City & Guilds

ENGINEERING

START

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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.

FAQ's

BACK TO OVERVIEW

WHY CHOOSE CITY & GUILDS FOR ENGINEERING?

City & Guilds is a global leader in skills education and helps millions of learners every year find a job, and continue their studies or professional development. Our engineering courses are no different.

WORLD RENOWNED COURSES

We have been designing qualifications for over 130 years are proud that employers around the world see our offer as the benchmark for workplace excellence.

DEVELOPED WITH THE INDUSTRY

We work in collaboration with industry experts to make sure our graduates have the skills that employers are looking for. A popular feature of our qualifications is that they combine practical skills with relevant underpinning knowledge, making our candidates ready for employment.

PROGRESSION

City & Guilds qualifications are a suitable choice for engineers at different stages of their career. Not only do they help graduates progress directly into employment, but they also allow progression into higher level studies or professional registration.

PROFESSIONAL REGISTRATION

We have worked with the Institution of Engineering and Technology (IET), the Institution of Mechanical Engineers (IMechE) and the Institution of Civil Engineers (ICE) to align our higher level qualifications with the registration requirements for Incorporated Engineer (Level 6 Graduate Diplomas) and Chartered Engineer (Level 7 Postgraduate Diplomas) status. Find out more.

HIGHER EDUCATION PROGRESSION

We have also worked with a number of UK universities to enable progression into undergraduate engineering programmes with our qualifications. Graduates holding the level 4 Diplomas can progress into the second year of select three-year degree courses, while the level 5 graduates are able to go directly into the final (third) year.

EUROPASS

All of our engineering qualifications are supported by a Europass Certificate Supplement which provides an overview of the skills City & Guilds learners have achieved while completing the qualifications. They are particularly useful when preparing for job interviews or for those who would like to get a quick snapshot of the qualification.

Please visit our website for an up-to-date list of our employer and university recognitions and framework accreditations.

FAQ's

BACK TO OVERVIEW

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.

- **See our full list of courses**
- **FAQ's**

BACK TO OVERVIEW

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.

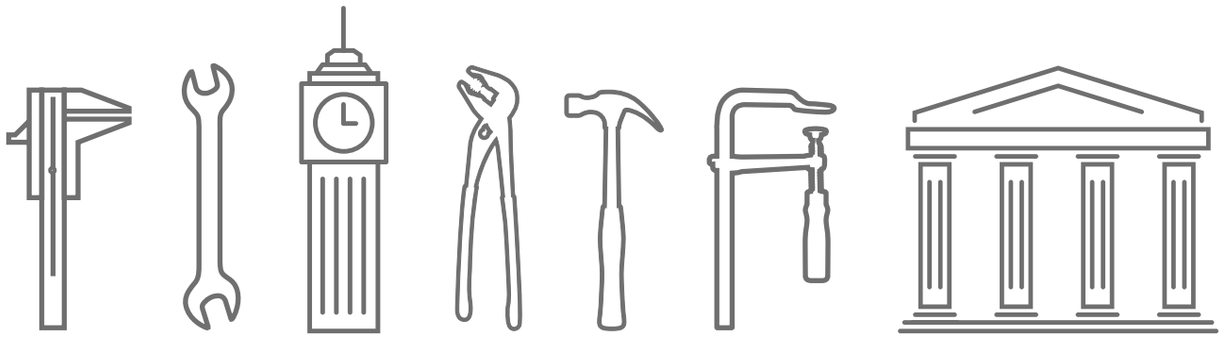
ENGAGING

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.

FAQ's



BACK TO OVERVIEW

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.

FAQ's

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

BACK TO OVERVIEW

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
– Assessment support
– Exemplar assignments
– Practice question papers
– Sample schemes of work
– Further reading/links
– Equipment lists
– Recognitions lists

Our Level 1 to 3 courses also come with the following SmartScreen materials:

– Sample session plans
– Individual learning plans
– Handouts
– Worksheets
– Activities
– Glossary
– Career sheets
– PowerPoint presentations

SMARTSCREEN

EVENTS

FAQ's

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FAQ's

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.

View our SmartScreen site
City & Guilds SmartScreen

SMARTSCREEN

EVENTS

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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.

FAQ's

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.

SMARTSCREEN

EVENTS

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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.

FAQ’s

BACK TO OVERVIEW

WHAT SHOULD YOU DO NEXT?

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

- **Our course approval process**

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

- **Europe**
- **Africa**
- **Asia Pacific**
- **Middle East**
- **South Asia**
- **India**
- **Jamaica, Trinidad and Tobago**

.....

- **FAQ's**

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.

- **Find your local office**
- **Download an application form**
- **FAQ's**

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APPENDIX

CITY & GUILDS COURSES

	MECHANICAL ENGINEERING	ELECTRICAL AND ELECTRONIC ENGINEERING	CIVIL ENGINEERING	TELECOMMUNICATION ENGINEERING
LEVEL 2	**2850-51/81** Diploma / Certificate in Manufacturing Technology	**2850-54/84** Diploma / Certificate in Electrical and Electronics Technology		**2730-12** Certificate in Telecommunication Systems
	2850-52/82 Diploma / Certificate in Maintenance Technology			
	2850-53/83 Diploma / Certificate in Fabrication and Welding Technology			
LEVEL 1	**2850-80** Certificate in Engineering			
ENTRY LEVEL	**3529-09** Skills Proficiency Certificate in Metal Machining	**3529-12** Skills Proficiency Certificate in Electronic Engineering		
	3529-10 Skills Proficiency Certificate in Plant Maintenance	**3529-08** Skills Proficiency Certificate in Basic Engineering		
	3529-11 Skills Proficiency Certificate in Fabrication, Welding and Pipework			
	3528-08 Foundation Certificate in Basic Engineering Skills			
	3528-12 Foundation Certificate in Basic Electronic Engineering			

