

City & Guilds 2850-10 Level 1 Certificate in Engineering at Chichester College



Course Handbook

This course contains 11 units as part of two qualifications.

City & Guilds Level 1 Certificate in Engineering, and EAL Level 1 NVQ Certificate in Performing Engineering Operations.

All units of both Qualifications will need to be completed to progress to a Level 2 Qualification in Engineering.

City & Guilds Level has three units:

101 - Working in Engineering

1. Know safe working practices.
2. Know the engineering environment.
3. Understand the importance of maintaining working relationships.
4. Know the sectors within engineering.
5. Know key engineering materials.
6. Know basic engineering information technology requirements.

106 - Carrying out electrical assembly.

1. Be able to prepare for building electrical circuits.
2. Be able to build electrical circuits.
3. Be able to check completed circuits.

115 - Communicating using CAD systems.

1. Be able to prepare for communication.
2. Be able to use CAD software for engineering purposes.
3. Be able to use communication software for engineering purposes.

Assessments

You will be assessed by an online exam (GOLA) for **unit 101**.
Practical assessments and written short answer question papers for the
other two units.

These are all graded at **Pass, Merit or Distinction**.

EAL Level 1 has eight units:

Unit QPE02/001 Working Safely in an Engineering Environment.

1. A series of Knowledge Questions (K Questions) to ascertain your knowledge of Health and Safety etc.

Unit QPE01/002N Carrying out Engineering Activities Efficiently and Effectively:

1. A series of K Questions to ascertain your knowledge of the progression between education and employment.

Unit QPE01/003N Using and Communicating Technical Information.

Unit QPE01/004N Making components using hand tools and fitting techniques.

1. Be able to prepare for fitting activities.
2. Be able to use simple fitting techniques to produce components.
3. Be able to check components for correct size.
4. State the need for good housekeeping in the workplace.
5. Use equipment safely.
6. Restore the work area using the correct procedures for the disposal of waste.

Unit QPE01/012N Carrying out sheet metal cutting, forming and assembly activities.

1. Use simple methods of fabrication assembly.
2. Assemble simple non self-secured joints.
3. Assemble simple self-secured joints.
4. Use mechanical joining methods.
5. Use the resistance spot welding process.
6. Produce sheet metalwork assembly.
7. State the need for good housekeeping in the workplace.
8. Use equipment safely.
9. Restore the work area using the correct procedures for the disposal of waste.

Unit QPE01/017N Using semi-automatic Mig welding equipment.

1. Know how to prepare MIG welding equipment and tools for safe use.
2. Know how to use equipment safely for MIG welding low carbon Steel.
3. Be able to produce welded joints safely using MIG welding.
4. State the need for good housekeeping in the workplace.
5. Use equipment safely.
6. Restore the work area using the correct procedures for the disposal of waste.

Unit QPE01/023N Carrying out Electronic Assembly.

1. Be able to prepare for building electrical circuits.
2. Be able to build electrical circuits.
3. Be able to check completed circuits.
4. State the need for good housekeeping in the workplace.
5. Use equipment safely.
6. Restore the work area using the correct procedures for the disposal of waste.

Unit QPE01/027N Carrying out Composite Moulding Activities.

1. Be able to prepare for composite moulding activities.
2. Be able to use a variety of methods to produce a composite product.
3. Be able to check components for correct size.
4. State the need for good housekeeping in the workplace.
5. Use equipment safely.
6. Restore the work area using the correct procedures for the disposal of waste.

Assessments

You will be assessed by completing three practical tasks for each practical unit, along with a series of K Questions to ascertain your knowledge of each practical subject. the need to extract data from a variety of sources.

As part of your study programme you will be required to carry out at least 15 hours of work experience at an industrial placement. This is to be organized by the student, but some leads are available. This will have to be authorised by the College for you to attend to ensure that safety and legal requirements have been met. This is done via filling out a form & handing it to the study programme leader, at least 2 weeks before the placement begins..

This will not only give the student an insight to the working world but could possibly lead to future employment opportunities.



Enrichment

During your time at college you will be given the opportunity to attend Industrial trips to local business that will give you some career guidance. As well as an end of year experience, currently Go-Karting.



