

SAMPLE ASSIGNMENT BRIEF

UNIT 3 - CREATE THE BUILT ENVIRONMENT: USING TOOLS



Construction and the Built Environment

Level 1 Unit 3 Create the built environment: using tools (CBE1U3)

Sample Assignment Brief **(Approximately eighteen hours under controlled conditions)**

Evidence requirements

You must produce evidence of achievement of the assessment criteria. Upon completion of this unit you should:

- 1 understand the health, safety and welfare issues associated with construction
- 2 be able to select appropriate personal protective equipment (PPE), tools, materials and access equipment
- 3 know what kind of technical information is needed to complete given tasks
- 4 be able to work safely when using and maintaining tools and disposing of construction waste.

In order to attain a high mark in this unit, you must address all of the above. A table showing how the Assessment Criteria topics are weighted should be shown to learners in order that they understand how the final mark is determined.

You are required to complete four assessed tasks to achieve the assessment criteria which are set out in the marking grid for the unit.

Scenario

A large national developer has purchased a plot of land near to a primary and secondary school. Close to the development site are: residential housing, a large public park and sheltered housing for the elderly. The area is served well with frequent public transport to and from the city centre. The developer is going to erect 155 dwellings; these will consist of detached, semi detached, town houses, apartment block and a small number of bungalows. Services to the site are in place (water, electricity, gas and drainage) and work has been completed to form an access road to and from the construction site. The proposed development site was previously home to an old factory (now demolished) and there are plans to build a small number of retail units and a pub/restaurant.

The development site has a number of trees with Tree Protection Orders (TPOs) on them. These orders make it an offence to remove, prune or damage protected trees even if they are on private land. If you want to carry out work on a protected tree, you will need permission from the local authority.

Task 1

Health, safety and welfare issues associated with construction

You can show this evidence by completing the following:

Recognise the importance of health and safety on construction sites. The scenario given will include a great deal of development work over a period of time. Close by to the development site are schools and housing. Your task is to create a leaflet/ poster that will warn young people of the dangers of entering a large development site without permission. Consider the use of a PowerPoint presentation to help/ reinforce the health and safety message.

Identify good practice in terms of welfare on construction sites:

adequate lighting, temperature, cleanliness on-site, protection from bad weather, washing areas, catering, storage and changing area for clothing.

Recognise and anticipate risks and identify good practice in terms of health and safety when carrying out construction activities.

Work as a team to prepare and maintain a safe, clean and tidy work area

Task 2

Selection of appropriate PPE, tools, equipment and materials

You can show this evidence by completing the following:

Identify a range of personal protective equipment (PPE) for general site wear and specific activities.

Select and organise the correct tools, access equipment, materials and PPE for a given craft activity. Work as a team to prepare and maintain a safe, clean and tidy work area

Task 3

Technical information

You can show this evidence by completing the following:

Using technical information provided, produce a short description of how the following would be used:

- Specifications
- Schedules
- Drawings
- Manufacturers' information

Task 4

Working safely when using and maintaining tools and disposing of construction waste

You can do this by the following:

Identify a range of crafts from construction and building services skills using hand tools with different materials.

Apply safe working practices and manage risks to perform simple construction activities. Include use of PPE, safe waste disposal and witness statements.

Describe methods of maintaining hand tools including sharpening and cleaning.

An example of this:

- form simple wood joints such as housing, corner halving or mortice and tenon
- construct a simple straight brick wall in stretcher bond, three and a half bricks long by four courses high.

Weighting of assessment criteria topics

Assessment criteria topic	Weighting	Marks
1 Health, safety and welfare issues associated with construction	12.5%	6
2 Selection of appropriate tools, PPE, equipment and materials	12.5%	6
3 Technical information	12.5%	6
Working safely when:	62.5%	30
4.1 Using tools	[31.25%]	[15]
4.2 Maintaining hand tools	[18.75%]	[9]
4.3 Disposing of construction waste	[12.5%]	[6]
Total	100%	48

