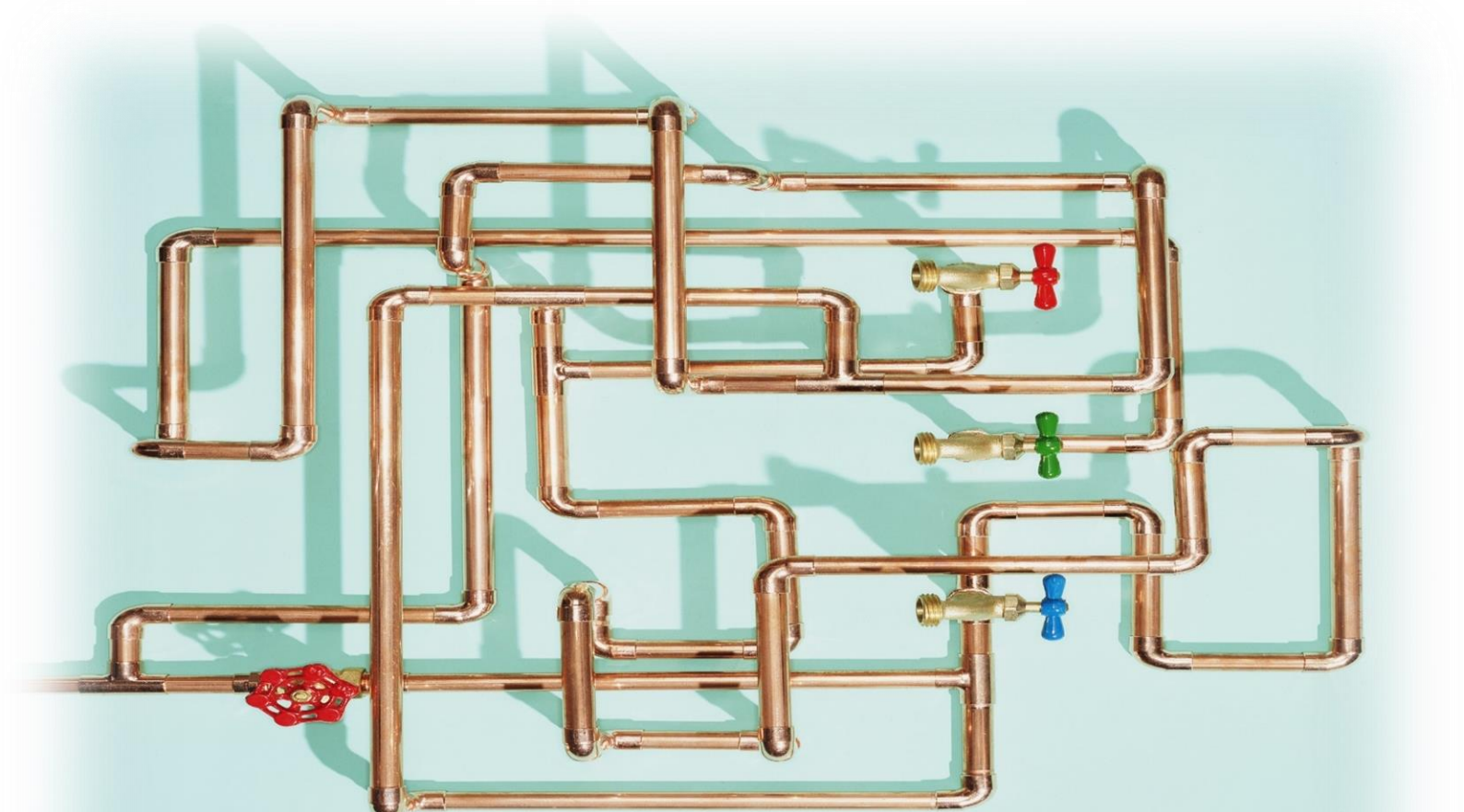


Electrical, Carpentry and Plumbing Skills

Vocational Qualification L1-L3



Summary

At Progressive Training, we offer students the opportunity to attain a Level 2 qualification in Electrical, Carpentry and Plumbing Skills. This builds a foundation to go on to a career in these trades, secure an apprenticeship or continue further education in a specific field.

The course covers a wide range of topics from basic plumbing techniques to more advanced electrical installations and carpentry skills (AQA unit award scheme). To complete the 2-year course, students will attain an accredited Vocational Qualification Level 1-Level 3.

Year 1

During the first year, the student will create a portfolio of skills and experience using a wide range of techniques and initiatives. Each AQA unit details the evidence needed to successfully complete it, such as practical tasks and knowledge assessments.

