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3D4VET 2017-1-ES01-KA202-03800				
General Profile	General Competences	Professional Qualifications	Units of competence	Formative Modules
<p>The professional profile of the Expert in 3D Designing, Scanning and Printing Systems (ESDEI3D) is decided by his/her general competence, his/her professional, personal and social competences and by the relationship of the National Catalogue of Professional Qualifications included in the grade.</p> <p>The general Competence of this expert consists of developing 3D designing, scanning and printing projects, as well as managing and supervising the design, assembly and maintenance of the 3D printing and scanning systems, from the technical documentation, the regulations and established procedures, guaranteeing its working out, quality, safety and the environmental conservation.</p>		Management and Supervision of Designing Systems of 3D models, in professional environments.	Design and repair 3D models meshes through rapid prototyping.	Design of 3D models.
			Elaborate the technical documents of 3D designing models.	Technical documents in 3D designing.
		Management and Supervision of Scanning systems in 3D models, in professional environments.	Manage and supervise the assembly and maintenance of 3D scanning systems, in industrial, personal and social environments.	Assembly and maintenance of 3D scanning systems.
			Use 3D scanners to obtain the physical model.	3D scanning.
			Reconstruction of 3D models from clinical images (DICOM) or photographs throughout software of inverse engineering.	3D modelling and reverse engineering.
		Management and Supervision of 3D printing systems, in professional environments.	Manage and supervise the assembly and maintenance of 3D Printers, in industrial, personal and social environments.	Assembly and maintenance of 3D printing systems.
			Use 3D printers to obtain final products.	3D printing.
			Technologies and knowledges of materials for 3D printing	3D materials
		Research, Development, Innovation and Management of Designing Projects, Scanning and 3D printing, in professional environments	Investigate, Develop, Plan, Programme and innovate, Control of times, Supply the production, Supervise the start up, as well as the maintenance of 3D scanning and printing system, considering the installation conditions and the manufacturer's recommendations, guaranteeing precaution, safety, environmental and quality conditions.	Research and Management of 3D printing and scanning projects.