Unit 3: Additive manufacturing and 3D printing in Industry 4.0

Subunit 3.3: 3D software for 3D printing

Activity 3: 3D software for 3D printing

Learning Outcomes	Knowledge	Skills	Responsibility and Autonomy
	• Basic knowledge of AM and 3D printing in Industry 4.0: software	• Classify AM/3D printing software in categories according to tasks: modelling, slicing, etc. • Make use of Tinkercad software to design prototypes for 3D printers	• Discuss the 3D design of an object/part considering the object/part application

Type of activity	☒ PDF ☒ PPT ☐ Image/Infographic ☐ Video	☐ Test/Quiz ☐ Game ☐ Other (specify) _____
Duration	300 min	
Activity (to be inserted into Moodle and seen by learners)	In this activity, trainees will learn the main available 3D software for 3D printing. To complete the activity, please follow the next steps: 1. Read "3.3 3D software for 3D printing" chapter of the PDF file "UNIT 3 - Additive manufacturing and 3D printing in Industry 4.0". 2. Accomplish the activity included in the "UNIT 3 - 3.3 - How to 3D Print a Name Tag Using Tinkercad" PPT file.	
Assessment	Self-assessment tutorial to design a 3D name tag using Tinkercad.	
Resources	Computer and Tinkercad software available at https://www.tinkercad.com/	
Further reading	References chapter at the end of the PDF file "UNIT 3 - Additive manufacturing and 3D printing in Industry 4.0"	