



Year 11 Transition Engineering Workbook

Electrical Installation Level 2

Please take a 20 question quiz to test your knowledge of electrical installation [here](#).

At the end, make a note of any questions you got wrong or need more support with.

Write down some keywords or concepts below that you hadn't heard of before and research them further:

Fabrication & Welding Level 2

1) What is welding? Describe the process in simple terms.

2) What is sheet metal fabrication? Describe the process in simple terms.

3) Give examples of where you have seen welding before.

4) What does 'flashburn' mean and what safety measures can be put in place to eliminate it?

5) What type of safety equipment would you expect to wear in a welding workshop?

6) Can you name 5 employers in County Durham which have Fabrication and Welding as their main business function?

Fabrication & Welding Level 3

- 1) The oxyfuel cutting process uses oxygen and what other types of gases?**
- 2) What is the name of the device used to control the pressure on an oxyfuel cutting touch set?**
- 3) Which fuel gas can be used to cut low-carbon steel?**
- 4) Name 5 hand tools used in sheet metal fabrication:**
- 5) Name 3 machines used in sheet metal fabrication:**

BTEC Engineering

Level 3

1) How did you cultivate your interest in engineering in your home or outside school?

2) Explain mechanical engineering to a five year-old in three sentences:

3) What skills and abilities do you think are essential for an engineer?

4) When have you combined practical and technical ability in a project before?

After you've answered these questions, [please take this quiz.](#)