engineering skills and principles, or for school leavers with some knowledge or experience in engineering.

This course focuses on the practical skills and underpinning knowledge required to work in fabrication and welding technology, and introduces learners to the basic principles of mathematics, science and technologies that underpin engineering.

QUICK LINKS

LEVEL 2: CERTIFICATE / DIPLOMA IN

FABRICATION AND WELDING TECHNOLOGY (2850-53/83)

SUPPORT MATERIALS

In addition to all our **standard support**, the following units are supported by SmartScreen:

Unit 201	Working in engineering
Unit 202	Principles of engineering technology
Unit 213	Welding by Manual Metal Arc process
Unit 214	Welding by MIG process
Unit 215	Welding by TIG process
Unit 255	Principles of fabrication and welding technology

The screenshot shows the SmartScreen website interface. At the top, there is a search bar and a login section with fields for email and password, and a 'Login' button. Below the search bar is a navigation menu with 'Home' and 'PORTFOLIOS'. The 'PORTFOLIOS' menu lists various industries: Building Services Engineering, Business Skills, Children and Young People, Cleaning and Environmental Services, Construction, Education and Training, Engineering and Manufacturing, Hair and Beauty, Health and Social Care, Hospitality and Catering, ICT, Management, Maths, English and ICT Skills Management, Maths, English and ICT Skills, and Retail, Warehousing and Logistics. The main content area features an 'IMPORTANT INFORMATION' banner with a woman's image and text about the new City & Guilds SmartScreen platform. Below this are six content blocks: 'USER GUIDES', 'TUTORS', 'LEARNERS', 'QUALIFICATIONS', 'SUBSCRIBE', and 'SMARTSCREEN PLUS', each with a brief description and a 'FIND OUT MORE' or 'GO TO SITE' button.

QUICK LINKS

LEVEL 2: CERTIFICATE / DIPLOMA IN

ELECTRICAL AND ELECTRONICS TECHNOLOGY (2850-54/84)

UNITS

Learners must take two (for the Certificate) or three (for the Diploma) optional units.

Mandatory Units

- 201** Working in engineering
- 202** Principles of engineering technology
- 256** Principles of electrical and electronics technology

Optional Units

- 211** Maintaining electrical wiring support systems
- 222** Maintaining electrical equipment and systems
- 223** Wiring and testing electrical circuits
- 224** Constructing, testing and fault finding electronic circuits

ASSESSMENTS

Learners are required to successfully complete the following:

- One online multiple-choice assessment for each mandatory unit
- One short-answer question paper for each 'Principles of' specialist unit
- One assignment for each chosen optional unit

PROGRESS IN LEARNING

On completion of these courses learners may progress into employment or to the following City & Guilds and ILM courses:

- Level 3 Diploma in Engineering - Welding (2850-85)
- Level 3 Diploma in Engineering - Fabrication (2850-86)
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PROGRESS IN LEARNING (CONT'D)

- Level 3 Diploma in Engineering - Maintenance, Installation and Commissioning (2850-88)
- Level 3 Diploma in Engineering - Mechanical Manufacturing Engineering (2850-89)
- Level 3 Diploma in Engineering - Electrical and Electronic Engineering (2850-90)
- ILM, [the Institute of Leadership and Management](#)

PROGRESS TO A JOB

These courses can help learners to progress in a wide range of roles including:

- Electrician
- Welder / Fabricator

PROGRESS TO A JOB (CONT'D)

- Machine Operative
- Maintenance Technician

UNIT ROUTES 2850-94

Learners are able to claim unit certification should they wish to take units as individual courses.

QUICK LINKS

LEVEL 2: CERTIFICATE / DIPLOMA IN

ELECTRICAL AND ELECTRONICS TECHNOLOGY (2850-54/84)

WHO IS THIS COURSE FOR?

This level is ideal for anyone looking to begin their career in engineering, to develop their understanding of engineering skills and principles, or for school leavers with some knowledge or experience in engineering.

This course focuses on the practical skills and underpinning knowledge required to work in electrical and electronics technology, and introduces learners to the basic principles of mathematics, science and technologies that underpin engineering.

QUICK LINKS

LEVEL 2: CERTIFICATE / DIPLOMA IN

ELECTRICAL AND ELECTRONICS TECHNOLOGY (2850-54/84)

SUPPORT MATERIALS

In addition to all our **standard support**, the following units are supported by SmartScreen:

Unit 201	Working in engineering
Unit 202	Principles of engineering technology
Unit 211	Maintaining electrical wiring support systems
Unit 222	Maintaining electrical equipment and systems
Unit 223	Wiring and testing electrical circuits
Unit 224	Constructing, testing and fault finding electronic circuits
Unit 256	Principles of electrical and electronics technology

The screenshot shows the SmartScreen website interface. At the top, there is a search bar and a login section with fields for email and password, and a 'Login' button. Below the search bar is a navigation menu with a 'Home' link and a 'PORTFOLIOS' section listing various industries: Building Services Engineering, Business Skills, Children and Young People, Cleaning and Environmental Services, Construction, Education and Training, Engineering and Manufacturing, Hair and Beauty, Health and Social Care, Hospitality and Catering, ICT, Management, Maths, English and ICT Skills Management, Maths, English and ICT Skills, and Retail, Warehousing and Logistics. The main content area features a large 'IMPORTANT INFORMATION' banner with a photo of a woman and text stating: 'Welcome to the new City & Guilds SmartScreen platform. Your current username and password will still work on this site. There is no change to how you access the resources you have a subscription for.' Below the banner are six content blocks: 'USER GUIDES' (with a 'USER GUIDES' button), 'TUTORS' (with a 'FIND OUT MORE' button), 'LEARNERS' (with a 'FIND OUT MORE' button), 'QUALIFICATIONS' (with a 'FIND OUT COSTS' button), 'SUBSCRIBE' (with 'ASK FOR DEMO' and 'FIND OUT MORE' buttons), and 'SMARTSCREEN PLUS' (with a 'GO TO SITE' button).