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View Levels 3-7

CITY & GUILDS COURSES

	MECHANICAL ENGINEERING	ELECTRICAL AND ELECTRONIC ENGINEERING	CIVIL ENGINEERING	TELECOMMUNICATION ENGINEERING
LEVEL 7	**9210-02** Post Graduate Diploma in Mechanical Engineering	**9210-02** Post Graduate Diploma in Electrical Engineering	**9210-02** Post Graduate Diploma in Civil Engineering	**9210-02** Post Graduate Diploma in Electronic and Telecommunication Engineering
LEVEL 6	**9210-01** Graduate Diploma in Mechanical Engineering	**9210-01** Graduate Diploma in Electrical Engineering	**9210-01** Graduate Diploma in Civil Engineering	**9210-01** Graduate Diploma in Electronic and Telecommunication Engineering
LEVEL 5	**9209-11** Advanced Technician Diploma in Mechanical Engineering	**9209-12** Advanced Technician Diploma Electrical and Electronic Engineering	**9209-13** Advanced Technician Diploma in Civil Engineering	**2730-03** Advanced Technician Diploma in Telecommunication Systems
LEVEL 4	**9209-01** Diploma in Mechanical Engineering	**9209-02** Diploma in Electrical and Electronic Engineering	**9209-03** Diploma in Civil Engineering	
LEVEL 3	**2850-85** Diploma in Welding	**2850-90** Diploma in Electrical and Electronic Engineering		**2730-13** Diploma in Telecommunication Systems
	2850-86 Diploma in Fabrication			
	2850-87 Diploma in Fabrication and Welding			
	2850-88 Diploma in Maintenance, Installation and Commissioning			
	2850-89 Diploma in Mechanical Manufacturing Engineering			

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View Levels Entry-2

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

Who is this course for?

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.

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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

Who is this course for?

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.

Back to unit overview

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.

› Who is this course for?

› Support materials

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.

Support materials

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SUPPORT MATERIALS

2850: LEVEL 1 CERTIFICATE IN ENGINEERING	SMARTSCREEN								
	Sample scheme of work	Sample lesson plan	Worksheets	Activities	Handouts	Powerpoint presentations	Practice Questions	Recommended resources/ Reading list	Glossary of terms
MANDATORY UNITS									
Unit 101: Working in engineering	●	●	●	●	●	●	●	●	●
OPTIONAL UNITS									
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 111: Carrying out TIG welding processes								●	●
Unit 112: Carrying out OXY-Acetylene welding processes	●	●	●	●	●		●	●	●
Unit 113: Carrying out surface finishing techniques								●	●
Unit 114: Carrying out mechanical maintenance			●				●	●	●
Unit 115: Communicating using CAD systems								●	●
Unit 116: Producing engineering drawings			●				●	●	●

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

Pathway Mandatory Unit

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:

- Two online multiple-choice assessments covering the mandatory units
- One short-answer question paper for each pathway 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 Welding (2850-85)
- Level 3 Diploma in Fabrication (2850-86)
- Level 3 Diploma in Engineering - Fabrication and Welding (2850-87)

PROGRESS IN LEARNING

- Level 3 Diploma in Engineering - Maintenance, Installation and Commissioning (2850-88)
- Level 3 Diploma in 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.

› Who is this course for?

› Support materials

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.

Support materials

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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

Pathway Mandatory Unit

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:

- Two online multiple-choice assessments covering the mandatory units
- One short-answer question paper for each pathway mandatory unit
- One assignment for each chosen optional unit

PROGRESS IN LEARNING

- 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 Mechanical Manufacturing Engineering (2850-89)
- Level 3 Diploma in Engineering - Electrical and Electronic Engineering (2850-90)
- ILM, the Institute of Leadership and Management

UNIT ROUTES 2850-94

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

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

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

Who is this course for?

Support materials

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.

Support materials

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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

Pathway Mandatory Unit

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:

- Two online multiple-choice assessments covering the mandatory units
- One short-answer question paper for each pathway 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 Welding (2850-85)
- Level 3 Diploma in 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 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.

› Who is this course for?

› Support materials

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.

Support materials

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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

Pathway Mandatory Unit

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:

- Two online multiple-choice assessments covering the mandatory units
- One short-answer question paper for each pathway 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 Welding (2850-85)
- Level 3 Diploma in Fabrication (2850-86)

PROGRESS IN LEARNING

- 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

PROGRESS TO A JOB

- Machine Operative
- Maintenance Technician

UNIT ROUTES 2850-94

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

› Who is this course for?

› Support materials

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.

Support materials

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SUPPORT MATERIALS

2850: LEVEL 2 CERTIFICATE/DIPLOMA IN ENGINEERING	SMARTSCREEN								
	Sample scheme of work	Sample lesson plan	Worksheets	Activities	Handouts	Powerpoint presentations	Practice Questions	Recommended resources/ Reading list	Glossary of terms
MANDATORY UNITS									
Unit 201: Working in engineering	●	●	●	●	●	●	●	●	●
Unit 202: Principles of engineering technology	●	●	●	●	●	●	●	●	●
PATHWAY MANDATORY UNITS									
Unit 253: Principles of manufacturing technology	●	●	●		●	●	●	●	●
Unit 254: Principles of maintenance technology	●	●	●		●	●	●	●	●
Unit 255: Principles of fabrication and welding technology	●	●	●		●	●		●	●
Unit 256: Principles of electrical and electronics technology	●	●	●	●	●	●	●	●	●
OPTIONAL UNITS									
Unit 204: Machine components using milling techniques	●	●	●		●	●	●	●	●
Unit 205: Machine components using turning techniques	●	●	●		●	●	●	●	●
Unit 206: Using bench fitting techniques	●	●	●		●	●	●	●	●
Unit 207: Using Computer Aided Manufacturing processes								●	●
Unit 209: Assembling and maintaining fluid power systems							●	●	●
Unit 210: Maintenance of mechanical devices and equipment			●					●	●
Unit 211: Maintaining electrical wiring support systems	●	●	●	●	●	●	●	●	●
Unit 213: Welding by Manual Metal Arc process	●	●	●	●	●	●		●	●
Unit 214: Welding by MIG process	●	●	●	●	●	●	●	●	●
Unit 215: Welding by TIG process	●	●	●		●	●	●	●	●
Unit 216: Welding by Oxy-Acetylene process								●	●

SUPPORT MATERIALS

2850: LEVEL 2 CERTIFICATE/DIPLOMA IN ENGINEERING	SMARTSCREEN								
	Sample scheme of work	Sample lesson plan	Worksheets	Activities	Handouts	Powerpoint presentations	Practice Questions	Recommended resources/ Reading list	Glossary of terms
OPTIONAL UNITS CONT'D									
Unit 217: Fabricating sheet metalwork								●	●
Unit 218: Fabricating thick plate, bar and sections								●	●
Unit 219: Fabricating pipework assemblies								●	●
Unit 220: Fabricating steel work assemblies								●	●
Unit 222: Maintaining electrical equipment and systems	●	●	●	●	●	●	●	●	●
Unit 223: Wiring and testing electrical circuits	●	●		●	●	●	●	●	●
Unit 224: Constructing, testing and fault finding electronic circuits	●	●	●	●	●	●		●	●

LEVEL 2: CERTIFICATE 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

208 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.

