



## Unit 13A

# The Circular Economy in the Agriculture Sector

## Non-natural waste management in agriculture

### 1 Introduction

Unit 13A provides resources for vocational trainers seeking to incorporate the circular economy into their courses in the Agriculture sector, focusing on the most relevant different types of non-natural waste generated in agriculture with a specific in-depth analysis on plastic materials, according to their relevance for the sector. In addition, the unit explores best practises that demonstrate how non-organic wastes and residues can improve resource efficiency in a circular economy perspective.

### 2 Learning Outcomes

<b>Knowledge</b>	Understand the need for and benefits of applying circular economy principles to non-natural waste management in agriculture.
<b>Skills</b>	Identify circular economy principles in the non-natural waste management in agriculture.
<b>Competencies</b>	Apply circular economy principles in the non-natural waste management in the agricultural sector.
<b>EQF Level</b>	This material is mainly suitable for EQF Level 4

### 3 Lesson Plan

<b>Method</b>	<b>Description</b>	<b>Suggested duration in minutes (total minutes)</b>
<b>Brainstorming session</b>	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"> <li>Discuss the importance of waste produced by the agricultural sector, focusing on non-natural ones. According to the principles of Circular Economy,</li> </ul>	15



	which waste treatment methods might be the most sustainable ones?	
<b>Presentation by trainer using PPT</b>	Overview	30
	Unit Learning Objectives	
	Non-natural waste in farms	
	Different types of non-natural waste in farms	
	European Plastic Waste Generation	
	Impact of non-natural waste	
	Plastic use in agriculture	
	Discussion Points	
	Life-time of agri plastic	
	Alternative to agri-plastics: bio-based materials	
	Discussion Points	
	Non-natural waste management	
	Circular solutions	
	Reducing	
	Reusing	
	Discussion Points	
	Recycling	
Collection schemes in Europe		
Case Study: Solway Recycling		
Case Study: Alipur		
Case Study - Cascina pulita		
Discussion Points		
<b>Assessment</b>	Quiz	15

#### 4 Quiz

- 1. What are the prerequisites for the recycling of plastic and the use of recycled materials in the creation of new products?**

Answer: Both (High recovery rates and Good quality of the plastic waste collected)

- 2. Using liquid fertiliser or bulk buying fertiliser is an example of...**

Answer: Reducing

- 3. The EU Directive 2008/98/EC is focused on...**

Answer: Agri-plastic.