## **Subunit 1.1: Basics**

Activity 1.1.4: Industry 4.0 and VET				
Learning Outcomes	Knowledge	Skills	Responsibility and Autonomy	
	• fundamental knowledge of advanced manufacturing: o key characteristics of 1st, 2nd, 3rd and 4th industrial revolution • 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,     digitalization and digital     transformation • differentiate between     digitalization and     Industry 4.0 in order to     recognise the evolution • demonstrate knowledge     and skills obtained for     development of     cooperation		
 		between VET and business sector		













		production paradigm  • list 9 main technologies that are transforming  • industrial production	
Type of	⊠ PDF	⊠ Test/Quiz	
activity	□ PPT	□ Game	
	☐ Image/Infographic	☐ Other (specify)	
	⊠ Video	Other (specify)	
	△ Video		
Duration	60 minutes	·	
Activity (to be inserted into Moodle and seen by learners)	industry 4.0 is giving manufacturers faster, more flexible, and more efficient corcesses to produce higher-quality goods and lower costs. because of this, the workforce experienced. One of the biggest changes. Research shows that sectors that are highly vulnerable to automation, may need to upskill or shift their focus to a new discipline to stay in the game, therefore to maintain a competitive and innovative economy, it is important that already during vocational education and training the basis is provided to properly face the recent developments in "working world 4.0".		
	To complete this activity:		
	us progress or mak https://www.youtu  2. Watch the followin https://www.youtu  3. Watch the followin creating new job op https://www.youtu  4. Read about the progrand Teachers (20 m and Teachers (20 m for p. 19) (15 minus) https://www.mckire/20of%20Organizuture%20of%20Organizuture%20of%20theof-the-workforce-N for the basis of the future skills needed https://www.mckire/20of%20Organizukure%20of%20Organiz	g video (5 minutes): "Industry 4.0 Jobs"  ube.com/watch?v=e3UojHPoyhQ g video (5 minutes): "Fourth Industrial Revolution: pportunities"  ube.com/watch?v=L89GIBPuRJ8  oject VET 4.0 and check out the eLearning for Students ninutes): http://www.vet-4-0.eu/About.html chapters (p. 1-5 and 18-19, with special focus on Exhibit tes): nsey.com/~/media/McKinsey/Featured%20Insights/Futur eations/Skill%20shift%20Automation%20and%20the%20fex%20workforce/MGI-Skill-Shift-Automation-and-future-May-2018.ashx Exhibit 10, reflect upon your professional profile and the d (p. 19, nsey.com/~/media/McKinsey/Featured%20Insights/Futur eations/Skill%20shift%20Automation%20and%20the%20fex%20workforce/MGI-Skill-Shift-Automation-and-future- eations/Skill%20shift%20Automation%20and%20the%20fex%20workforce/MGI-Skill-Shift-Automation-and-future- eations/Skill%20shift%20Automation%20and%20the%20fex%20workforce/MGI-Skill-Shift-Automation-and-future-	
Assessment		10, reflect upon your professional profile and the future	
•	skills needed (p. 19,	, , , ,	
1		n/~/media/McKinsey/Featured%20Insights/Future%20of	
	%20Organizations/Skill%20shift%20Automation%20and%20the%20future%20of		















	the%20workforce/MGI-Skill-Shift-Automation-and-future-of-the-workforce-May-2018.ashx)
Resources	PC, laptop, tablet, phone, Internet connection
Further reading	https://www.mckinsey.com/~/media/McKinsey/Featured%20Insights/Future%20of %20Organizations/Skill%20shift%20Automation%20and%20the%20future%20of%20 the%20workforce/MGI-Skill-Shift-Automation-and-future-of-the-workforce-May- 2018.ashx)