› Who is this course for?

› Support Materials

LEVEL 2: CERTIFICATE 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.

Support Materials

Back to unit overview

SUPPORT MATERIALS

2730: LEVEL 2 CERTIFICATE IN TELECOMMUNICATION SYSTEMS	SMARTSCREEN									
	Sample scheme of work	Sample lesson plan	Worksheets	Activities	Handouts	Powerpoint presentations	Practice Questions	Individual learning plans	Recommended resources / reading list	Glossary of terms
Unit 203/206/253: Fundamentals of electronic communication 1	●	●	●		●	●	●	●	●	●
Unit 204/207/254: Communication Systems and Digital Networks 1	●	●	●	●	●	●	●	●	●	●
Unit 205: Mathematics	●	●	●	●	●	●	●		●	●

LEVEL 3: DIPLOMA IN WELDING (2850-85)

UNITS

Learners must take three optional units.

Mandatory Units

301 Engineering health and safety

302 Engineering principles

Pathway Mandatory Unit

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:

- Two online multiple-choice assessments covering the mandatory units
- One short-answer question paper for each pathway mandatory unit
- One assignment for each chosen
- One short-answer question paper if choosing the 'Advanced mathematics and science' unit
- 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 (9209-01)
- Level 4 Diploma in Electrical and Electronic Engineering (9209-02)
- Level 4 Diploma in Civil Engineering (9209-03)
- 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:

- 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.

Who is this course for?

Support materials

LEVEL 3: DIPLOMA IN 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.

Support materials

Back to unit overview

LEVEL 3: DIPLOMA IN FABRICATION (2850-86)

UNITS

Learners must take three optional units.

Mandatory Units

301 Engineering health and safety

302 Engineering principles

Pathway Mandatory Unit

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:

- Two online multiple-choice assessments covering the mandatory units
- One short-answer question paper for each pathway mandatory unit
- One assignment for each chosen
- 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 (9209-01)

PROGRESS IN LEARNING

- Level 4 Diploma in Electrical and Electronic Engineering (9209-02)
- Level 4 Diploma in Civil Engineering (9209-03)
- 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:

- 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.

Who is this course for?

Support materials

LEVEL 3: DIPLOMA IN 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.

Support materials

Back to unit overview

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

Pathway Mandatory Unit

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:

- Two online multiple-choice assessments covering the mandatory units
- One short-answer question paper for each pathwaymandatory unit
- One assignment for each chosen
- 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 (9209-01)
- Level 4 Diploma in Electrical and Electronic Engineering (9209-02)
- Level 4 Diploma in Civil Engineering (9209-03)
- 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:

- Foreman

PROGRESS TO A JOB

- Engineer Technician
- Operational Executive

UNIT ROUTES 2850-95

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

› Who is this course for?

› Support materials

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.

Support materials

Back to unit overview

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

Pathway Mandatory Unit

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

330 Organising and managing engineering operations

UNITS (CONT'D)

332 Mechatronics systems principles and fault finding

351 Advanced mathematics and science

ASSESSMENTS

Learners are required to successfully complete the following:

- Two online multiple-choice assessments covering the mandatory units
- One short-answer question paper for each pathway mandatory unit
- One assignment for each chosen
- 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 (9209-01)
- Level 4 Diploma in Electrical and Electronic Engineering (9209-02)
- Level 4 Diploma in Civil Engineering (9209-03)
- 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:

- Foreman

PROGRESS TO A JOB

- Engineer Technician
- Operational Executive

UNIT ROUTES 2850-95

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

› Who is this course for?

› Support materials

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.

Support materials

Back to unit overview

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

UNITS

Learners must take three optional units.

Mandatory Units

301 Engineering health and safety

302 Engineering principles

Pathway Mandatory Unit

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:

- Two online multiple-choice assessments covering the mandatory units
- One short-answer question paper for each pathway mandatory unit
- One assignment for each chosen
- 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 (9209-01)

PROGRESS IN LEARNING

- Level 4 Diploma in Electrical and Electronic Engineering (9209-02)
- Level 4 Diploma in Civil Engineering (9209-03)
- 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:

- 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.

Who is this course for?

Support materials

LEVEL 3: DIPLOMA IN MECHANICAL MANUFACTURING 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.

Support materials

Back to unit overview

LEVEL 3: DIPLOMA IN ELECTRICAL AND ELECTRONIC ENGINEERING (2850-90)

UNITS

Learners must take three optional units.

Mandatory Units

301 Engineering health and safety

302 Engineering principles

Pathway Mandatory Unit

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:

- Two online multiple-choice assessments covering the mandatory units
- One short-answer question paper for each pathway mandatory unit
- One assignment for each chosen
- 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 (9209-01)

PROGRESS IN LEARNING

- Level 4 Diploma in Electrical and Electronic Engineering (9209-02)
- Level 4 Diploma in Civil Engineering (9209-03)
- 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:

- 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.

› Who is this course for?

› Support materials

LEVEL 3: DIPLOMA IN ELECTRICAL AND ELECTRONIC ENGINEERING (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.

Support materials

Back to unit overview

SUPPORT MATERIALS

2850: LEVEL 3 DIPLOMA IN ENGINEERING	SMARTSCREEN									
	Sample scheme of work	Sample lesson plan	Worksheets	Activities	Handouts	Powerpoint presentations	Practice Questions	Individual learning plans	Recommended resources / reading list	Glossary of terms
MANDATORY UNITS										
Unit 301: Engineering health and safety	●	●	●	●	●	●	●	●	●	●
Unit 302: Engineering principles	●	●	●	●	●	●		●		●
PATHWAY MANDATORY UNITS										
Unit 353: Principles of welding	●	●	●		●	●	●	●	●	●
Unit 354: Principles of fabrication	●	●	●		●	●	●	●	●	●
Unit 355: Principles of fabrication and welding	●	●	●		●	●	●	●	●	●
Unit 356: Principles of engineering maintenance, installation and commissioning	●	●	●	●	●	●	●	●	●	●
Unit 357: Principles of mechanical manufacturing engineering	●	●	●		●	●	●	●	●	●
Unit 358: Principles of electrical and electronic engineering	●	●	●		●	●	●	●	●	●
OPTIONAL UNITS										
Unit 310: Manual metal arc welding of materials									●	●
Unit 311: MIG welding of materials	●	●	●	●	●	●	●	●	●	●
Unit 312: TIG welding of materials	●	●	●	●	●	●	●	●	●	●
Unit 313: Platework fabrication of materials									●	●
Unit 314: Sheet metalwork fabrication of materials									●	●
Unit 315: Fabrication and erection of structural steelwork									●	●
Unit 316: Pattern development for fabrication									●	●
Unit 317: Maintenance of machine systems									●	●

