

Tutors Assignment Correction Guide

Module 8 Safety

Unit 8.1 Workshop equipment

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This guide is to assist you in the correction of the assignments for this unit.

If more than one tutor is involved with Student Support in your institution, it will also assist in ensuring that there is a consistency in the weighting of assignments, and questions within assignments.

The Core Curriculum is designed to be offered utilising competency standards, so the elements that need to be included in answers are specified in the guide. It will therefore assist those who wish to use a competency assessment of Completed or Incomplete.

It is particularly important in the Caribbean to ensure that the assignments are assessed as indicated in the guide, as regional recognition is an ultimate (and desired) outcome.

Assessment Instrument

Module 8 Safety

Unit 8.1 Workshop equipment

Assignment No. 8.1 - 1

The teacher trainee has successfully:

- ☐ identified safety hazards related to workshops
- ☐ stated the precautions to be observed in relation to each identified hazard
- ☐ identified electrical outlets of different voltages
- ☐ stated the effect of incorrect electrical supply connection
- ☐ identified possible dangers to personal safety from electrical machines and portable equipment
- ☐ determined appropriate locations for electrical/main switches and safety cut-off buttons
- ☐ identified the classes of fires and the appropriate controls and extinguishers for each class
- ☐ state the method of operating turnover and trigger type fire extinguishers



Assignment No. 8.1-1

Unit 8.1 Workshop equipment

To be completed and returned to your Tutor for assessment.

This is an Open Book assignment and you may refer to whatever resources you have at your disposal.

Question 7 is a practical exercise to be carried out in a workshop.

Name: _____ Due Date: _____

Question 1

Name three groups of hazard that you might find in the workshop.

1.1 _____

1.2 _____

1.3 _____

2 marks each – 6 marks

Question 2

Name four hazards in your workshop and write the precautions you should take for each.

	Hazard	Precaution
2.1	_____	_____
2.2	_____	_____
2.3	_____	_____
2.4	_____	_____

2 marks each – 8 marks

Question 3

Give five examples of unsafe acts or unsafe conditions that could happen in your workshop.

- 3.1 _____
- 3.2 _____
- 3.2 _____
- 3.4 _____
- 3.5 _____

2 marks each – 10 marks

Question 4**Electrical hazards**

Answer true or false to the following statements:

- 4.1 _____ Overheating could happen when you overload a connection point.
- 4.2 _____ A spark is the same as an arc.
- 4.3 _____ An arc can fly through the air to nearby metal objects.
- 4.4 _____ A person cannot suffer burns from getting an electric shock.
- 4.5 _____ A person may skip a heart beat if they get an electric shock.
- 4.6 _____ Loose clothing can be a hazard when standing near moving metal machinery.

1 mark each – 6 marks

Question 5

Fill in the gaps in the following statements.

- 5.1 _____ A Class ____ fire is where plastic, rubber, wood, paper, cloth is burning.
- 5.2 _____ A Class ____ fire extinguisher should be used for flammable liquid fires.
- 5.3 _____ The first thing you should do to put out an electrical fire is ____ the power.
- 5.4 _____ A Class ____ fire extinguisher should be used for flammable reactive metal fires.
- 5.5 _____ Special _____ can be used to put out oil fires.
- 5.6 _____ The three basic element of a fire are_____, _____ and _____.

2 marks each – 12 marks

Question 6

Explain what PASS stands for when using a handle and trigger-type fire extinguisher.

- 6.1 P _____
- 6.2 A _____
- 6.3 S _____
- 6.4 S _____

2 marks each – 8 marks

Question 7

Your supervisor will check that you can correctly identify the following in your workshop:

- electrical outlets
- all main switches
- all safety cut-off switches

Supervisor's Certificate

On ____ / ____ / ____, I observed _____
(Date) (Student name)

in the workshop and they

- correctly identified each electrical outlet and stated the voltage at each outlet
- located all main switches in the workshop
- located all safety cut-off switches in the workshop.

Signed _____
(Supervisor)

Supervisor's name _____
(Print)

10 marks
Total: 60 marks



Assignment No. 8.1-1

Unit 8.1 Workshop Equipment

Guidelines for the correction and weighting of questions for Assignment 8.1 – 1.

Question 1

Name three groups of hazard that you might find in the workshop.

Chemical or Physical or Biological or Psychological

2 marks each – 6 marks

Question 2

Name four hazards in your workshop and write the precautions you should take for each.

	Hazard	Precaution
2.1	_____	_____
2.2	_____	_____
2.3	_____	_____
2.4	_____	_____

Refer to text of teaching manual for examples.

2 marks each – 8 marks

Question 3

Give five examples of unsafe acts or unsafe conditions that could happen in your workshop.

3.1	_____
3.2	_____
3.2	_____
3.4	_____
3.5	_____

Refer to text of teaching manual for examples.

2 marks each – 10 marks

Question 4

Answer true or false to the following statements:

- 4.1 **True** Overheating could happen when you overload a connection point.
- 4.2 **False** A spark is the same as an arc.
- 4.3 **True** An arc can fly through the air to nearby metal objects.
- 4.4 **False** A person cannot suffer burns from getting an electric shock.
- 4.5 **True** A persons heart may skip a beat if they get an electric shock.
- 4.6 **True** Loose clothing can be a hazard when standing near moving machinery.

1 mark each – 6 marks

Question 5

Fill in the gaps in the following statements

- 5.1 A Class **A** fire is where plastic, rubber, wood, paper or cloth is burning.
- 5.2 A Class **B** fire extinguisher is used for flammable liquid fires.
- 5.3 The first thing you should do to put out an electrical fire is **turn off** the power.
- 5.4 A Class **D** fire extinguisher should be used for flammable reactive metal fires.
- 5.5 Special **dry powder extinguishers** can be used to put out oil fires.
- 5.6 The three basic elements of a fire are: **fuel**, **oxygen** and **heat**.

2 marks each – 12 marks

Question 6

Explain what PASS stands for when using a handle and trigger-type fire extinguisher.

6.1 *Pull (the pin)*

6.2 *Aim (at the base of the fire)*

6.3 *Squeeze (the nozzle)*

6.4 *Sweep (the base of the fire)*

2 marks each – 8 marks

Question 7

Supervisor must sign the Certificate.

10 marks

Total: 60 marks