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Alliance for Batteries Technology, Training and Skills

2019-2023

Battery Recycling Technician



Co-funded by the Erasmus+ Programme of the European Union





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Battery Recycling Technician

A battery recycling technician is responsible for the collection, transportation, and processing of used batteries in a recycling facility. They work with a team of engineers and scientists to safely and efficiently recover valuable materials from used batteries. They are responsible for the collection, transportation, and processing of used batteries, ensuring that the recycling process meets the required safety and environmental standards.

ESCO Occupations - ESCO - Occupations - European Commission (europa.eu)

ID	NAME	Concept URI
C8	Plant and machine operators and assemblers	http://data.europa.eu/esco/isco/C8
9612.1	Recycling Worker	http://data.europa.eu/esco/occupation/4ed9ce62-75d4-4b05- 80d4-e86528fecdcd

Context

Minimum EQF	3/4/5
Value Chain	Second Life
	Recycling
Departments	Quality
	Recycling
Specialisations	Automation / Process Operator
	Machine Operator
	Operator
	Recycling Technician



Cross costorel	C		Compatones
Cross-sectoral	5	pecific	competence

Name	Туре	Description/Context	Level	ESCO
	(S/K)			
Equipment	S -	- Use of hand tools, electric tools and machines	Practitioner	Equipment
and Tools	-	Control the equipment used in production		and Tools Handling
Handling	-	responsible for some routine maintenance of the machines,		
		replacement and their repair		
Inspect	S -	Makes visual quality checks	Practitioner	inspect
Quality of Product /	-	 problem identification and minor troubleshooting 		quality of product
Sampling	-	Comply with all company policies, in particular those relating		
		to safety, quality and performance		
Analysis	K -	Conducting root cause analysis on various issues	Expert	analysis
Methods	-	issue permits according to routines		methods
	-	Analyse the situation and take proper actions when facing		
		failures and deviations affecting the process		
	-	- Analysis and estimation of workload		
Hazardous	K -	Handling hazardous waste, including identification, labeling,	Expert	handling of
Materials		storage, and management in accordance with all regulations		dangerous goods
		and internal safety requirements		
	-	Controls the equipment and process materials used		
	-	- Assure safe operations		
	-	- Take proper actions when handling hazardous material		
Material	S -	- unload trucks, stage equipment for processing	Practitioner	operate
Operation & Handling	-	- Document and monitor material handling		material handling equipment
Risk	K -	- Assure safe operations. Daily safety improvement work to	Expert	risk
Mittigation		reach in safety for example when doing repairs or		management
		inspections of equipment		
	-	- Perform risk analysis		
	-	- Actively partake in Safety, Quality, Environment and		
		Improvement work		
Operate	S -	Operates and drives the machines	Expert	
Machines	-	Maintenance procedures		work safely with
	-	Control the equipment and process materials used in		machines
		recycling process		
Production	K ·	Control the equipment and process materials used in	Practitioner	production
Processes		production		process
Equipment	S -	Perform visual inspections and equipment maintenance	Practitioner	ensure
Maintenance	-	- Responsible for some routine maintenance of the machines		equipment maintenance
		- Complying with all company policies, in particular those	Awareness	safety
Safety	K -			

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- Assure safe conditions through Lock Out Tag Out Try Out
according to routines
- Partake in Safety, Quality, Environment and Improvement
work
- Daily safety improvement work to reach world class in safety

Name	Туре (S/K)	Description/Context	Level	ESCO
Battery Material	К	 Active and raw material processing and refinement 	Practitioner	
Battery chemistry	К	 Understand the chemical processes within the cells and chemical properties of battery cell components such as cathodes, anodes and electrolyte 	Awareness	battery chemistry
Battery Industry	К	- Understands the importance of battery industry and overall value chain	Awareness	
Battery components	К	 Understands the different battery cells components and their functions within the cells, such as anode, cathode, electrolyte, separator Relevant battery materials 	Awareness	
Battery Recycling	К	 Handling the materials throughout the recycling process Handling waste batteries, and Electronics for recycling including identification, labeling, sorting, and storage 	Practitioner	develop recycling programmes

Sector Specific Competence

Soft Competence

Name	Туре	Description/Context	Level	ESCO
	(S/K)			
Communication	К	 Support managers and colleagues in creating a good working environment through inclusion, motivation, engagement, creativity, good communication and high ambitions Report failures and deviations Collaborate cross teams to ensure process improvements 	Awareness	communication
problem solving & troubleshoot	S	 problem identification and minor troubleshooting reporting any problems to supervisor 	Awareness	problem solving & troubleshoot



Name	Type (S/K)	Description/Context	Level	ESCO
English	К	 Follow written and verbal instructions in a multicultural/international environment 	Awareness	English
Reporting	S	 Report failures and deviations on equipment as well as conducting root cause analysis on various issues. 	Practitioner	follow reporting procedures
Written	S	 Perform risk analysis Report failures and deviations on equipment orally or in written form 	Practitioner	written skills
Health and Safety Standards	К	 Assure safe operations. Daily safety improvement work to reach world class in safety for example when doing repairs or inspections of equipment Perform risk analysis Actively partake in Safety, Quality, Environment and Improvement work A safe operation production line is a priority and will therefore be a crucial part of any task Conduct sampling to ensure material is not contaminated 	Expert	health and safety in the workplace
Documentation	S	 Document appropriate operation in logs Read technical drawings 	Practitioner	use technical documentation; observe documents

General Transversal Competence

Academic Competence (can be taken from University programme)

Name	Type (S/K)	Description/Context	Level	ESCO
Electrical Engineering	К	 Understand electrical engineering, a field of engineering that deals with the study and application of electricity, electronics, and electromagnetism. Mechatronics and automation 	Practitioner	electrical engineering
Chemical Engineering	К	 Basics of organic and anorganic chemistry Basics of chemical technology 	Practitioner	Chemistry