SUPPORT MATERIALS

2850: LEVEL 3 DIPLOMA IN ENGINEERING	SMARTSCREEN									
	Sample scheme of work	Sample lesson plan	Worksheets	Activities	Handouts	Powerpoint presentations	Practice Questions	Individual learning plans	Recommended resources / reading list	Glossary of terms
OPTIONAL UNITS CONT'D										
Unit 318: Maintenance of utility systems									●	●
Unit 319: Maintenance of plant services									●	●
Unit 320: Maintenance of hydraulic systems			●						●	●
Unit 321: Maintenance of pneumatic systems			●						●	●
Unit 322: Power generation systems and ancillary equipment									●	●
Unit 323: Machining materials by turning									●	●
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 328: Maintenance of electrical equipment and systems			●						●	●
Unit 329: Produce drawings using CAD			●						●	●
Unit 330: Organising and managing engineering operations	●	●	●	●	●	●	●	●	●	●
Unit 332: Mechatronics systems principles and fault finding									●	●
Unit 333: Computer automated and robotic systems principles and control									●	●
Unit 334: Power supply, and analogue and digital circuit principles and fault finding	●	●	●	●	●	●	●	●	●	●
Unit 335: Electronic power control principles and practice	●	●	●	●	●	●	●	●	●	●

SUPPORT MATERIALS

2850: LEVEL 3 DIPLOMA IN ENGINEERING	SMARTSCREEN									
	Sample scheme of work	Sample lesson plan	Worksheets	Activities	Handouts	Powerpoint presentations	Practice Questions	Individual learning plans	Recommended resources / reading list	Glossary of terms
OPTIONAL UNITS CONT'D										
Unit 336: MIG welding of aluminium									●	●
Unit 337: TIG welding of aluminium									●	●
Unit 338: Flux-cored arc welding of materials									●	●
Unit 351: Advanced mathematics and science	●	●	●		●	●	●	●	●	●

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 (9209-01)
- Level 4 Diploma in Electrical and Electronic Engineering (9209-02)
- Level 4 Diploma in Civil Engineering (9209-03)
- 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
- Systems Executive

UNIT ROUTES 2730-93

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

› Who is this course for?

› Support materials

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.

Support materials

Back to unit overview

SUPPORT MATERIALS

	SMARTSCREEN									
2730: LEVEL 3 DIPLOMA IN TELECOMMUNICATION	Sample scheme of work	Sample lesson plan	Worksheets	Activities	Handouts	Powerpoint presentations	Practice Questions	Individual learning plans	Recommended resources / reading list	Glossary of terms
Unit 301: Fundamentals of electronic communication 2	●	●	●		●	●	●	●	●	●
Unit 302/352: Communication systems and digital networks 2	●	●	●		●	●	●	●	●	●
Unit 303/354: Fundamentals of electronic communication 3	●	●	●		●		●	●	●	●
Unit 304: Communication systems and digital networks 3	●	●	●		●	●	●	●	●	●
Unit 305: Radio Systems	●	●	●		●		●	●	●	●
Unit 306: Programming principles	●	●	●	●	●		●	●	●	●
Unit 307: Advanced mathematics									●	●
Unit 356: Programming principles – Practical	●	●	●		●	●	●	●	●	●

LEVEL 4: DIPLOMA IN MECHANICAL ENGINEERING (9209-01)

UNITS

Learners must take seven optional units.

Mandatory Units

401 Engineering mathematics

428 Electrical principles for mechanical engineering

429 Principles of mechanical engineering

430 Engineering fluid mechanics and thermodynamics

Optional Units

403 Quality assurance and control

404 Human factors in the workplace

405 Engineering planning and scheduling

406 Statistical analysis for engineers

407 Computer Aided Design for Manufacture

UNITS CONT'D

418 Maintenance of engineering systems and equipment

419 Engineering design

421 Planning and implementing change within businesses

422 Personal and professional development

423 Managing information and knowledge

424 Engineering procurement

425 Principles of composite materials

426 Principles of composites manufacture

427 Developing business improvement plans

431 Principles of mechanical component manufacture

432 Materials engineering

UNITS CONT'D

433 Automated machining of materials

434 Industrial robotics

435 Statistical process control

436 Metal fabrication technology

437 Welding technology and practice

438 Quality assurance and testing of welded joints

MORE INFORMATION

Who is this course for?

Support materials

LEVEL 4: DIPLOMA IN MECHANICAL ENGINEERING (9209-01)

ASSESSMENTS

Each unit will be individually assessed by one of the following assessment methods:

- Dated entry written exams
- Practical assignments

The full list of unit assessments can be found in the Qualification Handbook.

PROGRESS IN LEARNING

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

- Level 5 Advanced Technician Diploma in Mechanical Engineering (9209-11)
- ILM, the Institute of Leadership and Management

Please refer to the website for information on progression into university.

PROGRESS TO A JOB

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

- Senior Technician
- Management

UNIT ROUTES 9209-91

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

Who is this course for?

Support materials

LEVEL 4: DIPLOMA IN MECHANICAL ENGINEERING (9209-01)

WHO IS THIS COURSE FOR?

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

This course focuses on advanced mechanical engineering, with a wide choice of units to provide a flexible route to career success as a professional engineer. The Level 4 Diplomas in Engineering are set at, and are an alternative to, the standard of the first year of a British BEng degree course, giving learners the potential to fulfil the role of senior technician with a high level of responsibility requiring the use of personal initiative and critical judgement.