Assessment grid

Assessment criteria topic	Band 1	Band 2	Band 3
	The learner has:		
1 Health, safety and welfare issues associated with construction	<p>0 – 2 marks</p> <p>Recognised and complied with a limited range of good health, safety and welfare practices and made a limited contribution, as part of a team, to a safe and tidy workplace.</p>	<p>3 – 4 marks</p> <p>Recognised and complied with a wide range of good health, safety and welfare practices and made an effective contribution, as part of a team, to a safe and tidy workplace.</p>	<p>5 – 6 marks</p> <p>Recognised and complied with a comprehensive range of good health, safety and welfare practices and made an important contribution, as part of a team, to a safe and tidy workplace.</p>
2 Selection of appropriate tools, PPE, equipment and materials	<p>0 – 2 marks</p> <p>Selected some of the correct tools, PPE, equipment and materials needed for specific tasks.</p>	<p>3 – 4 marks</p> <p>Selected most of the correct tools, PPE, equipment and materials needed for specific tasks.</p>	<p>5 – 6 marks</p> <p>Selected all of the correct tools, PPE, equipment and materials needed for specific tasks and rejected others that were not needed.</p>
3 Technical information	<p>0 – 2 marks</p> <p>Selected some of the technical information needed and used it to variable effect.</p>	<p>3 – 4 marks</p> <p>Selected most of the technical information needed and used it correctly in most cases.</p>	<p>5 – 6 marks</p> <p>Selected a comprehensive range of the technical information needed and used it correctly in most cases.</p>
Working safely when:	0 – 10 marks	11 – 20 marks	21 – 30 marks
4.1 Using tools	<p>[0 – 5] marks</p> <p>Worked safely some of the time when using a range of tools to produce acceptable outcomes.</p>	<p>[6 – 10] marks</p> <p>Worked safely most of the time when using a range of tools to produce good outcomes.</p>	<p>[11 – 15] marks</p> <p>Consistently worked safely when using a range of tools to produce high quality outcomes.</p>
4.2 Maintaining hand tools	<p>[0 – 3] marks</p> <p>Briefly described, and performed to a variable standard, a limited range of techniques used to maintain tools to an acceptable standard.</p>	<p>[4 – 6] marks</p> <p>Briefly described, and competently performed, a wide range of techniques used to maintain tools to an acceptable standard.</p>	<p>[7 – 9] marks</p> <p>Described in detail, and skilfully performed, a comprehensive range of techniques used to maintain tools to an acceptable standard.</p>
4.3 Disposing of construction waste	<p>[0 – 2] marks</p> <p>Identified a few good practices and used them to dispose of waste some of the time.</p>	<p>[3 – 4] marks</p> <p>Identified many good practices and used them to dispose of waste most of the time.</p>	<p>[5 – 6] marks</p> <p>Identified a comprehensive range of good practices and used them to dispose of waste all of the time.</p>

Personal, Learning and Thinking Skills

The list below is indicative of the way this unit supports the development of PLTS, as opposed to the achievement of PLTS that are possible through the assessment. The unit supports the development of more PLTS than are covered through the assessment criteria alone. Alternative approaches could be selected.

The learner could develop PLTS by:

Independent enquirers

- planning craft activities and selecting appropriate tools, materials and PPE

Creative thinkers

- asking questions about the technical information they use

Reflective learners

- reviewing their own skills when using hand tools to perform craft activities

Team workers

- contributing to the preparation and maintenance of a clean and tidy work space

Self-managers

- organising time and resources to complete practical craft activities

Effective participators

- identifying ways to improve their practical skills.

Suggested learning resources:

Books

Building Craft Foundation Published by: Nelson Thorne, 2002 ISBN: 074876531	Brett, Peter
Carpentry and Joinery for building craft learners 1, 2 nd edition Published by: Nelson Thornes, 1981 ISBN: 0748702873	Brett, Peter
Brickwork 1, 3 rd edition Published by: Nelson Thornes, 1983 ISBN: 0748702660	Nash, WG
Painting & Decorating: An Information Manual Published by: Blackwell Science Ltd, 1989 ISBN: 0632041595	Fulcher, A
Basic Plumbing Published by: Meredith Corporation, 2002 ISBN: 0696213206	Stanley
Electrical Wiring: Domestic, 12 th edition Published by: Butterworth–Heinemann ISBN: 0750661437	Scaddan, Brian
DIY Home Maintenance for Dummies All-in-One Published by: John Wiley & Sons, 2005 ISBN: 0764570544	Howell, Jeff
Collins Complete DIY Manual Published by: Collins, 2001 ISBN: 0004141060	Jackson, Albert & Day, David
Safe Start, Safety Handbook, GE 707 Published by: CITB-ConstructionSkills, 2005 ISBN 0902029746	Hands, Denis & CITB
Construction Site Safety, 1999 Update Pack, GA 700/99 Published by CITB, 1994 ISBN 1 85751 006 2	CITB
Safe use of work equipment, 4 th edition Approved Code of Practice and Guidance Published by: HSE, 1998 ISBN: 0717616266	HSE

Journals and magazines

Home DIY

Videos, CDs and DVDs

How to DIY – the Complete Series

Available from: Woolworth

Product ID: 50872428

Video and DVD

Teaching you DIY Skills with Tommy Walsh

Published by: Focus Multimedia Ltd

CD-ROM

Websites

- Construction Industry Training Board
- Health and Safety Executive
- Institution of Occupational Safety and Health
- Royal Society for the Prevention of Accidents

www.citb.co.uk

www.hse.gov.uk

www.iosh.co.uk

www.rospa.co.uk