



Alliance for Batteries Technology, Training and Skills

2019-2023

Cell Assembly Technician - Downstream

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Cell Assembly Technician - Downstream

A battery cell assembly technician is responsible for assembling battery cells in a manufacturing facility. They work with a team of engineers and scientists to assemble, test, and package battery cells for various applications such as electric vehicles, consumer electronics, and grid storage. They are responsible for assembling the various components of the battery cell, such as the electrodes, separator, and electrolyte. They also need to ensure that the assembled cells meet the required quality standards and performance specifications.

ESCO Occupations - [ESCO - Occupations - European Commission \(europa.eu\)](http://europa.eu)

ID	NAME	Concept URI
8212.3.1	Battery assembler	http://data.europa.eu/esco/occupation/718bba63-75b7-4b3a-9912-e201b729fe4c
8212.3.2	electromechanical equipment assembler	http://data.europa.eu/esco/occupation/d44c5eb0-fc6c-4f4a-9850-f2f29aaac505
8212.3	electronic equipment assembler	http://data.europa.eu/esco/occupation/6565dc02-14e4-4819-b99c-44c352000f43
8212.2	electrical equipment assembler	http://data.europa.eu/esco/occupation/3e524c3e-3ee8-47dd-8463-2c2a41b548bf

Context

Minimum EQF	4/5/6
Value Chain	Components and Cells Manufacturing Modules and Packs
Departments	Production and Maintenance Quality
Specialisations	Cell Assembly Technician Battery Assembler Battery Stacker Quality Planner Battery Assembly Technical Assembly Worker Electrical and Electronic Equipment Assemblers Electromechanical Equipment Assemblers

Cross-sectoral Specific Competence

Name	Type (S/K)	Description/Context	Level	ESCO
Equipment and Tools Handling	S	<ul style="list-style-type: none"> - Performing a combination of diverse tasks to assemble electronic components, subassemblies or systems - Use of hand tools, electric tools and machines, their set up and maintenance - Operating production tools and equipment 	Expert	
Production Processes	K	<ul style="list-style-type: none"> - Responsible for assembling lithium battery cells. This includes a mix of manual and automated production processes - Performing a combination of diverse tasks to assemble electronic components, subassemblies or systems - Planning and execution of measures for process monitoring and process control 	Practitioner	production process
Inspect Quality of Product / Sampling	S	<ul style="list-style-type: none"> - Plans and executes the quality assurance of battery assembly, initiations and maintenance - Quality checks as specified - Sample part inspections of in house parts - Monitor machine outputs for quality 	Practitioner	inspect quality of product
Operate Machines	S	<ul style="list-style-type: none"> - Handling the company's tools, equipment, machines and materials with due care and with the respect to safety protocols 	Practitioner	work safely with machines
Parts Fitting	S	<ul style="list-style-type: none"> - Performing a combination of diverse tasks to assemble electronic components, subassemblies or systems - Positioning and fitting parts in a specific relationship to each other 	Practitioner	
Monitoring (Machine/System Operations)	S	<ul style="list-style-type: none"> - Planning and execution of measures for process monitoring and process control. 	Practitioner	monitor machine operations
Fasten Components	S	<ul style="list-style-type: none"> - Fasten components together according to blueprints and technical plans in order to create subassemblies or finished products. 	Practitioner	Fasten components

Sector Specific Competence

Name	Type (S/K)	Description/Context	Level	ESCO
Cell Assembly Methods	S	<ul style="list-style-type: none"> - assembling cells per the standard operating procedures - responsible for assembling lithium battery cells - manual and automated production processes. - include inspection points, attention to detail is required 	Practitioner	Assemble Automotive batteries

		- welding and assembling the battery components such as electronics parts, wiring, and casing around the cells		
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Soft Competence

Name	Type (S/K)	Description/Context	Level	ESCO
Teamwork	K	- Good communication and ability to work independently and in a team	Practitioner	

General Transversal Competence

Name	Type (S/K)	Description/Context	Level	ESCO
Documentation	S	<ul style="list-style-type: none"> - Operating production tools and equipment per training and documentation - Following production patterns and sample patterns as well as verbal instructions for each task - Reading technical diagrams 	Awareness	use technical documentation; observe documents
English	K	<ul style="list-style-type: none"> - Able to read and write in English - Ability to work and communicate in an international environment 	Practitioner	English
Health and Safety Standards	K	<ul style="list-style-type: none"> - Complying with health and safety protocol - Comply with safety requirements including PPE; extra needs during pandemic to keep employees healthy 	Practitioner	health and safety in the workplace

Academic Competence (can be taken from University programme)

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