Support materials

Back to unit overview

SUPPORT MATERIALS

9209: LEVEL 4 IN MECHANICAL ENGINEERING	WEBSITE		SMARTSCREEN							
	Sample scheme of work	Recommended resources / reading list	Sample scheme of work	Sample lesson plan	Worksheets	Activities	Handouts	Powerpoint presentations	Practice questions	Individual learning plans
MANDATORY UNITS										
Unit 401: Engineering mathematics	●	●	●	●	●		●			●
Unit 428: Electrical principles for mechanical engineering	●	●	●							
Unit 429: Principles of mechanical engineering	●	●	●							
Unit 430: Engineering fluid mechanics and thermodynamics	●	●	●							
OPTIONAL UNITS										
Unit 403: Quality assurance and control			●	●	●	●	●	●		●
Unit 404: Human factors in the workplace			●	●		●	●	●		●
Unit 405: Engineering planning and scheduling			●		●		●	●		●
Unit 406: Statistical analysis for engineers			●	●	●		●			●
Unit 407: Computer Aided Design for Manufacture										
Unit 418: Maintenance of engineering systems and equipment										
Unit 419: Engineering design										
Unit 421: Planning and implementing change within businesses										
Unit 422: Personal and professional development										
Unit 423: Managing information and knowledge										
Unit 424: Engineering procurement										
Unit 425: Principles of composite materials										

SUPPORT MATERIALS

	WEBSITE		SMARTSCREEN							
9209: LEVEL 4 IN MECHANICAL ENGINEERING	Sample scheme of work	Recommended resources / reading list	Sample scheme of work	Sample lesson plan	Worksheets	Activities	Handouts	Powerpoint presentations	Practice questions	Individual learning plans
OPTIONAL UNITS CONT'D										
Unit 426: Principles of composites manufacture										
Unit 427: Developing business improvement plans										
Unit 431: Principles of mechanical component manufacture			●	●			●	●		●
Unit 432: Materials engineering										
Unit 433: Automated machining of materials										
Unit 434: Industrial robotics										
Unit 435: Statistical process control										
Unit 436: Metal fabrication technology			●	●	●		●	●		●
Unit 437: Welding technology and practice			●	●	●		●	●		●
Unit 438: Quality assurance and testing of welded joints			●	●	●		●	●		●

LEVEL 4: DIPLOMA IN ELECTRICAL AND ELECTRONIC ENGINEERING (9209-02)

UNITS

Learners must take nine optional units.

Mandatory Units

401 Engineering mathematics

402 Principles of electrical/ electronic engineering

Optional Units

403 Quality assurance and control

404 Human factors in the workplace

405 Engineering planning and scheduling

406 Statistical analysis for engineers

407 Computer Aided Design for Manufacture

408 Data communication and networks

409 Principles and operation of electrical machines

UNITS CONT'D

410 Using electrical protection techniques for engineering operations

411 Electrical services and installation

412 Electrical supply and distribution

413 Testing and measurement of electronic and electrical systems

414 Programmable logic controllers

415 Principles of analogue circuits

416 Sequential and combinational logic circuits

417 Microprocessor based systems

418 Maintenance of engineering systems and equipment

419 Engineering design

420 Programming using C

UNITS CONT'D

421 Planning and implementing change within businesses

422 Personal and professional development

423 Managing information and knowledge

424 Engineering procurement

425 Principles of composite materials

426 Principles of composites manufacture

427 Developing business improvement plans

MORE INFORMATION

Who is this course for?

Support materials

LEVEL 4: DIPLOMA IN ELECTRICAL AND ELECTRONIC ENGINEERING (9209-02)

ASSESSMENTS

Each unit will be individually assessed by one of the following assessment methods:

- Dated entry written exams
- Practical assignments

The full list of unit assessments can be found in the Qualification Handbook.

PROGRESS IN LEARNING

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

- Level 5 Advanced Technician Diploma in Mechanical Engineering (9209-12)
- ILM, the Institute of Leadership and Management

Please refer to the website for information on progression into university.

PROGRESS TO A JOB

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

- Senior Technician
- Management

UNIT ROUTES 9209-92

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

Who is this course for?

Support materials

LEVEL 4: DIPLOMA IN ELECTRICAL AND ELECTRONIC ENGINEERING (9209-02)

WHO IS THIS COURSE FOR?

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

This course focuses on advanced electrical and electronic engineering, with a wide choice of units to provide a flexible route to career success as a professional engineer. The Level 4 Diplomas in Engineering are set at, and are an alternative to, the standard of the first year of a British BEng degree course, giving learners the potential to fulfil the role of senior technician with a high level of responsibility requiring the use of personal initiative and critical judgement.

Support materials

Back to unit overview

SUPPORT MATERIALS

9209: LEVEL 4 IN ELECTRICAL AND ELECTRONIC ENGINEERING	WEBSITE		SMARTSCREEN							
	Sample scheme of work	Recommended resources / reading list	Sample scheme of work	Sample lesson plan	Worksheets	Activities	Handouts	Powerpoint presentations	Practice questions	Individual learning plans
MANDATORY UNITS										
Unit 401: Engineering mathematics	●	●	●	●	●		●			●
Unit 402: Principles of electrical/electronic engineering	●	●	●							
OPTIONAL UNITS										
Unit 403: Quality assurance and control			●	●	●	●	●	●		●
Unit 404: Human factors in the workplace			●	●		●	●	●		●
Unit 405: Engineering planning and scheduling			●		●		●	●		●
Unit 406: Statistical analysis for engineers			●	●	●		●			●
Unit 407: Computer Aided Design for Manufacture										
Unit 408: Data communication and networks										
Unit 409: Principles and operation of electrical machines										
Unit 410: Using electrical protection techniques for engineering operations										
Unit 411: Electrical services and installation										
Unit 412: Electrical supply and distribution										
Unit 413: Testing and measurement of electronic and electrical systems										
Unit 414: Programmable logic controllers										
Unit 415: Principles of analogue circuits										
Unit 416: Sequential and combinational logic circuits										
Unit 417: Microprocessor based systems										

SUPPORT MATERIALS

	WEBSITE		SMARTSCREEN							
9209: LEVEL 4 IN ELECTRICAL AND ELECTRONIC ENGINEERING	Sample scheme of work	Recommended resources / reading list	Sample scheme of work	Sample lesson plan	Worksheets	Activities	Handouts	Powerpoint presentations	Practice questions	Individual learning plans
OPTIONAL UNITS CONT'D										
Unit 418: Maintenance of engineering systems and equipment										
Unit 419: Engineering design										
Unit 420: Programming using C										
Unit 421: Planning and implementing change within businesses										
Unit 422: Personal and professional development										
Unit 423: Managing information and knowledge										
Unit 424: Engineering procurement										
Unit 425: Principles of composite materials										
Unit 426: Principles of composites manufacture										
Unit 427: Developing business improvement plans										

LEVEL 4: DIPLOMA IN CIVIL ENGINEERING (9209-03)

UNITS

Learners must take three optional units.

Mandatory Units

439 Applied mathematics for civil engineering

440 Site surveying

441 Structural mechanics

442 Geotechnics and soil mechanics

443 Materials for civil engineering

Optional Units

403 Hydraulics for civil engineering

445 Highway engineering

446 Communication, manual drafting and CAD for engineers

447 Civil engineering construction techniques

ASSESSMENTS

Each unit will be individually assessed by one of the following assessment methods:

- Dated entry written exams
- Practical assignments

The full list of unit assessments can be found in the Qualification Handbook.

