

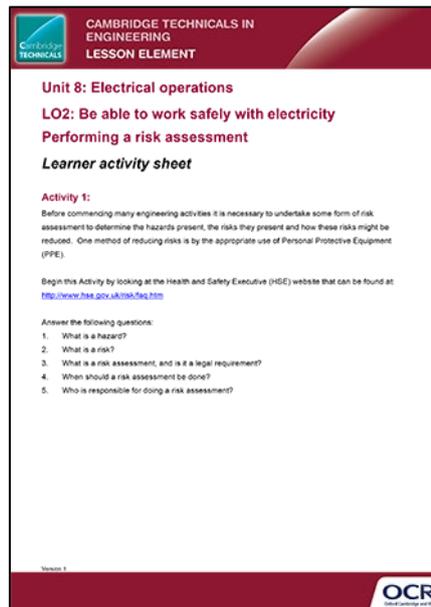
Unit 8: Electrical operations

LO2: Be able to work safely with electricity

Performing a risk assessment

Instructions and answers for teachers

These instructions should accompany the OCR resource ‘Performing a risk assessment’ activity which supports Cambridge Technicals in Engineering Level 3.



The Activity:

In Activity 1 learners have been directed to the Health and Safety Executive (HSE) website:
<http://www.hse.gov.uk/risk/faq.htm>

For Activity 2 learners have been tasked to produce a risk assessment for a particular engineering process.



This activity offers an opportunity for English skills development.



This activity offers an opportunity for maths skills development.

Suggested timings:

2 hours

Activity 1

In Activity 1 learners have been directed to the Health and Safety Executive (HSE) website:

<http://www.hse.gov.uk/risk/faq.htm>

The website provides detailed guidance on the background and process of performing risk assessment.

Answers to the questions are as follows:

1. What is a hazard?

A hazard is anything that may cause harm, e.g. chemicals, electricity, working from ladders, noise etc.

2. What is a risk?

Risk is the chance, high or low, of somebody being harmed by the hazard, and how serious the harm could be.

3. What is a risk assessment, and is it a legal requirement?

A risk assessment is a careful examination of what, in your work, could cause harm to people, so that you can weigh up whether you have enough precautions or whether you should do more.

It is a legal requirement for an employer, or for someone who is self employed, to perform risk assessments.

4. When should a risk assessment be done?

You should carry out a assessment before you do work which presents a risk of injury or ill health.

5. Who is responsible for doing a risk assessment?

The employer is responsible, but can delegate the risk assessment to someone (but the employer ultimately remains responsible).

Teachers could set learners further questions based on the HSE website guidance.

Activity 2

For Activity 2 learners have been tasked to produce a risk assessment for a particular engineering process.

The risk assessment should include hazards present, the risks they present and how the risks might be reduced. It should also include the use of appropriate Personal Protective Equipment (PPE).

Learners have been provided with a table template based on one produced by the Health and Safety Executive (HSE). Learners should complete the table. Teachers may adapt the table format if required.

What are the hazards?	Who might be harmed and how?	What are you already doing?	Do you need to do anything else to control this risk?	Action by who?	Action by when?	Done
Chemical fumes	Operators, colleagues and visitors	Ventilation by open window	Fume extraction fan Wear face mask (PPE)	Jon Smith	1/3/14	Pending

Learners might also append a risk matrix to their risk assessment (see <http://www.hse.gov.uk/risk/faq.htm> for details). The risk matrix is used to score the likelihood of harm occurring (due to a hazard) and the potential severity of the harm (post-reduction methods).

Teachers could further extend the activity by tasking learners to produce a method statement for the activity. The differences between risk assessment and a method statement are explained on the HSE website.

We'd like to know your view on the resources we produce. By clicking on '[Like](#)' or '[Dislike](#)' you can help us to ensure that our resources work for you. When the email template pops up please add additional comments if you wish and then just click 'Send'. Thank you.

If you do not currently offer this OCR qualification but would like to do so, please complete the Expression of Interest Form which can be found here: www.ocr.org.uk/expression-of-interest

OCR Resources: *the small print*

OCR's resources are provided to support the teaching of OCR specifications, but in no way constitute an endorsed teaching method that is required by the Board, and the decision to use them lies with the individual teacher. Whilst every effort is made to ensure the accuracy of the content, OCR cannot be held responsible for any errors or omissions within these resources.

© OCR 2015 - This resource may be freely copied and distributed, as long as the OCR logo and this message remain intact and OCR is acknowledged as the originator of this work.

OCR acknowledges the use of the following content: English and Maths icon: AirOne/Shutterstock.com

Please get in touch if you want to discuss the accessibility of resources we offer to support delivery of our qualifications: resources.feedback@ocr.org.uk