Key Insights

- Learners are required to demonstrate practical skills in plumbing, such as installing sinks, taps, and waste pipes.
- Safety precautions and adherence to rules are emphasized throughout the units.
- The electrical units focus on understanding circuits, components, and safe working practices.
- Different levels of complexity are present in the units, from basic plumbing installations to more advanced tasks like creating a ring main electrical circuit.
- The carpentry units focus on basic woodwork and joinery skills, using appropriate tools confidently and safely.
- Each unit is approved by AQA and has specific outcomes that learners must achieve.

Year 2

During the second year, the student will develop employability skills and further enhance the trade skills they learnt during year 1.

NOCN offers a range of employability qualifications to help people enter employment and succeed at work (see www.nocn.org.uk for further information).

Employability skills are personal qualities that make a person employable. They are sometimes called “soft skills” or transferable skills as they are different from technical skills and work experience in a particular job role or industry.

Employability skills can be applied to any area of work or life and are arguably more important now than ever before due to the rapidly changing job market.

NOCN Employability Skills Qualifications range from Entry Level 1 to Level 3. These qualifications have been designed to provide different groups of learners with the skills, attributes, and behaviours that they need to enter and succeed in the world of work.

During this final year, students will learn valuable skills in business by undertaking an Enterprise Project.

The project demonstrates proficiency in electrical, plumbing, and carpentry in the following ways:

1. **Electrical Proficiency:** The project showcases their ability to wire and install electrical systems effectively and safely. Ability to apply the principles and techniques learned in the course to design and execute electrical circuits in a simulated environment. This includes understanding electrical codes and regulations, working with wiring and electrical components, and troubleshooting any issues that arose during the installation process.
2. **Plumbing Proficiency:** The project demonstrates their proficiency in plumbing by successfully installing and maintaining plumbing systems. They showcase their knowledge of pipe fitting, fixture installation, and adherence to plumbing codes and regulations. The ability to solve plumbing problems efficiently and effectively, ensuring proper water flow, drainage, and functionality of the plumbing systems.
3. **Carpentry Proficiency:** In the project, they can display carpentry skills by measuring, cutting, and assembling various woodwork structures. Ability to apply knowledge of carpentry techniques to construct cabinets, furniture pieces, or other relevant carpentry projects. To demonstrate proficiency in carpentry and their quality of workmanship, attention to detail, and ability to create functional and aesthetically pleasing woodwork.

Overall, the project serves as a platform to showcase their proficiency in electrical, plumbing, and carpentry by applying theoretical knowledge to practical scenarios. It also demonstrates to prospective employers their ability to execute these trades with precision, adhere to industry standards and regulations, problem-solve effectively, and deliver high-quality work.

Unit Award Scheme

70057 INTRODUCTION TO PLUMBING

In successfully completing this unit, the Learner will have	Evidence needed
demonstrated the ability to	
1 complete an introduction to plumbing practical workshop	Summary sheet
2 sign a safety precautions form and adhere to all safety precautions and rules as outlined in the form	Summary sheet
3 listen to and follow instructions given by the tutor	Summary sheet
4 observe and follow practical demonstrations	Summary sheet
shown knowledge of	
5 how hot and cold water systems work	Summary sheet
6 how a basic central heating system works	Summary sheet
7 at least two basic plumbing installation techniques	Summary sheet
demonstrated the ability to	
8 install a temporary kitchen sink	Summary sheet

All outcomes recorded on an [AQA Summary Sheet](#) (25.0 KB)

Approved 3 June 2014

Level - Level One

Unit Award Scheme

118718 BASIC DOMESTIC PLUMBING

In successfully completing this unit, the Learner will have	Evidence needed
<p>shown knowledge of</p> <p>1 the importance of on site safety</p>	<p>Summary sheet and/or student completed work</p>
<p>2 the classification of safety signs</p>	<p>Summary sheet and/or student completed work</p>
<p>demonstrated the ability to</p>	
<p>3 create and secure a watertight pipe run using a 15 mm speedfit pipe and connectors</p>	<p>Summary sheet</p>
<p>4 securely fit a radiator to a wall using radiator brackets</p>	<p>Summary sheet</p>
<p>5 plumb in a functioning sink and tap</p>	<p>Summary sheet</p>
<p>6 dress a radiator.</p>	<p>Summary sheet</p>

All outcomes recorded on an [AQA Summary Sheet](#) (25.0 KB)