PROGRESS IN LEARNING

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

- Level 5 Advanced Technician Diploma in Civil Engineering (9209-13)
- ILM, the Institute of Leadership and Management

Please refer to the website for information on progression into university.

PROGRESS TO A JOB

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

- Senior Technician
- Management

UNIT ROUTES 9209-93

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

› Who is this course for?

› Support materials

LEVEL 4: DIPLOMA IN CIVIL ENGINEERING (9209-03)

WHO IS THIS COURSE FOR?

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

This course focuses on advanced civil engineering, providing a flexible route to career success as a professional engineer. The Level 4 Diplomas in Engineering are set at, and are an alternative to, the standard of the first year of a British BEng degree course, giving learners the potential to fulfil the role of senior technician with a high level of responsibility requiring the use of personal initiative and critical judgement.

Support materials

Back to unit overview

SUPPORT MATERIALS

9209: LEVEL 4 IN CIVIL ENGINEERING	WEBSITE	
	Sample scheme of work	Recommended resources / reading list
MANDATORY UNIT		
Unit 439: Applied mathematics for civil engineering	●	●
Unit 440: Site surveying	●	●
Unit 441: Structural mechanics	●	●
Unit 442: Geotechnics and soil mechanics	●	●
Unit 443: Materials for civil engineering	●	●
OPTIONAL UNIT		
Unit 403: Hydraulics for civil engineering		
Unit 445: Highway engineering		
Unit 446: Communication, manual drafting and CAD for engineers		
Unit 447: Civil engineering construction techniques		

LEVEL 5: ADVANCED TECHNICIAN DIPLOMA IN MECHANICAL ENGINEERING (9209-11)

UNITS

Learners must take two optional units.

Mandatory Units

513 Advanced engineering mathematics

514 Analysis of the mechanics of fluids

515 Applied thermodynamics

516 Mechanics of solids

517 Properties of materials for engineering applications

518 Dynamics of machine systems

Optional Units

503 Work-based project

504 Project management

505 Instrumentation and control principles

519 Modelling engineering designs

ASSESSMENTS

Each unit will be individually assessed by one of the following assessment methods:

- Dated entry written exams
- Practical assignments

The full list of unit assessments can be found in the Qualification Handbook.

PROGRESS IN LEARNING

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

- Level 6 Diploma in Mechanical Engineering (9210-01)
- ILM, the Institute of Leadership and Management

Please refer to the website for information on progression into university.

PROGRESS TO A JOB

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

- Senior Technician
- Management

UNIT ROUTES 9209-94

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

Who is this course for?

Support materials

LEVEL 5: ADVANCED TECHNICIAN DIPLOMA IN MECHANICAL ENGINEERING (9209-11)

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 mechanical engineering. It is also appropriate for someone who wishes to receive specialised training at a high level.

This course focuses on advanced mechanical engineering, providing a flexible route to career success as a professional engineer. The Level 5 Diplomas in Engineering are set at, and are an alternative to, the standard of the second year of a British BEng degree course, giving learners the potential to fulfil the role of senior technician with a high level of responsibility requiring the use of personal initiative and critical judgement.

Support materials

Back to unit overview

SUPPORT MATERIALS

	WEBSITE		SMARTSCREEN					
9209: LEVEL 5 MECHANICAL ENGINEERING	Sample scheme of work	Recommended resources / reading list	Sample scheme of work	Sample lesson plan	Worksheets	Activities	Handouts	Powerpoint presentations
MANDATORY UNITS								
Unit 513: Advanced engineering mathematics	●	●						
Unit 514: Analysis of the mechanics of fluids	●	●						
Unit 515: Applied thermodynamics	●	●						
Unit 516: Mechanics of solids	●	●						
Unit 517: Properties of materials for engineering applications	●	●						
Unit 518: Dynamics of machine systems	●	●						
OPTIONAL UNITS								
Unit 503: Work-based project								
Unit 504: Project management			●	●	●	●	●	●
Unit 505: Instrumentation and control principles								
Unit 519: Modelling engineering designs								

LEVEL 5: ADVANCED TECHNICIAN DIPLOMA IN ELECTRICAL AND ELECTRONIC ENGINEERING (9209-12)

UNITS

Learners must take six optional units.

Mandatory Units

501 Advanced mathematics for electrical and electronic engineering

502 Electrical and electronic engineering principles

Optional Units

503 Work-based project

504 Project management

505 Instrumentation and control principles

506 Electronic communication systems

507 Digital design

UNITS CONT'D

508 Principles of signal processing

509 Principles and operation of electrical machines

510 Analogue design

511 Electronic materials science

512 Business management

ASSESSMENTS

Each unit will be individually assessed by one of the following assessment methods:

- Dated entry written exams
- Practical assignments

The full list of unit assessments can be found in the Course Handbook.

PROGRESS IN LEARNING

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

- Level 6 Graduate Diploma in Electrical Engineering (9210-01)
- Level 6 Graduate Diploma in Electronic and Telecommunication Engineering (9210-01)
- ILM, the Institute of Leadership and Management

Please refer to the website for information on progression into university.

PROGRESS TO A JOB

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

- Senior Technician
- Management

UNIT ROUTES 9209-95

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

› Who is this course for?

› Support materials

LEVEL 5: ADVANCED TECHNICIAN DIPLOMA IN ELECTRICAL AND ELECTRONIC ENGINEERING (9209-12)

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 electrical or electronic engineering. It is also appropriate for someone who wishes to receive specialised training at a high level.

This course focuses on advanced electrical and electronic engineering, providing a flexible route to career success as a professional engineer. The Level 5 Diplomas in Engineering are set at, and are an alternative to, the standard of the second year of a British BEng degree course, giving learners the potential to fulfil the role of senior technician with a high level of responsibility requiring the use of personal initiative and critical judgement.

Support materials

Back to unit overview

SUPPORT MATERIALS

	WEBSITE		SMARTSCREEN					
9209: LEVEL 5 IN ELECTRICAL AND ELECTRONIC ENGINEERING	Sample scheme of work	Recommended resources / reading list	Sample scheme of work	Sample lesson plan	Worksheets	Activities	Handouts	Powerpoint presentations
MANDATORY UNITS								
Unit 501: Advanced mathematics for electrical and electronic engineering	●	●						
Unit 502: Principles of Electrical and electronic engineering	●	●						
OPTIONAL UNITS								
Unit 503: Work-based project								
Unit 504: Project management			●	●	●	●	●	●
Unit 505: Instrumentation and control principles								
Unit 506: Electronic communication systems								
Unit 507: Digital design								
Unit 508: Principles of signal processing								
Unit 509: Principles and operation of electrical machines								
Unit 510: Analogue design								
Unit 511: Electronic materials science								
Unit 512: Business management								

LEVEL 5: ADVANCED TECHNICIAN DIPLOMA IN CIVIL ENGINEERING (9209-13)

UNITS

Learners must take four optional units.

