

3D printing of plotter part

Duration	Learning phase	Learning content (What should the apprentice learn?)	Learning activities (Apprentice actions to meet the objectives?)	Teacher/trainer activities (What is the role of the teacher/trainer and what is he/she going to do?)	Communication and collaboration forms	Resources, tools, and media (Which tools or media are used and how are they used?)
10 min.	Introduction and Orientation	Learn to: How to assemble Plotter, design and print a plot part	<ul style="list-style-type: none"> • Prepare 3D object • Prepare 3D printer 	<ul style="list-style-type: none"> • Mentoring 	<ul style="list-style-type: none"> • Verbal and guided • Visual 	<ul style="list-style-type: none"> • Manuals • Web • Teams
30 min.	Execution of the task	How to print a plotter part, which is missing How to draw, slice and print the plotter part	<ul style="list-style-type: none"> • Modeling plotter part with software • Slicing and printing plotter part • Integrate 3D printer part in the plotter 	<ul style="list-style-type: none"> • Mentoring 	<ul style="list-style-type: none"> • Visual • Written • Verbal • Video 	<ul style="list-style-type: none"> • 3D printer • 3D design software • Slicing software
30 min.	Assessment /Check	How to check quality of assembled plotter part	<ul style="list-style-type: none"> • Check 3D printing quality • Check assembling of all parts 	<ul style="list-style-type: none"> • Validation of students checks • Provide feedback to students 	<ul style="list-style-type: none"> • Verbal Evaluation • Written Evaluation 	<ul style="list-style-type: none"> • Teams forms • Quality assembling form

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30 min.	End of the lesson	<ul style="list-style-type: none"> Evaluating finished activities and the tasks Talking about ways of improvement the process of building the 3D printed parts 	<ul style="list-style-type: none"> Prepare the documentation of the project Discuss the whole process Identify and discuss new ideas 	<ul style="list-style-type: none"> Guide on the documentation best practices Version history of the documentation document 	<ul style="list-style-type: none"> Written 	Shared document
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