Approved 31 March 2023

Level - Level Two

Unit Award Scheme

120269 BASIC PLUMBING SKILLS: PUSH FIT AND COMPRESSION FITTINGS

In successfully completing this unit, the Learner will have	Evidence needed
demonstrated the ability to	
1 use a pipe slice to safely cut copper pipe accurately to a measured length	Summary sheet
2 use a plastic pipe cutter to safely cut plastic pipe accurately to a measured length	Summary sheet
3 connect two pieces of copper pipe with a compression fitting	Summary sheet
4 connect two pieces of plastic pipe with a push fit fitting	Summary sheet
5 fit a basin complete with a tap, trap and waste	Summary sheet
6 run the pipework neatly from a water supply to the basin using a plastic or copper pipe and the correct fittings	Summary sheet
7 test the pipework for leaks and make the necessary adjustments.	Summary sheet

All outcomes recorded on an [AQA Summary Sheet](#) (25.0 KB)

Approved 8 February 2024

Level - Entry Level

Unit Award Scheme

120951 PLUMBING INSTALLATIONS: REPLACING A TAP

In successfully completing this unit, the Learner will have	Evidence needed
shown knowledge of	
1 when a tap may need replacing	Summary sheet
2 how to turn off a water system and drain it down	Summary sheet
3 how to check for leaks and know the the main reasons why they occur	Summary sheet
demonstrated the ability to	
4 clean around the sink holes for secure fixings	Summary sheet
5 terminate the water pipes into a tap	Summary sheet
6 fix a tap onto a sink.	Summary sheet

All outcomes recorded on an [AQA Summary Sheet](#) (25.0 KB)

Approved 10 May 2024

Level - Entry Level

Unit Award Scheme

120952 PLUMBING INSTALLATIONS: REPLACING A SINK

In successfully completing this unit, the Learner will have	Evidence needed
shown knowledge of	
1 how to identify when a sink may need replacing	Summary sheet
2 how to turn off a water system and drain it down	Summary sheet
demonstrated the ability to	
3 remove the water and waste pipes from a sink	Summary sheet
4 measure and cut the waste pipes with accuracy	Summary sheet
5 clean around the sink holes for secure fixings	Summary sheet
6 fix a tap onto a sink and connect it to a water circuit	Summary sheet
7 connect the waste pipes to a sink and a waste circuit.	Summary sheet

All outcomes recorded on an [AQA Summary Sheet](#) (25.0 KB)

Approved 10 May 2024

Level - Entry Level

Unit Award Scheme

120757 PLUMBING: BUILDING A COLD WATER CIRCUIT

In successfully completing this unit, the Learner will have	Evidence needed
shown knowledge of	
1 what a cold water circuit is used for	Summary sheet
2 how to turn off a water system and drain it down	Summary sheet
demonstrated the ability to	
3 select the correct pipes for a water circuit	Summary sheet
4 measure and cut lengths of the pipe with accuracy	Summary sheet
5 fit a 90° elbow connector to join plastic pipes in a water circuit	Summary sheet
6 fit a push-fit equal tee join to spur off a water circuit	Summary sheet
7 fit a push-fit stop end at the end of a water circuit	Summary sheet
8 cut pipes to insert a push-fit isolating valve in a circuit	Summary sheet
9 join copper piping to plastic using push-fit connectors.	Summary sheet

All outcomes recorded on an [AQA Summary Sheet](#) (25.0 KB)

Approved 26 March 2024

Level - Entry Level

Unit Award Scheme

120949 PLUMBING INSTALLATIONS: BUILDING A WASTE PIPE CIRCUIT

In successfully completing this unit, the Learner will have	Evidence needed
shown knowledge of	
1 selecting the appropriate sized waste pipe for a job	Summary sheet
2 planning a waste route with adequate fall	Summary sheet
demonstrated the ability to	
3 measure and cut the waste pipes with accuracy	Summary sheet
4 fit 90° elbow joins to the plastic waste pipes	Summary sheet
5 fit 45° joins to the plastic waste pipes	Summary sheet
6 fix the waste pipes to a wall using appropriate fixings.	Summary sheet

All outcomes recorded on an [AQA Summary Sheet](#) (25.0 KB)

Approved 10 May 2024

Level - Entry Level

Unit Award Scheme

120948 PLUMBING INSTALLATIONS: CONNECTING AN OUTDOOR TAP TO A COLD WATER CIRCUIT

In successfully completing this unit, the Learner will have	Evidence needed
shown knowledge of	
1 what an outside tap is useful for	Summary sheet
2 how to turn off a water system and drain it down	Summary sheet
3 how to drill a hole through an external wall for a water pipe	Summary sheet
demonstrated the ability to	
4 select the correct pipes to extend a water circuit	Summary sheet
5 fit a push fit equal tee join to spur off a water circuit	Summary sheet
6 attach an outside tap to the circuit and fix it securely.	Summary sheet