QUICK LINKS

LEVEL 2: DIPLOMA IN TELECOMMUNICATION

SYSTEMS (2730-12)

UNITS

Mandatory Units

- 205** Mathematics
- 206** Fundamentals of electronic communication 1 (practical)
- 207** Communication systems and digital networks 1 (practical)
- 208** Constructing, testing and fault finding electronic circuits

Optional Units

- 203** Fundamentals of electronic communication 1 (paper-based exam)
- 204** Communication systems and digital networks 1 (paper-based exam)
- 253** Fundamentals of electronic communication 1 (online exam)
- 254** Communication systems and digital networks 1 (online exam)

UNITS (CONT'D)

Additional Optional Unit

Constructing, testing and fault finding electronic circuits

ASSESSMENTS

Learners are required to successfully complete the following:

- Two multiple-choice assessments (choice of online or paper-based)
- One short-answer question paper
- Two practical assignments
- One additional practical assignment if choosing additional optional unit

PROGRESS IN LEARNING

On completion of these courses learners may progress into employment or to the following City & Guilds and ILM courses:

- Level 3 Diploma in Telecommunication Systems (2730-13)
- ILM, [the Institute of Leadership and Management](#)

PROGRESS TO A JOB

These courses can help learners to progress in a wide range of roles including:

- Electrician
- Maintenance Technician
- Technician

UNIT ROUTES 2730-92

Learners are able to claim unit certification should they wish to take units as individual courses.

QUICK LINKS

LEVEL 2: DIPLOMA IN TELECOMMUNICATION

SYSTEMS (2730-12)

WHO IS THIS COURSE FOR?

This level is ideal for anyone looking to begin their career in telecommunications, to develop their understanding of the skills and principles required for telecommunication engineering, or for school leavers with some existing knowledge or experience.

This course focuses on electronic communication, communication systems and digital networks, introducing learners to the basic principles of mathematics, science and technologies that underpin telecommunication engineering.

QUICK LINKS

LEVEL 2: DIPLOMA IN TELECOMMUNICATION

SYSTEMS (2730-12)

SUPPORT MATERIALS

In addition to all our **standard support**, the following units are supported by SmartScreen:

Unit 203 / 206 / 253 Fundamentals of electronic communication 1

Unit 204 / 207 / 254 Communication systems and digital networks 1

Unit 205 Mathematics

The screenshot shows the SmartScreen website interface. At the top, there is a search bar and a login section with fields for email and password, and a 'Login' button. Below the search bar is a navigation menu with a 'Home' link and a 'PORTFOLIOS' section listing various industries: Building Services Engineering, Business Skills, Children and Young People, Cleaning and Environmental Services, Construction, Education and Training, Engineering and Manufacturing, Hair and Beauty, Health and Social Care, Hospitality and Catering, ICT, Management, Maths, English and ICT Skills Management, Maths, English and ICT Skills, and Retail, Warehousing and Logistics. The main content area features a large 'IMPORTANT INFORMATION' banner with a woman's image and text stating that current usernames and passwords will still work. Below this are three columns: 'USER GUIDES' with a 'USER GUIDES' button, 'TUTORS' with a 'FIND OUT MORE' button, and 'LEARNERS' with a 'FIND OUT MORE' button. At the bottom, there are three more columns: 'QUALIFICATIONS' with a 'FIND OUT COSTS' button, 'SUBSCRIBE' with 'ASK FOR DEMO' and 'FIND OUT MORE' buttons, and 'SMARTSCREEN PLUS' with a 'GO TO SITE' button.

QUICK LINKS

LEVEL 3: DIPLOMA IN ENGINEERING

WELDING (2850-85)

UNITS

Learners must take three optional units.

Mandatory Units

- 301** Engineering health and safety
- 302** Engineering principles
- 353** Principles of welding

Optional Units

- 310** Manual metal arc welding of materials
- 311** MIG welding of materials
- 312** TIG welding of materials
- 330** Organising and managing engineering operations
- 336** MIG welding of aluminium
- 337** TIG welding of aluminium
- 338** Flux-cored arc welding materials
- 351** Advanced mathematics and science

ASSESSMENTS

Learners are required to successfully complete the following:

- One online multiple-choice assessment for each mandatory unit
- One short-answer question paper for each 'Principles of' specialist unit
- One assignment for each chosen optional unit
- One short-answer question paper if choosing the 'Advanced mathematics and science' unit

PROGRESS IN LEARNING

On completion of these courses learners may progress into employment or to the following City & Guilds and ILM courses:

- Level 4 Diploma in Mechanical Engineering

PROGRESS IN LEARNING (CONT'D)

- Level 4 Diploma in Electrical and Electronic Engineering
- Level 4 Diploma in Civil Engineering
- ILM, [the Institute of Leadership and Management](#)

PROGRESS TO A JOB

These courses can help learners to progress in a wide range of roles including:

- Senior Technician
- Foreman
- Engineer Technician
- Operational Executive

UNIT ROUTES 2850-95

Learners are able to claim unit certification should they wish to take units as individual courses.

QUICK LINKS

LEVEL 3: DIPLOMA IN ENGINEERING

WELDING (2850-85)

WHO IS THIS COURSE FOR?

This level is ideal for learners with a firm understanding and practical experience of engineering technologies and principles, who require formal recognition of their existing abilities or who wish to specialise within a specific engineering sector.

This course focuses on the practical skills and underpinning knowledge required to work in welding at an advanced level, including specific welding procedures and the use of basic calculations and engineering science.

City & Guilds is working with the UK's leading professional institutions to ensure that these courses are aligned with the requirements for Engineer Technician registration.

QUICK LINKS

LEVEL 3: DIPLOMA IN ENGINEERING

WELDING (2850-85)

SUPPORT MATERIALS

In addition to all our **standard support**, the following units are supported by SmartScreen:

- Unit 301** Engineering health and safety
- Unit 302** Engineering principles
- Unit 311** MIG welding of materials
- Unit 312** TIG welding of materials
- Unit 324** Machining materials by milling
- Unit 330** Organising and managing engineering operations
- Unit 351** Advanced mathematics and science
- Unit 353** Principles of welding



QUICK LINKS

LEVEL 3: DIPLOMA IN ENGINEERING

FABRICATION (2850-86)

UNITS

Learners must take three optional units.