Progression

On successful completion of all the units of the course you would be able to move on to:-

- City & Guilds 2850-24 Level 2 Diploma in Engineering (Manufacturing Technology).
- Level 3 BTEC Diploma or T Level L3 – Academic.
- An Apprenticeship
- Full time employment.

Course Supplement

There is a supplement added to the course –

Currently £245.00. This covers the cost of the equipment you will be given.

- Protective clothing.
- Safety boots.
- Welding mask and gloves.
- Rigger gloves.
- Work gloves
- Electronics tool kit.
- Safety Glasses.
- Bag to carry PPE



Example of Assessment Calendar

		Level 1 Diploma In Engineering				Course Code; MNT173CF1A				Units 102,108,110			
27-Aug-18	Bank Holiday	15-Oct-18	PREPARE FOR ALL UNITS	03-Dec-18	PREPARE FOR ALL UNITS	21-Jan-19	PREPARE FOR ALL UNITS	11-Mar-19	PREPARE FOR ALL UNITS	29-Apr-19	Hand Tools Assessment week	17-Jun-19	Catch up week
28-Aug-18	Admin Week	16-Oct-18	PREPARE FOR ALL UNITS	04-Dec-18	PREPARE FOR ALL UNITS	22-Jan-19	PREPARE FOR ALL UNITS	12-Mar-19	PREPARE FOR ALL UNITS	30-Apr-19	Hand Tools Assessment week	18-Jun-19	
29-Aug-18	Admin Week	17-Oct-18	PREPARE FOR ALL UNITS	05-Dec-18	PREPARE FOR ALL UNITS	23-Jan-19	PREPARE FOR ALL UNITS	13-Mar-19	PREPARE FOR ALL UNITS	01-May-19	Hand Tools Assessment week	19-Jun-19	Catch up week
30-Aug-18	Admin Week	18-Oct-18	PREPARE FOR ALL UNITS	06-Dec-18	PREPARE FOR ALL UNITS	24-Jan-19	PREPARE FOR ALL UNITS	14-Mar-19	PREPARE FOR ALL UNITS	02-May-19	Hand Tools Assessment week	20-Jun-19	
31-Aug-18	Admin Week	19-Oct-18	PREPARE FOR ALL UNITS	07-Dec-18	PREPARE FOR ALL UNITS	25-Jan-19	PREPARE FOR ALL UNITS	15-Mar-19	PREPARE FOR ALL UNITS	03-May-19	Hand Tools Assessment week	21-Jun-19	Catch up week
01-Sep-18		20-Oct-18	PREPARE FOR ALL UNITS	08-Dec-18	PREPARE FOR ALL UNITS	26-Jan-19	PREPARE FOR ALL UNITS	16-Mar-19	PREPARE FOR ALL UNITS	04-May-19	Hand Tools Assessment week	22-Jun-19	
02-Sep-18		21-Oct-18	PREPARE FOR ALL UNITS	09-Dec-18	PREPARE FOR ALL UNITS	27-Jan-19	PREPARE FOR ALL UNITS	17-Mar-19	PREPARE FOR ALL UNITS	05-May-19	Hand Tools Assessment week	23-Jun-19	Catch up week
03-Sep-18		22-Oct-18	PREPARE FOR ALL UNITS	10-Dec-18	PREPARE FOR ALL UNITS	28-Jan-19	PREPARE FOR ALL UNITS	18-Mar-19	PREPARE FOR ALL UNITS	06-May-19	Hand Tools Assessment week	24-Jun-19	
04-Sep-18	Induction Week	23-Oct-18	Half Term	11-Dec-18	PREPARE FOR ALL UNITS	29-Jan-19	Welding Assessment week	19-Mar-19	Welding Assessment week	07-May-19	Hand Tools Assessment week	25-Jun-19	Admin Week
05-Sep-18	Induction Week	24-Oct-18	Half Term	12-Dec-18	PREPARE FOR ALL UNITS	30-Jan-19	Welding Assessment week	20-Mar-19	Welding Assessment week	08-May-19	Hand Tools Assessment week	26-Jun-19	
