

Unit 16B

The Circular Economy in the Construction Sector

Importance of good purchasing and site waste management practices

1 Introduction

Unit 16B provides resources for vocational trainers seeking to incorporate the circular economy into their courses in the Construction sector, focusing on promoting Reduce, Reuse, Recycle on Construction sites.

This unit explores the importance of understanding available tools within Procurement and Site Waste Management Plans to help achieve circularity in the Construction sector.

2 Learning Outcomes

Knowledge	To know the types of materials that are generated on construction sites.
Skills	To quantify the types and amounts of waste being generated on a construction site.
Competencies	To understand the importance of the financial and environmental costs from good site waste management practices.
EQF Level	This material is mainly suited to EQF level 4.



3 Lesson Plan

Method	Description	Suggested duration in minutes (total minutes)													
Brainstorming session	Brainstorming where you as a trainer write down definitions, notions and connotations ought to be used for future discussions and references. You can continue the brainstorming session with the following questions if needed: <ul style="list-style-type: none"> • Discuss the 'Reduce Reuse Recycle' concept within the Construction. Explore what benefits could this scheme bring (financial, environmental, other). 	15													
Presentation by trainer using PPT	<table border="1"> <tr><td>Overview</td></tr> <tr><td>Unit Learning Objectives</td></tr> <tr><td>Benefits of Reduce, Reuse, Recycle</td></tr> <tr><td>Procurement</td></tr> <tr><td>Discussion</td></tr> <tr><td>Potential Procurement KPIs</td></tr> <tr><td>BREEAM</td></tr> <tr><td>Environmental Performance Tools</td></tr> <tr><td>Site Management Plans</td></tr> <tr><td>Cost of Construction Waste</td></tr> <tr><td>Discussion</td></tr> <tr><td>Case Study – Kaleseramik (Turkey)</td></tr> <tr><td></td></tr> </table>	Overview	Unit Learning Objectives	Benefits of Reduce, Reuse, Recycle	Procurement	Discussion	Potential Procurement KPIs	BREEAM	Environmental Performance Tools	Site Management Plans	Cost of Construction Waste	Discussion	Case Study – Kaleseramik (Turkey)		30
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Assessment	Quiz	15													

4 Quiz

1. Which one **is not** an awarded credit in BREEAM?
Answer: Disposal of the Materials
2. _____of the world's water consumption are caused by domestic use?
Answer: 11%



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3. _____ Plans provide the reporting structure to
measure waste performance across the site.

Answer: Site Waste Management.