Mandatory Units

- 301** Engineering health and safety
- 302** Engineering principles
- 354** Principles of fabrication

Optional Units

- 313** Platework fabrication of materials
- 314** Sheet metalwork fabrication of materials
- 315** Fabrication and erection of structural steelwork
- 316** Pattern development for fabrication
- 330** Organising and managing engineering operations
- 351** Advanced mathematics and science

ASSESSMENTS

Learners are required to successfully complete the following:

- One online multiple-choice assessment for each mandatory unit
- One short-answer question paper for each 'Principles of' specialist unit
- One assignment for each chosen optional unit
- One short-answer question paper if choosing the 'Advanced mathematics and science' unit

PROGRESS IN LEARNING

On completion of these courses learners may progress into employment or to the following City & Guilds and ILM courses:

- Level 4 Diploma in Mechanical Engineering

PROGRESS IN LEARNING (CONT'D)

- Level 4 Diploma in Electrical and Electronic Engineering
- Level 4 Diploma in Civil Engineering
- ILM, [the Institute of Leadership and Management](#)

PROGRESS TO A JOB

These courses can help learners to progress in a wide range of roles including:

- Senior Technician
- Foreman
- Engineer Technician
- Operational Executive

UNIT ROUTES 2850-95

Learners are able to claim unit certification should they wish to take units as individual courses.

QUICK LINKS

LEVEL 3: DIPLOMA IN ENGINEERING

FABRICATION (2850-86)

WHO IS THIS COURSE FOR?

This level is ideal for learners with a firm understanding and practical experience of engineering technologies and principles, who require formal recognition of their existing abilities or who wish to specialise within a specific engineering sector.

This course focuses on the practical skills and underpinning knowledge required to work in fabrication at an advanced level, including specific fabrication procedures and the use of basic calculations and engineering science.

City & Guilds is working with the UK's leading professional institutions to ensure that these courses are aligned with the requirements for Engineer Technician registration.

QUICK LINKS

LEVEL 3: DIPLOMA IN ENGINEERING

FABRICATION (2850-86)

SUPPORT MATERIALS

In addition to all our **standard support**, the following units are supported by SmartScreen:

- Unit 301** Engineering health and safety
- Unit 302** Engineering principles
- Unit 330** Organising and managing engineering operations
- Unit 351** Advanced mathematics and science
- Unit 354** Principles of fabrication



QUICK LINKS

LEVEL 3: DIPLOMA IN FABRICATION

AND WELDING (2850-87)

UNITS

Learners must take three optional units.

Mandatory Units

- 301** Engineering health and safety
- 302** Engineering principles
- 355** Principles of fabrication and welding

Optional Units

- 310** Manual metal arc welding of materials
- 311** MIG welding of materials
- 312** TIG welding of materials
- 313** Platework fabrication of materials
- 314** Sheet metalwork fabrication of materials
- 315** Fabrication and erection of structural steelwork
- 316** Pattern development for fabrication
- 330** Organising and managing engineering operations

UNITS (CONT'D)

- 336** MIG welding of aluminium
- 337** TIG welding of aluminium
- 338** Flux-cored arc welding materials
- 351** Advanced mathematics and science

ASSESSMENTS

Learners are required to successfully complete the following:

- One online multiple-choice assessment for each mandatory unit
- One short-answer question paper for each 'Principles of' specialist unit
- One assignment for each chosen optional unit
- One short-answer question paper if choosing the 'Advanced mathematics and science' unit

PROGRESS IN LEARNING

On completion of these courses learners may progress into employment or to the following City & Guilds and ILM courses:

- Level 4 Diploma in Mechanical Engineering
- Level 4 Diploma in Electrical and Electronic Engineering
- Level 4 Diploma in Civil Engineering
- ILM, [the Institute of Leadership and Management](#)

PROGRESS TO A JOB

These courses can help learners to progress in a wide range of roles including:

- Senior Technician

PROGRESS TO A JOB (CONT'D)

- Foreman
- Engineer Technician
- Operational Executive

UNIT ROUTES 2850-95

Learners are able to claim unit certification should they wish to take units as individual courses.

QUICK LINKS

LEVEL 3: DIPLOMA IN FABRICATION

AND WELDING (2850-87)

WHO IS THIS COURSE FOR?

This level is ideal for learners with a firm understanding and practical experience of engineering technologies and principles, who require formal recognition of their existing abilities or who wish to specialise within a specific engineering sector.

This course focuses on the practical skills and underpinning knowledge required to work in fabrication and welding at an advanced level, including specific fabrication and welding procedures and the use of basic calculations and engineering science.

City & Guilds is working with the UK's leading professional institutions to ensure that these courses are aligned with the requirements for Engineer Technician registration.

QUICK LINKS

LEVEL 3: DIPLOMA IN FABRICATION AND WELDING (2850-87)

SUPPORT MATERIALS

In addition to all our **standard support**, the following units are supported by SmartScreen:

- Unit 301** Engineering health and safety
- Unit 302** Engineering principles
- Unit 311** MIG welding of materials
- Unit 312** TIG welding of materials
- Unit 330** Organising and managing engineering operations
- Unit 351** Advanced mathematics and science
- Unit 355** Principles of fabrication and welding



QUICK LINKS

LEVEL 3: DIPLOMA IN MAINTENANCE, INSTALLATION AND COMMISSIONING (2850-88)

UNITS

Learners must take three optional units.

