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Unit 8A
Transport Sector
Circular Economy in Logistics

1   Introduction

Unit 8A provides resources for vocational trainers seeking to incorporate the circular economy into their courses in the logistics sector. The role of automation and IT solutions in supply chain, urban supply chain, and urban logistics terminals are examined. Their relevance to diminish the transport carbon footprint is stablished, as well as optimisation of logistics processes taking into account the interests of business, urban population, retail and e - commerce. Reverse logistics, path optimisation, better modes of transport as part of the sustainable supply chain in a circular economy approach for logistics.

2   Learning Outcomes

Knowledge	To understand the need for and benefits to apply circular economy principles to logistics for the transport sector.
Skills	To identify the potential of the circular economy in in logistics for the transport sector.
Competencies	To be able to apply circular economy principles in logistics for the transport sector.
EQF Level	This content is mainly suitable for EQF level 4.

3   Lesson Plan

The following table can be used as a template for structuring a training programme at level 4:

Method	Description	Suggested duration in minutes (total minutes)
Brainstorming session	Brainstorming where you as trainer write down definitions, notions and connotations to be used for future discussions and reference. You can continue the brainstorming session with the following questions if needed: - Think about how IT and automation can help make logistics more efficient in your city.	

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	- What do you think are the challenges of implementing IT and automation for logistics? - What do you think are the benefits of implementing IT and automation in logistics?	
Presentation by trainer using PPT	Overview	70
	Unit Learning Objectives	
	Introduction	
	Content	
	Discussion Point 1	
	Case Study 1 – Stockholm UMS	
	Case Study 2 – Automation in DHL	
	Discussion Point 2	
	Summary	
	You Have Learned	
Assessment	Quiz	30

4 Quiz

1.   Which of the following is an example of CE in logistics?
Answer: 1) Using automated technology including robotics

2.   What percentage of Europe's transport emissions are from road logistics?

Answer: 1) 59%

3.   What are the benefits of RPA?
Answer: 4) All of the above