



Unit 1: Advanced manufacturing - companies' mindset and current trends

Subunit 1.1: Basics

Learning	Knowledge	Skills	Responsibility and Autonomy
poutcomes (paste the appropriate LOs from the LOs Matrix)	 fundamental knowledge of advanced manufacturing: o key characteristics of 1st, 2nd, 3rd and 4th industrial revolution o principles of industry 4.0 	 Identify and illustrate the 4 development stages of industrial revolution compare key characteristics of 3rd and 4th industrial revolutions in order to recognise the benefits of the 4th industrial revolution in comparison with the 3rd one identify key principles of industry 4.0 explain how to apply key characteristics of industry 4.0 to examples from its respective VET field/ industry sector provide examples of the use of advanced manufacturing in different sectors show benefits of implementing advanced manufacturing for the improvement of product quality, cost reduction, flexibility to adapt to changes in the market and reduction of time to get new products to market distinguish between terms and concepts of digitization, digitalization and digital transformation differentiate between digitalization and Industry 4.0 in order to 	 demonstrate knowledge and skills obtained for development of cooperation between VET and busines sector

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	recognise the evolution			
	demonstrate knowledge			
		kills obtained for		
		opment of		
	cooper			
	between VET and			
	business sector			
		industrial		
	production paradigm			
	i i	in technologies		
		re transforming		
	• Industria	al production		
Type of activity	🖾 PDF	🖾 Test/Quiz		
		□ Game		
	🗆 Image/Infographic	C Other (specify)		
		Other (specify)		
	🗵 Video			
Duration	90 minutes			
Moodle and seen by learners)	 https://www.youtube.com "The Robot Revolution: the https://www.youtube.com 	Advanced Manufacturing" m/watch?v=KyWuHcvyqD0 he New Age of Manufacturing" m/watch?v=HX620 minutes)M4QunVmA 0 minutes): "Industry 4.0 for Advanced		
	 Read the following article (15 Terms" <u>https://www.manufac</u> Complete the short quiz (15 m 	5 minutes): "Glossary of Advanced Manufacturing acturing.gov/glossary		
Assessment	Terms" <u>https://www.manufac</u>	5 minutes): "Glossary of Advanced Manufacturing acturing.gov/glossary minutes).		
	Terms" https://www.manuface 4. Complete the short quiz (15 mLearner will answer short quiz on the mean of the periodPC, laptop, tablet, smartphone, Intern	5 minutes): "Glossary of Advanced Manufacturing acturing.gov/glossary minutes). topic. net connection		
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