Mandatory Units

520 Advanced mathematics for civil engineering

521 Design of structural elements

522 Integrated civil engineering design project

Optional Units

422 Personal and professional development

504 Project management

523 Advanced surveying technology

524 Environmental water engineering

525 Transport engineering

UNITS (CONT'D)

526 Measurement, costing and contracts for civil engineers

527 Pavement design

528 Concrete design

529 Sustainable development

ASSESSMENTS

Each unit will be individually assessed by one of the following assessment methods:

- Dated entry written exams
- Practical assignments

The full list of unit assessments can be found in the Qualification Handbook.

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 Civil Engineering (9210-01)
- ILM, the Institute of Leadership and Management

Please refer to the website for information on progression into university.

PROGRESS TO A JOB

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

- Senior Technician
- Management

UNIT ROUTES 9209-96

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

Who is this course for?

Support materials

LEVEL 5: ADVANCED TECHNICIAN DIPLOMA IN CIVIL ENGINEERING (9209-13)

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 civil engineering. It is also appropriate for someone who wishes to receive specialised training at a high level.

This course focuses on advanced civil engineering, providing a flexible route to career success as a professional engineer. The Level 5 Diplomas in Engineering are set at, and are an alternative to, the standard of the second year of a British BEng degree course, giving learners the potential to fulfil the role of senior technician with a high level of responsibility requiring the use of personal initiative and critical judgement.

Support materials

Back to unit overview

SUPPORT MATERIALS

9209: LEVEL 5 IN CIVIL ENGINEERING	WEBSITE		SMARTSCREEN					
	Sample scheme of work	Recommended resources / reading list	Sample scheme of work	Sample lesson plan	Worksheets	Activities	Handouts	Powerpoint presentations
MANDATORY UNITS								
Unit 520: Advanced mathematics for civil engineering	●	●						
Unit 521: Design of structural elements	●	●						
Unit 522: Integrated civil engineering design project	●	●						
OPTIONAL UNITS								
Unit 422: Personal and professional development								
Unit 504: Project management			●	●	●	●	●	●
Unit 523: Advanced surveying technology								
Unit 524: Environmental water engineering								
Unit 525: Transport engineering								
Unit 526: Measurement, costing and contracts for civil engineers								
Unit 527: Pavement design								
Unit 528: Concrete design								
Unit 529: Sustainable development								

LEVEL 5: ADVANCED TECHNICIAN 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 (9210-01)
- 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

Who is this course for?

LEVEL 5: ADVANCED TECHNICIAN 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.

Back to unit overview

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 (9210-02)
- 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 Engineer
- Senior Management

These courses may also help learners to progress towards:

- Becoming an incorporated engineer

Who is this course for?

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.

Back to unit overview

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 (9210-02)
- 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 Engineer
- Senior Management

These courses may also help learners to progress towards:

- Becoming an incorporated engineer

Who is this course for?

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.

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.

Back to unit overview

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 (9210-02)
- 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 Engineer
- Senior Management

These courses may also help learners to progress towards:

- Becoming an incorporated engineer

Who is this course for?

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.

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.

Back to unit overview

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 (9210-02)
- 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 Engineer
- Senior Management

These courses may also help learners to progress towards:

- Becoming an incorporated engineer

Who is this course for?

LEVEL 6: GRADUATE DIPLOMA IN ELECTRONIC AND TELECOMMUNICATION 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.

Back to unit overview

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 in a wide range of roles including:

- Senior Engineer
- Senior Management

These courses may also help learners to progress towards:

- Becoming an chartered engineer

› Who is this course for?

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.

Back to unit overview

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 in a wide range of roles including:

- Senior Engineer
- Senior Management

These courses may also help learners to progress towards:

- Becoming an chartered engineer

Who is this course for?

LEVEL 7: POST GRADUATE DIPLOMA IN ELECTRICAL 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.

Back to unit overview

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

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 in a wide range of roles including:

- Senior Engineer
- Senior Management

These courses may also help learners to progress towards:

- Becoming an chartered engineer

› Who is this course for?

LEVEL 7: POST GRADUATE DIPLOMA IN ELECTRONIC AND TELECOMMUNICATION 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.

Back to unit overview

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 in a wide range of roles including:

- Senior Engineer
- Senior Management

These courses may also help learners to progress towards:

- Becoming an chartered engineer

› Who is this course for?

LEVEL 7: POST GRADUATE DIPLOMA IN MECHANICAL 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.

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FREQUENTLY ASKED QUESTIONS

COMPARISON AGAINST EXISTING QUALIFICATIONS

What is the difference between the existing and the new engineering qualifications?	The existing qualifications just introduces learners to a broad overview of engineering, whereas the new engineering qualifications focus on job-specific skills and allow for clear progression, giving learners a greater chance to succeed in a career within engineering. The new qualifications also provide a lot more support and guidance around the practical assessments, replacing the existing "checklist" methodology with structured assignments, recording and marking forms, and City & Guilds set exams. Please refer to the Qualification Handbooks for further details of course structures. Further information can also be found on Sales Caddy, including: ■ January 2014 webinar - **2850** (.ppt) ■ Engineering replacement qualifications (.xls) ■ 2850 Mapping document July 2013 (.xls)
Can learners progress from **Level 3** to **5** as before?	It is a requirement for learners to take the new **Level 4** qualifications if they are to progress to **Level 5.** City & Guilds has developed the new suite of **Level 4** qualifications in engineering to address the gap in the existing provision. As the **Level 4** and **5** qualifications have been designed together, it would be a disadvantage to the learner if they were to take the **Level 5** without first having taken then **Level 4**.
Why are there no theory-only qualifications in the new offer?	The new City & Guilds qualifications focus on the practical skills needed to work within the engineering sector. To achieve the full certificate, learners will therefore be assessed on both knowledge and practical skills. For those only requiring recognition of theory, then City & Guilds recommend the unit routes available for all qualifications at **Level 1** to **5**. This route allows learners to take individual units and receive certification for each unit achieved. A list of the theory-only units is available on Sales Caddy.

