

National 5 Practical Metalworking (Course Code: C761 75)

SCQF Level 5 (24 Credit Points)

Why study Practical Metalworking?

If you're into getting hands-on and working with tools and enjoyed Practical Woodworking, then National 5 Practical Metalworking is the course for you! This course will teach you how to use a range of tools and equipment safely, and you'll get to work with different materials and processes. You'll pick up the skills to read diagrams and understand technical drawings, which will help you turn ideas into actual products. It's not just about following instructions – you'll also get the chance to problem solve, plan your work, and produce a finished metal project from start to finish.

The skills you pick up in this course can open doors to loads of careers in areas like design, engineering, craft, or graphics. Plus, you'll be learning practical skills that will set you up for work in industries where metalworking is key – from creating cool designs to building things that people use every day.

What will I study?

If you're interested in getting stuck in with your hands and learning how things are made, Practical Metalworking will give you the skills and experience you need. This course is all about developing your ability to use tools and equipment safely while working with metal. You'll get to grips with a range of techniques that will be useful in other areas like woodworking too. Plus, you'll learn how to work well with others in a workshop, which is a great skill for the future.

There are three main areas you'll study:

Bench Skills:

You'll learn how to use a variety of hand tools for metalwork, like for bench-fitting, sheet-metal work, and measuring and marking out. Some tasks will have more complex features to tackle. You'll also get the chance to read and understand technical drawings and diagrams, which will help you figure out how to complete both easy and tricky metalworking tasks.

Machine Processes:

Here, you'll improve your measuring and marking out skills while learning to use different metalworking machines and equipment. You'll work with a variety of metals and get experience in both common and more unfamiliar processes.

Fabrication and Thermal Joining:

This is where you'll really start to get hands-on with creating metalwork. You'll learn how to fabricate, form, and join metal parts, and even deal with some more complicated projects. You'll also develop skills in thermal joining, like welding, and continue to work on your measuring and marking out skills.

How will I be assessed?

The course assessment has **two** components **totalling 130 marks**:

- **Component 1: Question paper** – worth 60 marks (scaled to 30 towards the overall total)

You'll have a question paper to complete, which will test your knowledge of metalworking techniques and concepts. This will be set and marked by the Scottish Qualifications Authority (SQA).

- **Component 2: Practical activity** – worth 70 marks (scaled to 70).

For the practical part, you'll be asked to make a finished product from metal, showing off the skills you've learned. This will be assessed by a visiting SQA assessor, who will come to your workshop to check your work.

Your final grade is based on the total marks from both parts of the assessment, and the course is graded from A to D.

It's a good balance of theory and practical work, so you'll get to show what you know and what you can do!

Study Materials

- [SQA Past Papers Practical Metalworking National 5](#)
- [SQA Specimen Paper Practical Metalworking National 5](#)
- [SQA Understanding Standards Practical Metalworking](#)