

SKILLS CARDS

Based on data compiled into the competence matrix, skill cards for specified skill sets for job profiles will be developed. WPs5-10 inputs will be used to define new and emerging occupational profiles for the overall sector within T3.6.

Sustainable Material Specialist

Sustainable Material Specialist focus on developing and implementing eco-friendly materials in the plastics sector. They work on creating alternatives to conventional plastics, such as biodegradable or recyclable polymers, and assess the environmental impact of different materials.

<ESCO Mapping> - <link to ESCO (European Skills, Competences, Qualifications and Occupations)>

ID	NAME	Concept URI
2113.1.2	Chemical application specialists	http://data.europa.eu/esco/occupation/1b123879-8f0d-4793-8069-3dc21a08921a
2133.6	Environmental programme coordinators	http://data.europa.eu/esco/occupation/59883630-45f9-40e7-9732-9e5ff9758d2b
2141	Industrial and production engineers	http://data.europa.eu/esco/isco/C2141

Context

EQF Levels	6
Departments	Quality Assurance R&D (Research and Development) HSE (Health, Safety and Environmental)
Profile Sectors	Materials design, processing and development in the plastic sector

Green Competences

Name	Type	Description	Level	ESCO
Environmental impact of digital technologies and their use.	knowledge	- Knowledge of local and international regulations, standards, and compliance requirements relevant to the plastics industry, ensuring all products meet safety and environmental standards.	3	http://data.europa.eu/esco/skill/426ceaba-6867-481c-bb6b-aee3933da7d2

Funded by the European Union. Views and opinions expressed are however those of the author(s) only and do not necessarily reflect those of the European Union or the European Education and Culture Executive Agency (EACEA). Neither the European Union nor EACEA can be held responsible for them.

Regulatory and standards compliance	knowledge	- Knowledge of local and international regulations, standards, and compliance requirements relevant to the plastics industry, ensuring all products meet safety and environmental standards.	3	http://data.europa.eu/esco/skill/089ee650-297e-4716-87d1-440743b70a0d
Eco-design	knowledge	- Ability to design products with a focus on minimizing environmental impact, using sustainable materials, reducing waste, and optimizing the entire product lifecycle for eco-friendliness. Involve the entire value chain	3	http://data.europa.eu/esco/skill/c214d86e-fbb8-45c0-87d4-f2cefc954052

Digital Competences

Name	Type	Description	Level	ESCO
Design optimization	Knowledge	- Proficiency in assessing a product's environmental impact over its entire lifecycle, from raw materials through production, use, and disposal, to promote sustainable choices.	3	http://data.europa.eu/esco/skill/a2b5dcf3-5b6a-453d-876c-cff540c0faf1
Life cycle assessment competencies	Knowledge	- The management of the life-cycle of a product from the development stages to the market entry and market removal.	2	http://data.europa.eu/esco/skill/21e0cad8-4eef-42be-b18b-0f8e37f0dbd0
Product design	Knowledge	- Core skills in designing plastic products that meet functional, aesthetic, and sustainability requirements, from conceptualization to final production.	3	http://data.europa.eu/esco/skill/883eab8c-d8a6-4e8b-9b11-7d9001e172ab
End-of-life management	Knowledge	- Competence in managing products' end-of-life through recycling, disposal, or repurposing to reduce environmental impact.	2	
Track and trace systems	Knowledge	- Skills in using digital tracking systems to monitor materials, products in the value chain.	2	http://data.europa.eu/esco/skill/f929c89e-c363-4132-a918-e021d57b307c
Computer-aided design (CAD) and	Skill	- Proficiency in computer-aided design (CAD) and computer-aided manufacturing (CAM) software to design and produce plastic products with precision.	2	http://data.europa.eu/esco/skill/S5.6.3 http://data.europa.eu/esco/skill/7a757fa5-9a

computer-aided manufacturing (CAM) software knowledge				6f-43ab-9e66-f8f4dba1ffcb
---	--	--	--	---

SSbD (Safe and Sustainable by Design Chemicals)

ID	Name	Type	Description	Level	ESCO
	Safe and sustainable by design knowledge	knowledge	- Knowledge of safe and sustainable design practices to ensure products are environmentally friendly and safe for both users and manufacturers.	2	

Transversal Competences

ID	Name	Type	Description/Context	Level	ESCO
	Transversal engineering/economic competencies	Knowledge	- Competencies that bridge technical and economic perspectives, supporting cost-effective, sustainable engineering solutions.	2	URI

Sector Specific

ID	Name	Type	Description/Context	Level	ESCO
	New materials knowledge	knowledge	- Ability to identify, assess, and apply new and innovative materials, including polymer blends and composites, to enhance product performance and sustainability.	3	URI

Funded by the European Union. Views and opinions expressed are however those of the author(s) only and do not necessarily reflect those of the European Union or the European Education and Culture Executive Agency (EACEA). Neither the European Union nor EACEA can be held responsible for them.

Other

Name	Type	Description	Level	ESCO
Communication Skills	Skill	- Strong verbal and written communication skills to effectively share ideas, updates, and insights with team members and stakeholders.	2	http://data.europa.eu/esco/skill/T4