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FREQUENTLY ASKED QUESTIONS

COMPARISON AGAINST EXISTING QUALIFICATIONS

Will poor internet connectivity prevent us from using **Evolve**?	Evolve tests can be conducted off-line. Centres will need to Advance Download the tests prior to the assessment, and then upload them again once the tests have been completed. Centres should refer to the technical requirements and familiarisation materials available on the City & Guilds website.
There are missing elements in the new qualification, eg more maths could be added	City & Guilds qualifications are developed in consultation with industry experts and employers. Each qualification has therefore been designed to reflect the skills and knowledge required for specific job roles at different levels. Additional content, for example additional maths, can be delivered by centres as part of their training course if required.
The new qualifications appear more expensive than the old qualifications?	The new engineering qualifications are up-to-date, more relevant to employers, and come with support materials for no extra charge. The price has therefore been set to reflect the improved offer available to centres.
Competitor qualifications have no exams, and are therefore easier to pass	City & Guilds qualifications are developed in consultation with industry experts and employers. Each qualification has therefore been designed to reflect the skills and knowledge required for specific job roles at different levels. The assessment methodology is also selected according to the skills and knowledge required to be assessed for each unit, with City & Guilds set exams providing the necessary environment and rigour to test the learners understanding and knowledge of underpinning theory. City & Guilds believes that this approach to assessment will make learners better prepared for working within the Engineering industry.

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FREQUENTLY ASKED QUESTIONS

EXITING THE OLD QUALIFICATION

Our centre is already set up to deliver the old qualifications, why can't we continue to run them?	The existing qualifications have been out in the market for a long time. It is therefore necessary for City & Guilds to replace them with up-to-date qualifications, which focus on job-specific engineering skills and clear progression opportunities. If centres are concerned in making the switch over to the new qualifications, then City & Guilds will be able to provide support.
I won't be able to get all of my learners through by the last exam	It is the centres responsibility to manage their learners according to the last exam date. Centres should be looking at delivering the new engineering qualifications as soon as possible. If learners are unlikely to be ready for the last exam date, and are unable to take the new qualifications, then they must inform their local representative/EV immediately with the number of learners that this is expected to impact.
Why do I need approval when I already deliver City & Guilds Engineering **IVQs**?	There are some differences between the new and the existing qualifications, for example, the new qualifications focus more on jon-specific skills. There is also a mandatory unit that requires the use of **Evolve**, our computer-based e-assessment platform. City & Guilds would therefore like to ensure that centres are set up, and supported, to deliver the new qualifications.
Will I need to pay for the new qualification approval?	This depends on the policy set by the regional office. In most cases centres will be paying for qualification approval. Centres should be made aware of the benefit of having an **EV's** support and guidance in setting up the new qualifications, and the improved offer to learners that the new qualifications will bring.

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FREQUENTLY ASKED QUESTIONS

COURSE PREPARATION / SUPPORT MATERIALS

Our courses are need to be longer than the recommended qualification length	Additional content can be delivered by centres as part of their training course if required. Centres may want to look at delivering additional units and/or additional qualifications to match the required length. Centres should contact the local City & Guilds representative or **EV** to help plan their training course.
Other qualifications have textbooks, why doesn't Engineering?	Due to the availability of other engineering textbooks in the market, City & Guilds do not yet see a need to produce one themselves. However, the new Engineering Portfolio is still well supported with SmartScreen materials, including a recommended reading list.
Why can't City & Guilds release past papers?	Particularly for skills based qualifications, there is often a limited number of questions that can be asked on a particular topic. Offering past papers may therefore make the exams predictable and of less value. Instead City & Guilds offer sample questions and sample question papers so that learners can test their knowledge as well as familiarise themselves with the structure of the exam.
Why does **Level 4** and **5** have a different qualification number to **level 1** to **3**?	Qualification numbers are grouped into suites to reflect similar qualification structures, purpose and assessment methodology. This helps to provide clarity and distinction between the different qualifications. The **2850** qualifications are aimed at introducing learners to the engineering sector, supporting them to progress to becoming engineering technicians. All qualifications have a similar structure and assessment methodology. The **9209** qualifications are aimed at the next stage of a learners career; management and higher level progression. The content and assessments of these qualifications are therefore different to that of **2850**. The **9210** is a natural progression from **9209**, supporting learners to progress their career further towards professional status and becoming a senior engineer. Due to the advanced nature of these qualifications, each unit is assessed for both practical and theory.

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FREQUENTLY ASKED QUESTIONS

COURSE PREPARATION / SUPPORT MATERIALS

Are free SmartScreen materials available?	SmartScreen materials, including Schemes of Work, Lesson plans, Activities, Handouts and Worksheets are available for **2850** and **2730** for no extra cost.
Are all units covered by support materials / SmartScreen?	No. City & Guilds provide support materials for all mandatory units, and selected optional units. City & Guilds provide support materials to help centres set up to deliver new qualifications. However, centres are ultimately responsible for designing and delivering their own training courses based on the City & Guilds qualification handbook.
Does **Level 4** and **5** have SmartScreen?	There are support materials available for the **Level 4** and **5** qualifications, but they are found on the website, not the SmartScreen platform. Please look at the **9209** website for Schemes of Work (with recommended reading and resources included), equipment lists, and sample papers. City & Guilds do not offer activities, handouts or worksheets s at **Level 4** and **5**, as there is an expectation that learners should be able to self-study at this level.

UK ACCREDITATION

Why does **Level 4** and **5** not have country of origin accreditation?	OFQUAL, the UK regulator, has strict requirements on qualifications delivered outside the UK. City & Guilds are currently working with a number of UK centres and employers in order to gain the necessary support for inclusion of our **Level 4** and **5** qualifications on the National Qualification Framework
Why are we looking to put **Level 4** and **5** on the **NQF**, whereas **2850** is on the **QCF**?	The UK currently have two regulatory frameworks, for reasons specific to the UK. The different frameworks were therefore selected as a requirement to get OFQUAL accreditation. For International, there is no difference between the frameworks, as qualifications on either framework can be classified as having country of origin accreditation.

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FREQUENTLY ASKED QUESTIONS

MISC

Why are there other **2850** pathways showing on Walled Garden / website?	International customers should refer to pathways **2850-80** to **-90** and **-51** to **-52**. The following pathways were designed for the UK and may not be appropriate for International markets: **2850-10 / 2850-20 / 2850-26 / 2850-30 / 2850-32 / 2850-33 / 2850-35 / 2850-36 / 2850-38**
What is the difference between the UK pathways and International pathways?	The only major difference between the UK and International pathways, is that International have introduced City & Guilds set exams and assignments, whereas the UK pathways require centres to conduct their own assessments.

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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.

Get in touch

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- South Asia
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