Unit 10C

The Circular Economy in the Transport Sector

Transport – Vehicle and Transportation

The Digitalisation of the Transport Sector

1 Introduction

Unit 10C provides resources for vocational trainers seeking to incorporate the circular economy into their courses in the Transport Sector, focusing on vehicles and transportation. This unit explores the increasing digitalisation and new technologies within the transport sector and circular business models that can be adapted to integrate digitalisation. This unit explores concepts of sharing, product as a service and virtualisation can create circular solutions for the environmental impact of the transport sector, while also encouraging behavioural change in private car users.

2 Learning Outcomes

Knowledge	Understand and identify circular business models can contribute to the circularity and decarbonisation of the transport sector.
Skills	Identify circular economy approaches and opportunities of digitalisation within the transport sector.
Competencies	Apply circular economy digitalisation principles to both public transport and private vehicles.
EQF Level	This content is mainly suitable for 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: ● What is the importance and main benefits of shifting towards a digital based transport system? ● How much does travel/mobility currently rely on digitalisation?	15

Funded by the
Erasmus+ Programme
of the European Union

CIRCLE
The CIRCular Economy
through Integrated LEarning

Presentation by trainer using PPT	Overview	30
	Unit Learning Objectives	
	Digitalisation Introduction	
	Discussion Points	
	Circular business models for digitalisation	
	Behavioural Change	
	The Pandemic	
	Discussion Points	
	Virtualisation	
	Virtual Conferences	
	Case Study – V-Ex	
	Discussion Points	
	Car Sharing	
	Case Study – Share Now	
	Mobility as a Service	
	Case Study – UbiGo	
	Discussion Points	
	Combining Digitalisation with Electrification	
	Summary	
Assessment	Quiz	15

4 Quiz

1. **What does MaaS stand for?**

   Answer: Mobility as a Service

2. **What is Virtualisation**

   Answer: The delivery of a utility in the absence of a product

3. **The pandemic has stimulated a significant change in behaviour. During this time, an increase in _____ was observed.**

   Answer: Electric vehicle purchases