Mandatory Units

- 301** Engineering health and safety
- 302** Engineering principles
- 356** Principles of engineering maintenance, installation and commissioning

Optional Units

- 317** Maintenance of machine systems
- 318** Maintenance of utility systems
- 319** Maintenance of plant services
- 320** Maintenance of hydraulic systems
- 321** Maintenance of pneumatic systems
- 322** Power generation systems and ancillary equipment

UNITS (CONT'D)

- 330** Organising and managing engineering operations
- 332** Mechatronics systems principles and fault finding
- 351** Advanced mathematics and science

ASSESSMENTS

Learners are required to successfully complete the following:

- One online multiple-choice assessment for each mandatory unit
- One short-answer question paper for each 'Principles of' specialist unit
- One assignment for each chosen optional unit
- One short-answer question paper if choosing the 'Advanced mathematics and science' unit

PROGRESS IN LEARNING

On completion of these courses learners may progress into employment or to the following City & Guilds and ILM courses:

- Level 4 Diploma in Mechanical Engineering
- Level 4 Diploma in Electrical and Electronic Engineering
- Level 4 Diploma in Civil Engineering
- ILM, [the Institute of Leadership and Management](#)

PROGRESS TO A JOB

These courses can help learners to progress in a wide range of roles including:

- Senior Technician

PROGRESS TO A JOB (CONT'D)

- Foreman
- Engineer Technician
- Operational Executive

UNIT ROUTES 2850-95

Learners are able to claim unit certification should they wish to take units as individual courses.

QUICK LINKS

LEVEL 3: DIPLOMA IN MAINTENANCE, INSTALLATION AND COMMISSIONING (2850-88)

WHO IS THIS COURSE FOR?

This level is ideal for learners with a firm understanding and practical experience of engineering technologies and principles, who require formal recognition of their existing abilities or who wish to specialise within a specific engineering sector.

This course focuses on the practical skills and underpinning knowledge required to work in maintenance, installation and commissioning at an advanced level, including specific maintenance procedures and the use of basic calculations and engineering science.

City & Guilds is working with the UK's leading professional institutions to ensure that these courses are aligned with the requirements for Engineer Technician registration.

QUICK LINKS

LEVEL 3: DIPLOMA IN MAINTENANCE, INSTALLATION AND COMMISSIONING (2850-88)

SUPPORT MATERIALS

In addition to all our **standard support**, the following units are supported by SmartScreen:

- Unit 301** Engineering health and safety
- Unit 302** Engineering principles
- Unit 330** Organising and managing engineering operations
- Unit 351** Advanced mathematics and science
- Unit 356** Principles of engineering maintenance, installation and commissioning

The screenshot shows the SmartScreen website interface. At the top, there is a search bar and a login section. Below the search bar is a navigation menu with the following items: Home, PORTFOLIOS, Building Services Engineering, Business Skills, Children and Young People, Cleaning and Environmental Services, Construction, Education and Training, Engineering and Manufacturing, Hair and Beauty, Health and Social Care, Hospitality and Catering, ICT, Management, Maths, English and ICT Skills Management, Maths, English and ICT Skills, and Retail, Warehousing and Logistics. The main content area features an 'IMPORTANT INFORMATION' banner with a woman's image and a text box stating: 'Welcome to the new City & Guilds SmartScreen platform. Your current username and password will still work on this site. There is no change to how you access the resources you have a subscription for.' Below this are three columns: 'USER GUIDES' with a 'USER GUIDES' button, 'TUTORS' with a 'FIND OUT MORE' button, and 'LEARNERS' with a 'FIND OUT MORE' button. At the bottom, there are three more columns: 'QUALIFICATIONS' with a 'FIND OUT COSTS' button, 'SUBSCRIBE' with 'ASK FOR DEMO' and 'FIND OUT MORE' buttons, and 'SMARTSCREEN PLUS' with a 'GO TO SITE' button.

QUICK LINKS

LEVEL 3: DIPLOMA IN MECHANICAL MANUFACTURING

AND ENGINEERING (2850-89)

UNITS

Learners must take three optional units.

Mandatory Units

- 301** Engineering health and safety
- 302** Engineering principles
- 357** Principles of mechanical manufacturing engineering

Optional Units

- 323** Machining materials by turning
- 324** Machining materials by milling
- 325** Machining materials by grinding
- 326** CNC machining of materials
- 327** Detailed fitting of materials
- 328** Maintenance of electrical equipment and systems
- 329** Produce drawings using CAD
- 330** Organising and managing engineering operations
- 351** Advanced mathematics and science

ASSESSMENTS

Learners are required to successfully complete the following:

- One online multiple-choice assessment for each mandatory unit
- One short-answer question paper each 'Principles of' specialist unit
- One assignment for each chosen optional unit
- One short-answer question paper if choosing the 'Advanced mathematics and science' unit

PROGRESS IN LEARNING

On completion of these courses learners may progress into employment or to the following City & Guilds and ILM courses:

- Level 4 Diploma in Mechanical Engineering

PROGRESS IN LEARNING (CONT'D)

- Level 4 Diploma in Electrical and Electronic Engineering
- Level 4 Diploma in Civil Engineering
- ILM, [the Institute of Leadership and Management](#)

PROGRESS TO A JOB

These courses can help learners to progress in a wide range of roles including:

- Senior Technician
- Foreman
- Engineer Technician
- Operational Executive

UNIT ROUTES 2850-95

Learners are able to claim unit certification should they wish to take units as individual courses.

QUICK LINKS

LEVEL 3: DIPLOMA IN MECHANICAL MANUFACTURING AND ENGINEERING (2850-89)

WHO IS THIS COURSE FOR?

This level is ideal for learners with a firm understanding and practical experience of engineering technologies and principles, who require formal recognition of their existing abilities or who wish to specialise within a specific engineering sector.

This course focuses on the practical skills and underpinning knowledge required to work in mechanical manufacturing and engineering at an advanced level, including specific manufacturing procedures and the use of basic calculations and engineering science.

City & Guilds is working with the UK's leading professional institutions to ensure that these courses are aligned with the requirements for Engineer Technician registration.

