



Alliance for Batteries Technology, Training and Skills

2019-2023

Battery Recycling Technician



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



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 \(europa.eu\)](http://data.europa.eu/esco/)

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-e86528fecdc

Context

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

Cross-sectoral Specific Competence

Name	Type (S/K)	Description/Context	Level	ESCO
Equipment and Tools Handling	S	<ul style="list-style-type: none"> - Use of hand tools, electric tools and machines - Control the equipment used in production - responsible for some routine maintenance of the machines 	Practitioner	Equipment and Tools Handling
Inspect Quality of Product / Sampling	S	<ul style="list-style-type: none"> - Makes visual quality checks - problem identification and minor troubleshooting - Comply with all company policies, in particular those relating to safety, quality and performance 	Practitioner	inspect quality of product
Analysis Methods	K	<ul style="list-style-type: none"> - Conducting root cause analysis on various issues issue permits according to routines - Analyse the situation and take proper actions when facing failures and deviations affecting the process - Analysis and estimation of workload 	Expert	analysis methods
Hazardous Materials	K	<ul style="list-style-type: none"> - Handling hazardous waste, including identification, labeling, storage, and management in accordance with all regulations and internal safety requirements - Controls the equipment and process materials used - Assure safe operations - Take proper actions when handling hazardous material 	Expert	handling of dangerous goods
Material Operation & Handling	S	<ul style="list-style-type: none"> - unload trucks, stage equipment for processing 	Practitioner	operate material handling equipment
Risk Mitigation	K	<ul style="list-style-type: none"> - Assure safe operations. Daily safety improvement work to reach in safety for example when doing repairs or inspections of equipment - Perform risk analysis - Actively partake in Safety, Quality, Environment and Improvement work 	Expert	risk management
Operate Machines	S	<ul style="list-style-type: none"> - Operates and drives the machines - Maintenance procedures - Control the equipment and process materials used in recycling process 	Expert	work safely with machines
Production Processes	K	<ul style="list-style-type: none"> - Control the equipment and process materials used in production 	Practitioner	production process
Equipment Maintenance	S	<ul style="list-style-type: none"> - Perform visual inspections and equipment maintenance - Responsible for some routine maintenance of the machines 	Practitioner	ensure equipment maintenance
Safety Procedures	K	<ul style="list-style-type: none"> - Complying with all company policies, in particular those relating to safety, quality and performance - Assure safe conditions through Lock Out Tag Out Try Out 	Awareness	safety engineering

		<ul style="list-style-type: none"> according to routines - Partake in Safety, Quality, Environment and Improvement work - Daily safety improvement work to reach world class in safety 		
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Sector Specific Competence

Name	Type (S/K)	Description/Context	Level	ESCO
Battery Material	K	- Active and raw material processing and refinement	Practitioner	
Battery chemistry	K	- 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	K	- Understands the importance of battery industry and overall value chain	Awareness	
Battery components	K	- Understands the different battery cells components and their functions within the cells, such as anode, cathode, electrolyte, separator	Awareness	
Battery Recycling	K	<ul style="list-style-type: none"> - Handling the materials throughout the recycling process - Handling waste batteries, and Electronics for recycling including identification, labeling, sorting, and storage 	Practitioner	develop recycling programmes

Soft Competence

Name	Type (S/K)	Description/Context	Level	ESCO
Communication	K	<ul style="list-style-type: none"> - Support managers and colleagues in creating a good working environment through inclusion, motivation, engagement, creativity, good communication and high ambitions - Report failures and deviations 	Awareness	communication
problem solving & troubleshoot	S	<ul style="list-style-type: none"> - problem identification and minor troubleshooting - reporting any problems to supervisor 	Awareness	problem solving & troubleshoot

General Transversal Competence

Name	Type	Description/Context	Level	ESCO
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	(S/K)			
English	K	- Follow written and verbal instructions in a multicultural/international environment	Awareness or practitioner depending on the environment	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	K	- 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		use technical documentation; observe documents

Academic Competence (can be taken from University programme)

Name	Type (S/K)	Description/Context	Level	ESCO
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