06-Sep-18	Induction Week	25-Oct-18	Half Term	13-Dec-18	PREPARE FOR ALL UNITS	31-Jan-19	Welding Assessment week	21-Mar-19	Welding Assessment week	09-May-19	Hand Tools Assessment week	27-Jun-19	Admin Week
07-Sep-18	Induction Week	26-Oct-18	Half Term	14-Dec-18	PREPARE FOR ALL UNITS	01-Feb-19	Welding Assessment week	22-Mar-19	Welding Assessment week	10-May-19	Hand Tools Assessment week	28-Jun-19	
08-Sep-18		27-Oct-18	Half Term	15-Dec-18	PREPARE FOR ALL UNITS	02-Feb-19	Welding Assessment week	23-Mar-19	Welding Assessment week	11-May-19	Hand Tools Assessment week	29-Jun-19	Admin Week
09-Sep-18		28-Oct-18	Half Term	16-Dec-18	PREPARE FOR ALL UNITS	03-Feb-19	Welding Assessment week	24-Mar-19	Welding Assessment week	12-May-19	Hand Tools Assessment week	30-Jun-19	
10-Sep-18		29-Oct-18	Half Term	17-Dec-18	PREPARE FOR ALL UNITS	04-Feb-19	Welding Assessment week	25-Mar-19	Welding Assessment week	13-May-19	Hand Tools Assessment week	01-Jul-19	Admin Week
11-Sep-18	Welding/Hand Tools/Sheet Metal Thery	30-Oct-18	PREPARE FOR ALL UNITS	18-Dec-18	Christmas Break	05-Feb-19	PREPARE FOR ALL UNITS	26-Mar-19	PREPARE FOR ALL UNITS	14-May-19	Hand Tools Assessment week	02-Jul-19	
12-Sep-18	Welding/Hand Tools/Sheet Metal Thery	31-Oct-18	PREPARE FOR ALL UNITS	19-Dec-18	Christmas Break	06-Feb-19	PREPARE FOR ALL UNITS	27-Mar-19	PREPARE FOR ALL UNITS	15-May-19	Hand Tools Assessment week	03-Jul-19	Taster Week
13-Sep-18	Welding/Hand Tools/Sheet Metal Thery	01-Nov-18	PREPARE FOR ALL UNITS	20-Dec-18	Christmas Break	07-Feb-19	PREPARE FOR ALL UNITS	28-Mar-19	PREPARE FOR ALL UNITS	16-May-19	Hand Tools Assessment week	04-Jul-19	
14-Sep-18	Welding/Hand Tools/Sheet Metal Thery	02-Nov-18	PREPARE FOR ALL UNITS	21-Dec-18	Christmas Break	08-Feb-19	PREPARE FOR ALL UNITS	29-Mar-19	PREPARE FOR ALL UNITS	17-May-19	Hand Tools Assessment week	05-Jul-19	Taster Week
15-Sep-18	Welding/Hand Tools/Sheet Metal Thery	03-Nov-18	PREPARE FOR ALL UNITS	22-Dec-18	Christmas Break	09-Feb-19	PREPARE FOR ALL UNITS	30-Mar-19	PREPARE FOR ALL UNITS	18-May-19	Hand Tools Assessment week	06-Jul-19	
16-Sep-18	Welding/Hand Tools/Sheet Metal Thery	04-Nov-18	PREPARE FOR ALL UNITS	23-Dec-18	Christmas Break	10-Feb-19	PREPARE FOR ALL UNITS	31-Mar-19	PREPARE FOR ALL UNITS	19-May-19	Hand Tools Assessment week	07-Jul-19	Summer Break
17-Sep-18	Welding/Hand Tools/Sheet Metal UPK	05-Nov-18	PREPARE FOR ALL UNITS	24-Dec-18	Christmas Break	11-Feb-19	PREPARE FOR ALL UNITS	01-Apr-19	Sheet Metal Assessment week	20-May-19	GCSE Maths	08-Jul-19	