QUICK LINKS

LEVEL 3: DIPLOMA IN MECHANICAL MANUFACTURING AND ENGINEERING (2850-89)

SUPPORT MATERIALS

In addition to all our **standard support**, the following units are supported by SmartScreen:

Unit 301	Engineering health and safety
Unit 302	Engineering principles
Unit 324	Machining materials by milling
Unit 325	Machining materials by grinding
Unit 326	CNC machining of materials
Unit 327	Detailed fitting of materials
Unit 330	Organising and managing engineering operations
Unit 351	Advanced mathematics and science
Unit 357	Principles of mechanical manufacturing engineering

The screenshot shows the SmartScreen website interface. At the top, there is a search bar and a login section. Below the search bar is a navigation menu with categories like 'PORTFOLIOS', 'User Guides', 'Tutors', 'Learners', 'Qualifications', 'Subscribe', and 'SmartScreen Plus'. The main content area features a large 'IMPORTANT INFORMATION' banner with a woman's image, followed by three columns of content: 'USER GUIDES', 'TUTORS', and 'LEARNERS'. Below these are three more columns: 'QUALIFICATIONS', 'SUBSCRIBE', and 'SMARTSCREEN PLUS'. Each column contains descriptive text and a 'FIND OUT MORE' or 'GO TO SITE' button.

QUICK LINKS

LEVEL 3: DIPLOMA IN ELECTRICAL AND ELECTRONICS

TECHNOLOGY (2850-90)

UNITS

Learners must take three optional units.

Mandatory Units

- 301** Engineering health and safety
- 302** Engineering principles
- 358** Principles of electrical and electronic engineering

Optional Units

- 328** Maintenance of electrical equipment and systems
- 330** Organising and managing engineering operations
- 332** Mechatronics systems principles and fault finding
- 333** Computer automated and robotic systems principles and control
- 334** Power supply, and analogue and digital circuit principles and fault
- 335** Electronic power control principles and practice
- 351** Advanced mathematics and science

ASSESSMENTS

Learners are required to successfully complete the following:

- One online multiple-choice assessment for each mandatory unit
- One short-answer question paper each 'Principles of' specialist unit
- One assignment for each chosen optional unit
- One short-answer question paper if choosing the 'Advanced mathematics and science' unit

PROGRESS IN LEARNING

On completion of these courses learners may progress into employment or to the following City & Guilds and ILM courses:

- Level 4 Diploma in Mechanical Engineering

PROGRESS IN LEARNING (CONT'D)

- Level 4 Diploma in Electrical and Electronic Engineering
- Level 4 Diploma in Civil Engineering
- ILM, [the Institute of Leadership and Management](#)

PROGRESS TO A JOB

These courses can help learners to progress in a wide range of roles including:

- Senior Technician
- Foreman
- Engineer Technician
- Operational Executive

UNIT ROUTES 2850-95

Learners are able to claim unit certification should they wish to take units as individual courses.

QUICK LINKS

LEVEL 3: DIPLOMA IN ELECTRICAL AND ELECTRONICS

TECHNOLOGY (2850-90)

WHO IS THIS COURSE FOR?

This level is ideal for learners with a firm understanding and practical experience of engineering technologies and principles, who require formal recognition of their existing abilities or who wish to specialise within a specific engineering sector.

This course focuses on the practical skills and underpinning knowledge required to work in electrical and electronic engineering at an advanced level, including electrical and electronic procedures and the use of basic calculations and engineering science.

City & Guilds is working with the UK's leading professional institutions to ensure that these courses are aligned with the requirements for Engineer Technician registration.

QUICK LINKS

LEVEL 3: DIPLOMA IN ELECTRICAL AND ELECTRONICS

TECHNOLOGY (2850-90)

SUPPORT MATERIALS

In addition to all our **standard support**, the following units are supported by SmartScreen:

- Unit 301** Engineering health and safety
- Unit 302** Engineering principles
- Unit 330** Organising and managing engineering operations
- Unit 334** Power supply, and analogue and digital circuit principles and fault finding
- Unit 335** Electronic power control principles and practice
- Unit 351** Advanced mathematics and science
- Unit 358** Principles of electrical and electronic engineering

The screenshot shows the SmartScreen website interface. At the top, there is a search bar and a login section. Below the navigation menu, there is a prominent 'IMPORTANT INFORMATION' banner with a photo of a woman. The main content area is divided into several columns: 'PORTFOLIOS' (listing various industries like Building Services Engineering, Business Skills, etc.), 'USER GUIDES', 'TUTORS', 'LEARNERS', 'QUALIFICATIONS', 'SUBSCRIBE', and 'SMARTSCREEN PLUS'. Each of these columns contains brief descriptions and 'FIND OUT MORE' buttons.

QUICK LINKS

LEVEL 3: DIPLOMA IN TELECOMMUNICATION

SYSTEMS (2730-13)

UNITS

Learners must either choose radio systems or both programming principles units.

Mandatory Units

- 301** Fundamentals of electronic communication 2
- 302** Communication systems and digital networks 2
- 303** Fundamentals of electronic communication 3
- 304** Communication systems and digital networks 3
- 307** Advanced mathematics
- 352** Communication systems and digital networks 2 - practical
- 354** Communication systems and digital networks 3 - practical

Optional Units

- 305** Radio systems
- 306** Programming principles

UNITS (CONT'D)

- 356** Programming principles (practical)

Additional Optional Unit

- 308** Maintenance of electrical equipment and systems

ASSESSMENTS

Learners are required to successfully complete the following:

- Six short-answer question papers.
- Two or three practical assignments
- One additional practical assignment if choosing additional optional unit

PROGRESS IN LEARNING

On completion of these courses learners may progress into employment or to the following City & Guilds and ILM courses:

- Level 4 Diploma in Mechanical Engineering
- Level 4 Diploma in Electrical and Electronic Engineering
- Level 4 Diploma in Civil Engineering
- ILM, [the Institute of Leadership and Management](#)

PROGRESS TO A JOB

These courses can help learners to progress in a wide range of roles including:

PROGRESS TO A JOB

- Electrician
- Maintenance Technician
- Technician
- Systems Executive

UNIT ROUTES 2730-93

Learners are able to claim unit certification should they wish to take units as individual courses.