All outcomes recorded on an [AQA Summary Sheet](#) (25.0 KB)

Approved 10 May 2024

Level - Entry Level

Unit Award Scheme

120932 INVESTIGATING HOW ELECTRICITY WORKS

In successfully completing this unit, the Learner will have	Evidence needed
demonstrated the ability to	
1 recognise the need for safety when using electricity	Summary sheet
2 name the main components in a circuit, eg bulb, motor, switch	Summary sheet
3 explain the function of a switch in a circuit	Summary sheet
4 describe at least two differences between an electrical conductor and insulator	Summary sheet
5 suggest at least one reason why it is important to have a mobile source of power, eg a torch	Summary sheet
6 draw a circuit using a pictorial representation	Summary sheet
7 create at least three simple electrical circuits using given equipment	Summary sheet
8 identify the main features of a complete electrical circuit	Summary sheet
9 check each component of the circuit to identify a problem	Summary sheet
10 recognise that a circuit must have a power source and a complete loop to work.	Summary sheet

All outcomes recorded on an [AQA Summary Sheet](#) (25.0 KB)

Approved 10 May 2024

Level - Entry Level

Unit Award Scheme

120584 IDENTIFYING ELECTRICAL CABLES

In successfully completing this unit, the Learner will have	Evidence needed
<p>shown knowledge of</p>	
<p>1 safe isolation</p>	<p>Summary sheet</p>
<p>2 how to identify at least three types of cables, ie Live, Neutral and Earth</p>	<p>Summary sheet</p>
<p>3 the role of the Earth wire and how it is identified</p>	<p>Summary sheet</p>
<p>demonstrated the ability to</p>	
<p>4 safely prepare cables for terminations using the correct tools, on at least one occasion.</p>	<p>Summary sheet</p>

All outcomes recorded on an [AQA Summary Sheet](#) (25.0 KB)

Approved 5 March 2024

Level - Entry Level

Unit Award Scheme

120954 ELECTRICAL INSTALLATIONS: CREATING A RING MAIN ELECTRICAL CIRCUIT

In successfully completing this unit, the Learner will have	Evidence needed
<p>shown knowledge of</p> <p>1 safe isolation and how to work safely with electrics</p>	<p>Summary sheet</p>
<p>demonstrated the ability to</p> <p>2 prepare at least three cables for terminations</p> <p>3 fit pattresses accurately and securely to a wall</p> <p>4 terminate the cables correctly into sockets</p> <p>5 attach the additional cables to sockets to continue the ring main circuit</p> <p>6 terminate the cables into sockets and junction boxes</p> <p>7 use cable clips to keep the cables tidy.</p>	<p>Summary sheet</p> <p>Summary sheet</p> <p>Summary sheet</p> <p>Summary sheet</p> <p>Summary sheet</p> <p>Summary sheet</p> <p>Summary sheet</p>

All outcomes recorded on an [AQA Summary Sheet](#) (25.0 KB)

Approved 10 May 2024

Level - Entry Level

Unit Award Scheme

120938 ELECTRICAL INSTALLATIONS: REPLACING AN ELECTRICAL SWITCHED PLUG SOCKET

In successfully completing this unit, the Learner will have	Evidence needed
shown knowledge of	
1 safe isolation and how to work safely with electrics	Summary sheet
2 when a socket may need replacing	Summary sheet
demonstrated the ability to	
3 prepare at least two cables for terminations	Summary sheet
4 fix pattresses securely and accurately into a board	Summary sheet
5 terminate cables into a two-gang socket	Summary sheet
6 tidy the cables using the correct cable clips.	Summary sheet

All outcomes recorded on an [AQA Summary Sheet](#) (25.0 KB)

Approved 10 May 2024

Level - Entry Level

Unit Award Scheme

116947 BASICS OF CARPENTRY AND SECOND FIX JOINERY

In successfully completing this unit, the Learner will have	Evidence needed
demonstrated the ability to	
1 follow verbal and written instructions to complete given carpentry and joinery tasks	Summary sheet
2 rebate and fit a hinge in either a door or window frame or a mock up of a door or window frame	Summary sheet
3 use a plane to reduce a piece of wood, door or window sash to a desired size and finish	Summary sheet
4 produce at least one example each of a mitre, rabbet and a mortise and tenon joint	Summary sheet and/or photograph(s)
5 safely and confidently use the appropriate tools, including battery drill, hand saw, clamp, tape measure, try square, plane, chisels and mallet.	Summary sheet