18-Sep-18	Welding/Hand Tools/Sheet Metal UPK	06-Nov-18	PREPARE FOR ALL UNITS	25-Dec-18	Christmas Break	12-Feb-19	PREPARE FOR ALL UNITS	02-Apr-19	Sheet Metal Assessment week	21-May-19	GCSE Maths	09-Jul-19	Summer Break
19-Sep-18	Welding/Hand Tools/Sheet Metal UPK	07-Nov-18	PREPARE FOR ALL UNITS	26-Dec-18	Christmas Break	13-Feb-19	PREPARE FOR ALL UNITS	03-Apr-19	Sheet Metal Assessment week	22-May-19	GCSE Maths	10-Jul-19	
20-Sep-18	Welding/Hand Tools/Sheet Metal UPK	08-Nov-18	PREPARE FOR ALL UNITS	27-Dec-18	Christmas Break	14-Feb-19	PREPARE FOR ALL UNITS	04-Apr-19	Sheet Metal Assessment week	23-May-19	GCSE Maths	11-Jul-19	Summer Break
21-Sep-18	Welding/Hand Tools/Sheet Metal UPK	09-Nov-18	PREPARE FOR ALL UNITS	28-Dec-18	Christmas Break	15-Feb-19	PREPARE FOR ALL UNITS	05-Apr-19	Sheet Metal Assessment week	24-May-19	GCSE Maths	12-Jul-19	
22-Sep-18		10-Nov-18	PREPARE FOR ALL UNITS	29-Dec-18	Christmas Break	16-Feb-19	PREPARE FOR ALL UNITS	06-Apr-19	Sheet Metal Assessment week	25-May-19	GCSE Maths	13-Jul-19	Summer Break
23-Sep-18		11-Nov-18	PREPARE FOR ALL UNITS	30-Dec-18	Christmas Break	17-Feb-19	PREPARE FOR ALL UNITS	07-Apr-19	Sheet Metal Assessment week	26-May-19	GCSE Maths	14-Jul-19	
24-Sep-18		12-Nov-18	PREPARE FOR ALL UNITS	31-Dec-18	Christmas Break	18-Feb-19	PREPARE FOR ALL UNITS	08-Apr-19	Sheet Metal Assessment week	27-May-19	GCSE Maths	15-Jul-19	Summer Break
25-Sep-18		13-Nov-18	PREPARE FOR ALL UNITS	01-Jan-19	Christmas Break	19-Feb-19	PREPARE FOR ALL UNITS	09-Apr-19	Sheet Metal Assessment week	28-May-19	GCSE Maths	16-Jul-19	
26-Sep-18		14-Nov-18	PREPARE FOR ALL UNITS	02-Jan-19	Christmas Break	20-Feb-19	PREPARE FOR ALL UNITS	10-Apr-19	Sheet Metal Assessment week	29-May-19	GCSE Maths	17-Jul-19	Summer Break
27-Sep-18		15-Nov-18	PREPARE FOR ALL UNITS	03-Jan-19	Christmas Break	21-Feb-19	PREPARE FOR ALL UNITS	11-Apr-19	Sheet Metal Assessment week	30-May-19	GCSE Maths	18-Jul-19	
28-Sep-18		16-Nov-18	PREPARE FOR ALL UNITS	04-Jan-19	Christmas Break	22-Feb-19	PREPARE FOR ALL UNITS	12-Apr-19	Sheet Metal Assessment week	31-May-19	GCSE Maths	19-Jul-19	Summer Break
29-Sep-18		17-Nov-18	PREPARE FOR ALL UNITS	05-Jan-19	Christmas Break	23-Feb-19	PREPARE FOR ALL UNITS	13-Apr-19	Sheet Metal Assessment week	01-Jun-19	GCSE Maths	20-Jul-19	
30-Sep-18		18-Nov-18	PREPARE FOR ALL UNITS	06-Jan-19	Christmas Break	24-Feb-19	PREPARE FOR ALL UNITS	14-Apr-19	Sheet Metal Assessment week	02-Jun-19	GCSE Maths	21-Jul-19	Summer Break
01-Oct-18	PREPARE FOR ALL UNITS	19-Nov-18	PREPARE FOR ALL UNITS	07-Jan-19	Christmas Break	25-Feb-19	PREPARE FOR ALL UNITS	15-Apr-19	Sheet Metal Assessment week	03-Jun-19	GCSE Maths	22-Jul-19	