QUICK LINKS

LEVEL 3: DIPLOMA IN TELECOMMUNICATION

SYSTEMS (2730-13)

WHO IS THIS COURSE FOR?

This level is ideal for learners with a firm understanding and practical experience of telecommunication systems and principles, who require formal recognition of their existing abilities or who wish to advance their skills and knowledge in telecommunication engineering.

This course focuses on the practical skills and underpinning knowledge required to work in telecommunications at an advanced level, including communication systems and digital networks, radio systems and programming, and the use of basic calculations and telecommunication science.

QUICK LINKS

LEVEL 3: DIPLOMA IN TELECOMMUNICATION

SYSTEMS (2730-13)

SUPPORT MATERIALS

In addition to all our **standard support**, the following units are supported by SmartScreen:

- Unit 301** Fundamentals of Electronic Communication 2
- Unit 302/352** Communication Systems and Digital Networks 2
- Unit 303** Fundamentals of Electronic Communication 3
- Unit 304/354** Communication Systems and Digital Networks 3
- Unit 305** Radio Systems
- Unit 306/356** Programming principles



QUICK LINKS

LEVEL 4: DIPLOMAS IN MECHANICAL, ELECTRICAL AND ELECTRONIC AND CIVIL ENGINEERING

COMING SOON

City & Guilds will be launching Level 4 courses in Mechanical, Electrical and Electronic and Civil Engineering in 2014.

These courses will provide learners with the knowledge and high level technical skills required to advance their career in the Engineering industry, and will come with online teaching and learning materials, as well as guidance for delivering the qualification assessments.

We are currently developing these courses in consultation with a number of international centres, as well as UK universities, to ensure that the courses meet both employer and academic requirements. Further information about these courses will be available soon.

LEVEL 5: DIPLOMAS IN MECHANICAL, ELECTRICAL AND ELECTRONIC AND CIVIL ENGINEERING

COMING SOON

City & Guilds will be launching Level 5 courses in Mechanical, Electrical and Electronic and Civil Engineering in 2014.

These courses will provide learners with the knowledge and high level technical skills required to advance their career in the Engineering industry, and will come with online teaching and learning materials, as well as guidance for delivering the qualification assessments.

We are currently developing these courses in consultation with a number of international centres, as well as UK universities, to ensure that the courses meet both employer and academic requirements. Further information about these courses will be available soon.

LEVEL 5: DIPLOMA IN TELECOMMUNICATION

SYSTEMS (2730-03)

UNITS

Learners must either choose both radio systems units or both software engineering units.

Mandatory Units

- 021** Telecommunications project
- 022** Advanced telecommunication systems

Optional Units

- 023** Advanced radio systems
- 024** Advanced radio systems (practical)
- 025** Software engineering
- 026** Software engineering (practical)

Additional Optional Unit

- 027** Advanced mathematics 2

ASSESSMENTS

Learners are required to successfully complete the following:

- Two short answer question papers
- One additional short answer question paper if choosing additional optional unit

PROGRESS IN LEARNING

On completion of these courses learners may progress into employment or to the following City & Guilds and ILM courses:

- Level 6 Graduate Diploma in Electronic and Telecommunication Engineering
- Relevant higher level courses
- ILM, [the Institute of Leadership and Management](#)

PROGRESS TO A JOB

These courses can help learners to progress in a wide range of roles including:

- Senior Electrician
- Senior Systems Executive
- Telecommunications Network Manager
- Network Planner
- Radio Systems Design Engineer
- Satellite Communications Engineer

QUICK LINKS

LEVEL 5: DIPLOMA IN TELECOMMUNICATION

SYSTEMS (2730-03)

WHO IS THIS COURSE FOR?

This level is ideal for learners preparing for, or working in, first-level management, with a sound knowledge of technical principles in one or more specialised branches of telecommunications. It is also appropriate for someone who wishes to receive specialised training at a high level.

This course focuses on advanced telecommunication systems, specialising in either advanced radio systems or software engineering. Learners will have the potential to fulfil the role of senior technician with a high level of responsibility requiring the use of personal initiative and critical judgement.

QUICK LINKS

LEVEL 6: GRADUATE DIPLOMA IN CIVIL

ENGINEERING (9210-01)

UNITS

Learners must take four optional units.

Mandatory Units

- 100** Engineering mathematics
- 101** Management for engineers
- 139** Project 1

Pathway Mandatory Units

- 102** Mechanics of solids and basic structural analysis
- 103** Hydraulics and hydrology
- 104** Engineering surveying
- 105** Soil mechanics and engineering geology

Optional Units

- 106** Building engineering
- 107** Quantity surveying
- 108** Highway engineering
- 109** Irrigation engineering

UNITS (CONT'D)

- 110** Water and waste engineering
- 111** Structural analysis

ASSESSMENTS

Learners are required to successfully complete the following:

- One short-answer question paper for each unit
- A practical assessment for required units (for more information please refer to the handbook)

PROGRESS IN LEARNING

On completion of these courses learners may progress into employment or to the following City & Guilds and ILM courses:

- Level 7 Post Graduate Diploma in Engineering
- Relevant higher level courses
- ILM, [the Institute of Leadership and Management](#)

PROGRESS TO A JOB

These courses can help learners to progress towards:

- Becoming an incorporated engineer

QUICK LINKS

LEVEL 6: GRADUATE DIPLOMA IN CIVIL

ENGINEERING (9210-01)

WHO IS THIS COURSE FOR?

This level is ideal for learners preparing for, or working in, management, with a sound knowledge of technical principles in one or more specialised branches of engineering. The Level 6 Graduate Diplomas in Engineering are set at, and an alternative to, the standard of the final (third) year of a British BEng (Honours) degree course.

The City & Guilds Graduate Diplomas in Engineering have been developed to provide a flexible route to career success as a professional engineer. City & Guilds is working with the UK's leading professional institutions to ensure that these courses are aligned with the requirements for Incorporated Engineer registration.

