



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

Subunit 1.1: Basics

Activity 1.1.1: Introduction to industry 4.0

Learning	Knowledge	Skills	Responsibility and Autonomy
Dutcomes paste the appropriate LOs from he 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 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 				
		and skills obtained for			
		development of			
		cooperation			
		between VET and			
		business sector			
		of the industrial			
		production paradigm			
		Iist 9 main technologies that are transforming			
		that are transforming industrial production			
There is the set of the set			1		
Type of activity	⊠ PDF		⊠ Test/Quiz		
	🗆 PPT	□ Game □ Other (specify)			
	Image/Infographic			ecify)	
	🖾 Video				
Duration	00 minutos		<u> </u>		
Duration	90 minutes				
Activity (to be inserted into Moodle and seen by	With the help of prepared articles and videos, we will provide basic information on industry 4.0 to be able to better understand the topic.				
learners)					
	Industry 4.0, also known a	as the fourth indust	rial revolution	n, takes the emphasis on digital	
	technology from recent decades to a whole new level with the help of interconnectivity				
	through the Internet of Things (IoT). It thrives to create a more connected/holistic				
	ecosystem by combining IIoT, big data and smart manufacturing while at the same time				
	focusing heavily on interconnectivity, automation, machine learning, and real-time data.				
	To complete this unit, please do the following activities:				
	To complete this unit, please do the following activities:				
	1. Read the following article (15 minutes):				
	"What is Industry 4.0? Everything you need to know"				
	https://www.techradar.com/news/what-is-industry-40-everything-you-need-to-know				
	2. Read the following article (45 minutes):				
	"Industry 4.0: the essence explained in a nutshell" in the				
article "Industry 4.0: the fourth industrial revolution – guide to Industrie 4.				de to Industrie 4 0"	
	https://www.i-scoop.eu/industry-4-0/				
	<u>Inteps.//www.rscoop.cu/r</u>	nddstry - 0/			
	3 Watch the followi	ng videos (20 minu	ites).		
	3. Watch the following videos (20 minutes):				
	"What is Industry 4.0" <u>https://www.youtube.com/watch?v=zlgDkbhDIwo</u> o "What is the Fourth Industrial Revolution"				
	https://www.youtube.com/watch?v=kpW9JcWxKq0				
	o "Industry 4.0: A Brief History"				
	https://www.youtube.com/watch?v=JCswJIdVoXk				

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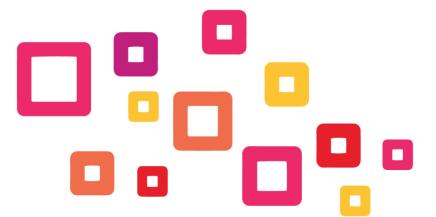








	4. Complete the short quiz to assess your knowledge.
Assessment	Online quiz
Resources	Computer with internet access Access to the platform/articles
Further reading	





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