02-Oct-18	Staff Development	20-Nov-18	Welding Assessment week	08-Jan-19	PREPARE FOR ALL UNITS	26-Feb-19	PREPARE FOR ALL UNITS	16-Apr-19	Sheet Metal Assessment week	04-Jun-19	GCSE English	23-Jul-19	Summer Break
03-Oct-18	FOR ALL UNITS	21-Nov-18	Welding Assessment week	09-Jan-19	PREPARE FOR ALL UNITS	27-Feb-19	PREPARE FOR ALL UNITS	17-Apr-19	Sheet Metal Assessment week	05-Jun-19	GCSE English	24-Jul-19	
04-Oct-18	FOR ALL UNITS	22-Nov-18	Welding Assessment week	10-Jan-19	PREPARE FOR ALL UNITS	28-Feb-19	PREPARE FOR ALL UNITS	18-Apr-19	Sheet Metal Assessment week	06-Jun-19	GCSE English	25-Jul-19	Summer Break
05-Oct-18	FOR ALL UNITS	23-Nov-18	Welding Assessment week	11-Jan-19	PREPARE FOR ALL UNITS	01-Mar-19	PREPARE FOR ALL UNITS	19-Apr-19	Sheet Metal Assessment week	07-Jun-19	GCSE English	26-Jul-19	
06-Oct-18		24-Nov-18	Welding Assessment week	12-Jan-19	PREPARE FOR ALL UNITS	02-Mar-19	PREPARE FOR ALL UNITS	20-Apr-19	Sheet Metal Assessment week	08-Jun-19	GCSE English	27-Jul-19	Summer Break
07-Oct-18		25-Nov-18	Welding Assessment week	13-Jan-19	PREPARE FOR ALL UNITS	03-Mar-19	PREPARE FOR ALL UNITS	21-Apr-19	Sheet Metal Assessment week	09-Jun-19	GCSE English	28-Jul-19	
08-Oct-18		26-Nov-18	Welding Assessment week	14-Jan-19	PREPARE FOR ALL UNITS	04-Mar-19	PREPARE FOR ALL UNITS	22-Apr-19	Sheet Metal Assessment week	10-Jun-19	GCSE English	29-Jul-19	Summer Break
09-Oct-18		27-Nov-18	Welding Assessment week	15-Jan-19	PREPARE FOR ALL UNITS	05-Mar-19	PREPARE FOR ALL UNITS	23-Apr-19	Sheet Metal Assessment week	11-Jun-19	GCSE English	30-Jul-19	
10-Oct-18	PREPARE FOR ALL UNITS	28-Nov-18	PREPARE FOR ALL UNITS	16-Jan-19	PREPARE FOR ALL UNITS	06-Mar-19	PREPARE FOR ALL UNITS	24-Apr-19	Sheet Metal Assessment week	12-Jun-19	GCSE English	31-Jul-19	Summer Break
11-Oct-18	PREPARE FOR ALL UNITS	29-Nov-18	PREPARE FOR ALL UNITS	17-Jan-19	PREPARE FOR ALL UNITS	07-Mar-19	PREPARE FOR ALL UNITS	25-Apr-19	Sheet Metal Assessment week	13-Jun-19	GCSE English	01-Aug-19	
12-Oct-18	PREPARE FOR ALL UNITS	30-Nov-18	PREPARE FOR ALL UNITS	18-Jan-19	PREPARE FOR ALL UNITS	08-Mar-19	PREPARE FOR ALL UNITS	26-Apr-19	Sheet Metal Assessment week	14-Jun-19	GCSE English	02-Aug-19	Summer Break
13-Oct-18	PREPARE FOR ALL UNITS	01-Dec-18	PREPARE FOR ALL UNITS	19-Jan-19	PREPARE FOR ALL UNITS	09-Mar-19	PREPARE FOR ALL UNITS	27-Apr-19	Sheet Metal Assessment week	15-Jun-19	GCSE English	03-Aug-19	
14-Oct-18	PREPARE FOR ALL UNITS	02-Dec-18	PREPARE FOR ALL UNITS	20-Jan-19	PREPARE FOR ALL UNITS	10-Mar-19	PREPARE FOR ALL UNITS	28-Apr-19	Sheet Metal Assessment week	16-Jun-19	GCSE English	04-Aug-19	Summer Break
												05-Aug-19	