QUICK LINKS

LEVEL 6: GRADUATE DIPLOMA IN MECHANICAL

ENGINEERING (9210-01)

UNITS

Learners must take four optional units.

Mandatory Units

- 100** Engineering mathematics
- 101** Management for engineers
- 139** Project 1

Pathway Mandatory Units

- 128** Applied thermodynamics
- 129** Fluid mechanics
- 130** Mechanics of machines and strength of materials
- 131** Materials

Optional Units

- 132** Manufacturing technology
- 133** Analysis and design of manufacturing technology
- 134** Hydraulics and hydraulic machines

UNITS (CONT'D)

- 135** Mechanics of solids
- 136** Control systems
- 137** Electro techniques
- 138** Quality and reliability engineering

ASSESSMENTS

Learners are required to successfully complete the following:

- One short-answer question paper for each unit
- A practical assessment for required units (for more information please refer to the handbook)

PROGRESS IN LEARNING

On completion of these courses learners may progress into employment or to the following City & Guilds and ILM courses:

- Level 7 Post Graduate Diploma in Engineering
- Relevant higher level courses
- ILM, [the Institute of Leadership and Management](#)

PROGRESS TO A JOB

These courses can help learners to progress towards:

- Becoming an incorporated engineer

QUICK LINKS

LEVEL 6: GRADUATE DIPLOMA IN MECHANICAL ENGINEERING (9210-01)

WHO IS THIS COURSE FOR?

This level is ideal for learners preparing for, or working in, management, with a sound knowledge of technical principles in one or more specialised branches of engineering. The Level 6 Graduate Diplomas in Engineering are set at, and an alternative to, the standard of the final (third) year of a British BEng (Honours) degree course.

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QUICK LINKS

LEVEL 6: GRADUATE DIPLOMA IN ELECTRICAL ENGINEERING (9210-01)

UNITS

Learners must take four optional units.

Mandatory Units

- 100** Engineering mathematics
- 101** Management for engineers
- 139** Project 1

Pathway Mandatory Units

- 112** Circuits and waves
- 114** Electrical energy system
- 115** Electrical machines and drives
- 116** Electronics and telecommunications

Optional Units

- 118** Communication systems
- 121** Computer networks
- 123** Computer architecture and operating systems

UNITS (CONT'D)

- 124** Database management
- 127** Software engineering
- 136** Control systems

ASSESSMENTS

Learners are required to successfully complete the following:

- One short-answer question paper for each unit
- A practical assessment for required units (for more information please refer to the handbook)

PROGRESS IN LEARNING

On completion of these courses learners may progress into employment or to the following City & Guilds and ILM courses:

- Level 7 Post Graduate Diploma in Engineering
- Relevant higher level courses
- ILM, [the Institute of Leadership and Management](#)

PROGRESS TO A JOB

These courses can help learners to progress towards:

- Becoming an incorporated engineer

QUICK LINKS

LEVEL 6: GRADUATE DIPLOMA IN ELECTRICAL ENGINEERING (9210-01)

WHO IS THIS COURSE FOR?

This level is ideal for learners preparing for, or working in, management, with a sound knowledge of technical principles in one or more specialised branches of engineering. The Level 6 Graduate Diplomas in Engineering are set at, and an alternative to, the standard of the final (third) year of a British BEng (Honours) degree course.

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QUICK LINKS

LEVEL 6: GRADUATE DIPLOMA IN ELECTRONIC AND TELECOMMUNICATION ENGINEERING (9210-01)

UNITS

Learners must take four optional units.

Mandatory Units

- 100** Engineering mathematics
- 101** Management for engineers
- 139** Project 1

Pathway Mandatory Units

- 112** Circuits and waves
- 113** Electrical machines and electrical energy system fundamentals
- 117** Electronic systems
- 118** Communication systems

Optional Units

- 119** Wireless and mobile communication
- 121** Computer networks
- 123** Computer architecture and operating systems

UNITS (CONT'D)

- 125** Signals and systems
- 127** Software engineering
- 136** Control systems

ASSESSMENTS

Learners are required to successfully complete the following:

- One short-answer question paper for each unit
- A practical assessment for required units (for more information please refer to the handbook)

PROGRESS IN LEARNING

On completion of these courses learners may progress into employment or to the following City & Guilds and ILM courses:

- Level 7 Post Graduate Diploma in Engineering
- Relevant higher level courses
- ILM, [the Institute of Leadership and Management](#)

PROGRESS TO A JOB

These courses can help learners to progress towards:

- Becoming an incorporated engineer

QUICK LINKS

LEVEL 6: GRADUATE DIPLOMA IN ELECTRONIC AND TELECOMMUNICATION ENGINEERING (9210-01)

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QUICK LINKS

LEVEL 7: POST GRADUATE DIPLOMA IN CIVIL

ENGINEERING (9210-02)

UNITS

Learners must take three optional units.

Mandatory Units

- 200** Engineering analysis
- 229** Project 2

Pathway Mandatory Units

- 201** Construction engineering and management
- 202** Environmental engineering
- 203** Computational mechanics using finite element method

Optional Units

- 204** Geotechnical engineering
- 205** Built environment 1
- 206** Structural design
- 207** Fluid mechanics and coastal engineering

UNITS (CONT'D)

- 208** Built environment 2
- 111** Structural analysis
- 138** Quality and reliability engineering

ASSESSMENTS

Learners are required to successfully complete the following:

- One short-answer question paper for each unit
- A practical assessment for required units (for more information please refer to the handbook)

PROGRESS IN LEARNING

On completion of these courses learners may progress into employment or to the following City & Guilds courses:

- Relevant higher level courses

PROGRESS TO A JOB

These courses can help learners to progress towards:

- Becoming a chartered engineer

QUICK LINKS

LEVEL 7: POST GRADUATE DIPLOMA IN CIVIL ENGINEERING (9210-02)

WHO IS THIS COURSE FOR?