All outcomes recorded on an [AQA Summary Sheet](#) (25.0 KB)

Approved 14 April 2022

Level - Level One

Unit Award Scheme

117459 MAINTENANCE SKILLS: DEVELOPING BASIC JOINERY SKILLS

In successfully completing this unit, the Learner will have	Evidence needed
demonstrated the ability to	
1 identify the main hand tools used in basic carpentry	Student completed work
2 identify at least two materials used in basic carpentry	Student completed work
3 identify the personal protective equipment used in basic carpentry	Student completed work
4 produce a stool using one type of wood joint	Student completed work and/or photograph(s)
5 work effectively alongside others by maintaining a clean and tidy work environment.	Summary sheet

All outcomes recorded on an [AQA Summary Sheet](#) (25.0 KB)

Approved 19 August 2022

Level - Level One

Unit Award Scheme

119975 CONSTRUCTION: USING POWER TOOLS FOR CARPENTRY AND JOINERY

In successfully completing this unit, the Learner will have	Evidence needed
demonstrated the ability to	
1 identify and use a jigsaw appropriately	Summary sheet
2 identify and use a power drill appropriately	Summary sheet
3 identify and use an electric screw driver	Summary sheet
4 identify and wear the appropriate Personal Protective Equipment (PPE), while using power tools	Summary sheet
5 follow health and safety requirements while using carpentry and joinery power tools	Summary sheet
6 follow instructions to build an item using at least two power tools	Summary sheet
7 store the tools and equipment in a safe manner	Summary sheet
8 clean up the work area on completion of the tasks.	Summary sheet

All outcomes recorded on an [AQA Summary Sheet](#) (25.0 KB)

Approved 15 November 2023

Level - Entry Level

Unit Award Scheme

119366 DEVELOPING CARPENTRY SKILLS

In successfully completing this unit, the Learner will have	Evidence needed
<p>demonstrated the ability to</p> <p>1 identify the hand tools used in basic carpentry, including those used for marking, measuring and material removal</p>	Student completed work
<p>2 identify the materials used in basic carpentry</p>	Student completed work
<p>3 select appropriate tools for the completion of a joint</p>	Summary sheet
<p>4 identify the personal protective equipment (PPE) used in basic carpentry processes</p>	Student completed work
<p>5 work responsibly alongside others by maintaining a clean and tidy work environment and following Health & Safety rules</p>	Summary sheet
<p>6 seek and respond to guidance by following instructions and communicating appropriately</p>	Summary sheet
<p>7 clean up the area on completion of tasks.</p>	Summary sheet

All outcomes recorded on an [AQA Summary Sheet](#) (25.0 KB)

Approved 5 July 2023

Level - Level One

Unit Award Scheme

115310 CARPENTRY AND JOINERY BASICS

In successfully completing this unit, the Learner will have		Evidence needed
shown knowledge of		
1	at least two different types of wood that can be used in carpentry	Student completed work
2	at least two materials other than wood that are used in carpentry, eg glue, varnish, sealer, and why they are used	Student completed work
3	at least three tools used in basic carpentry and what their purpose is	Student completed work
4	at least three different types of joint used in woodwork and what each one is commonly used for	Student completed work
demonstrated the ability to		
5	identify at least three pieces of personal protective equipment (PPE) used in basic carpentry processes	Summary sheet and/or student completed work
6	identify at least five health and safety considerations for woodworking.	Summary sheet and/or student completed work

All outcomes recorded on an [AQA Summary Sheet](#) (25.0 KB)

Approved 5 May 2021

Level - Entry Level

Unit Award Scheme

116466 DEVELOPING CARPENTRY SKILLS

In successfully completing this unit, the Learner will have	Evidence needed
demonstrated the ability to	
1 identify the hand tools used in basic carpentry	Student completed work
2 identify the materials used in basic carpentry	Student completed work
3 identify the personal protective equipment (PPE) used in basic carpentry processes	Student completed work
4 apply safe working practices to produce at least two different wooden structures	Summary sheet
5 work responsibly alongside others by maintaining a clean and tidy work environment and following Health & Safety rules	Summary sheet
6 seek and respond to guidance by following instructions and communicating appropriately.	Summary sheet

All outcomes recorded on an [AQA Summary Sheet](#) (25.0 KB)

Approved 10 December 2021

Level - Level One