



# Safe & Sustainable by Design Products manager

Safe & Sustainable by Design Products managers monitor and apply incoming EU and national regulations applicable to the design, production and marketing of chemical substances in order to ensure their safe and sustainable production and use. They also communicate with both actors in the value chain and external partners about the products, their safe use and their sustainability footprint.

ID	NAME	Concept URI
2619.12	Regulatory affairs managers	http://data.europa.eu/esco/occupation/779d13be- 60b4-48f3-a339-fe483be96c7f
1213.8	Sustainability manager	http://data.europa.eu/esco/occupation/2cf2b905- 3308-4b5d-8e8d-633fc7a3f3ce
1213.7	Health safety and environmental manager	http://data.europa.eu/esco/occupation/57e87533- e523-4ee5-bf21-94a39fcc279b

#### **Context**

EQF Levels	6-7
Departments	Regulatory affairs
	Product Stewardship/Quality Assurance
	HSE (Health, Safety and Environmental)
Profile Sectors	Materials design, production and marketing in the petrochemical sector

#### **Green Competences**

Name	Type	Description	Level	ESCO
Environmental impact of	Skill	- Knowledge of local and international	2	http://data.europa.eu/esco/skill/426ceaba- 6867-481c-bb6b-aee3933da7d2
digital technologies and their use.		regulations, standards, and compliance requirements relevant		
		to the petrochemicals industry, ensuring all		





		products meet safety		
		and environmental		
		standards.		
Regulatory	Skill	- Knowledge of local and	2	http://data.europa.eu/esco/skill/089ee650- 297e-4716-87d1-440743b70a0d
and standards		international		<u> </u>
compliance		regulations, standards,		
		and compliance		
		requirements relevant		
		to the petrochemicals		
		industry, ensuring all		
		products meet safety		
		and environmental		
		standards.		
Eco-design	Skill	- Ability to design	2	http://data.europa.eu/esco/skill/c214d86e-fbb8-45c0-87d4-f2cefc954057
		products with a focus		1DD0-43CU-67U4-12Ce1C934U37
		on minimizing		
		environmental impact,		
		using sustainable		
		materials, reducing		
		waste, and optimizing		
		the entire product		
		lifecycle for eco-		
		friendliness. Involve the		
		entire value chain		

# **Digital Competences**

Name	Type	Description	Level	ESCO
Design optimisation	Knowledge	- Proficiency in assessing a product's environmental impact over its entire lifecycle, from raw materials through production, use, and disposal, to promote	3	http://data.europa.eu/esco/skill/a2b5dcf3-5b6a-453d-876c-cff540c0faf1





		sustainable		
		choices.		
Life cycle	Knowledge	- The management	2	http://data.europa.eu/esco/skill/21e0cad8-
assessment	Kilowieage	of the life-cycle of		4eef-42be-b18b-0f8e37f0dbd0
		•		
competencies		a product from the development		
		·		
		S		
		market entry and		
D	17	market removal.	0	http://dete.com.go.go.go.go.go.go.go.go.go.go.go.go.go.
Product	Knowledge	- Core skills in	3	http://data.europa.eu/esco/skill/883eab8c- d8a6-4e8b-9b11-7d9001e172ab
design		designing plastic		
		products that		
		meet functional,		
		aesthetic, and		
		sustainability		
		requirements,		
		from		
		conceptualization		
		to final		
		production.		
End-of-life	Knowledge	- Competence in	2	N/A
management		managing		
		products' end-of-		
		life through		
		recycling,		
		disposal, or		
		repurposing to		
		reduce		
		environmental		
		impact.		
Track and	Knowledge	- Skills in using	2	http://data.europa.eu/esco/skill/f929c89e-
trace systems		digital tracking		<u>c363-4132-a918-e021d57b307c</u>
		systems to		
		monitor materials,		
		products in the		
		value chain.		
Computer-	Skill	- Proficiency in	2	http://data.europa.eu/esco/skill/S5.6.3
aided design		computer-aided		http://data.europa.eu/esco/skill/7a757fa5- 9a6f-43ab-9e66-f8f4dba1ffcb
(CAD) and		design (CAD) and		SAST TOUR SOOD TOTALDATTION
computer-		computer-aided		





aided	manufacturing
manufacturing	(CAM) software to
(CAM)	design and
software	produce plastic
knowledge	products with
	precision.

# SSbD (Safe and Sustainable by Design Chemicals

Name	Type	Description	Level	ESCO
Safe and sustainable	Knowledge	<ul> <li>Knowledge of safe and sustainable design practices to ensure products are environmentally</li> </ul>	2	N/A
by design knowledge		friendly and safe for both users and manufacturers.		

### **Transversal Competences**

Name	Type	Description/Context		ESCO
Transversal engineering/ economic competencies	Knowledge	<ul> <li>Competencies that bridge technical and economic perspectives, supporting cost- effective, sustainable engineering solutions.</li> </ul>	2	N/A

# **Sector Specific**

Name	Type	Description/Context		ESCO
New	Knowledge	- Ability to identify, assess, and apply new and	2	N/A
materials		innovative materials, including polymer blends and		
knowledge		composites, to enhance product performance and		
		sustainability.		

### Other

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





members and	
stakeholders.	