This level is ideal for learners preparing for, or working in, management, with a sound knowledge of technical principles in one or more specialised branches of engineering. The Level 7 Post Graduate Diplomas in Engineering are set at, and an alternative to, the standard of the final (fourth) year of a British BEng degree course.

The City & Guilds Post Graduate Diplomas in Engineering have been developed to provide a flexible route to career success as a professional engineer. City & Guilds is working with the UK's leading professional institutions to ensure that these courses are aligned with the requirements for Chartered Engineer registration.

QUICK LINKS

LEVEL 7: POST GRADUATE DIPLOMA IN ELECTRICAL ENGINEERING (9210-02)

UNITS

Learners must take three optional units.

Mandatory Units

- 200 Engineering analysis
- 229 Project 2

Pathway Mandatory Units

- 209 Power system economics and planning
- 210 High voltage engineering
- 211 Fields and network theory

Optional Units

- 213 Digital system design
- 215 Modern control systems
- 217 Power electronics
- 218 Internet technologies
- 219 Computer system engineering

ASSESSMENTS

Learners are required to successfully complete the following:

- One short-answer question paper for each unit
- A practical assessment for required units (for more information please refer to the handbook)

PROGRESS IN LEARNING

On completion of these courses learners may progress into employment or to the following City & Guilds courses:

- Relevant higher level courses

PROGRESS TO A JOB

These courses can help learners to progress towards:

- Becoming a chartered engineer

QUICK LINKS

LEVEL 7: POST GRADUATE DIPLOMA IN ELECTRICAL ENGINEERING (9210-02)

WHO IS THIS COURSE FOR?

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QUICK LINKS

LEVEL 7: POST GRADUATE DIPLOMA IN ELECTRONIC AND TELECOMMUNICATION ENGINEERING (9210-02)

UNITS

Learners must take three optional units.

Mandatory Units

200 Engineering analysis

229 Project 2

Pathway Mandatory Units

212 Data communication

213 Digital system design

214 Telecommunication systems engineering

Optional Units

215 Modern control systems

216 RF and microwave engineering

217 Power electronics

218 Internet technologies

219 Computer system engineering

ASSESSMENTS

Learners are required to successfully complete the following:

- One short-answer question paper for each unit
- A practical assessment for required units (for more information please refer to the handbook)

PROGRESS IN LEARNING

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The City & Guilds Post Graduate Diplomas in Engineering have been developed to provide a flexible route to career success as a professional engineer. City & Guilds is working with the UK's leading professional institutions to ensure that these courses are aligned with the requirements for Chartered Engineer registration.

QUICK LINKS

LEVEL 7: POST GRADUATE DIPLOMA IN MECHANICAL

ENGINEERING (9210-02)

UNITS

Learners must take three optional units.

Mandatory Units

- 200 Engineering analysis
- 229 Project 2

Pathway Mandatory Units

- 220 Computational mechanics using FEM
- 221 Heat and mass transfer
- 222 Mechanical engineering design

Optional Units

- 223 Mechatronics
- 224 Dynamics of mechanical systems
- 225 Advanced manufacturing technology
- 226 Design and operation of marine vehicles

UNITS (CONT'D)

- 227 Automobile engineering
- 228 Aerospace engineering

ASSESSMENTS

Learners are required to successfully complete the following:

- One short-answer question paper for each unit
- A practical assessment for required units (for more information please refer to the handbook)

PROGRESS IN LEARNING

On completion of these courses learners may progress into employment or to the following City & Guilds courses:

- Relevant higher level courses

PROGRESS TO A JOB

These courses can help learners to progress towards:

- Becoming a chartered engineer

QUICK LINKS

LEVEL 7: POST GRADUATE DIPLOMA IN MECHANICAL ENGINEERING (9210-02)

WHO IS THIS COURSE FOR?

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The City & Guilds Post Graduate Diplomas in Engineering have been developed to provide a flexible route to career success as a professional engineer. City & Guilds is working with the UK's leading professional institutions to ensure that these courses are aligned with the requirements for Chartered Engineer registration.

QUICK LINKS

CUSTOMER SUPPORT



CUSTOMER SERVICE

At City & Guilds, we take care to ensure that all enquiries and complaints are handled promptly and courteously. Our Customer Relations team is on hand from Monday to Friday between 8am and 6pm GMT, and they'll always seek to resolve any issue immediately.

If that isn't possible, you'll be given a Service Request ID and can expect a resolution within five working days.

We'll always respond to emails, letters and faxes within three working days of receipt, unless you have a complaint, in which case we'll contact you within two working days.

What's more, if we're unable to resolve your complaint within eight days, you'll be given an action plan to monitor progress and keep you informed.

We'll also ask for feedback on how your complaint was handled – just to make sure you're completely satisfied.

CUSTOMER SUPPORT

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CUSTOMER SUPPORT

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CUSTOMER SUPPORT

MIDDLE EAST

Middle East

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The Dubai office is open

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CUSTOMER SUPPORT

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CUSTOMER SUPPORT

INDIA

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CUSTOMER SUPPORT

JAMAICA, TRINIDAD AND TOBAGO

We have two City & Guilds representatives for the Caribbean based in Trinidad and Jamaica.

Trinidad and Tobago

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Jamaica

Marva Duncanson

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CUSTOMER SUPPORT

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CUSTOMER SUPPORT

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CUSTOMER SUPPORT

EAST ASIA AND PACIFIC

Hong Kong

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CUSTOMER SUPPORT

MIDDLE EAST

Middle East

Dubai Knowledge Village

Office F5, Block 12

Dubai , United Arab Emirates

The Dubai office is open

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CUSTOMER SUPPORT

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City & Guilds

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CUSTOMER SUPPORT

INDIA

Bangalore

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CUSTOMER SUPPORT

JAMAICA, TRINIDAD AND TOBAGO

We have two City & Guilds representatives for the Caribbean based in Trinidad and Jamaica.

Trinidad and Tobago

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Jamaica

Marva Duncanson

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