



*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	<a href="http://data.europa.eu/esco/occupation/718bba63-75b7-4b3a-9912-e201b729fe4c">http://data.europa.eu/esco/occupation/718bba63-75b7-4b3a-9912-e201b729fe4c</a>
8212.3.2	electromechanical equipment assembler	<a href="http://data.europa.eu/esco/occupation/d44c5eb0-fc6c-4f4a-9850-f2f29aaac505">http://data.europa.eu/esco/occupation/d44c5eb0-fc6c-4f4a-9850-f2f29aaac505</a>
8212.3	electronic equipment assembler	<a href="http://data.europa.eu/esco/occupation/6565dc02-14e4-4819-b99c-44c352000f43">http://data.europa.eu/esco/occupation/6565dc02-14e4-4819-b99c-44c352000f43</a>
8212.2	electrical equipment assembler	<a href="http://data.europa.eu/esco/occupation/3e524c3e-3ee8-47dd-8463-2c2a41b548bf">http://data.europa.eu/esco/occupation/3e524c3e-3ee8-47dd-8463-2c2a41b548bf</a>

### Context

<b>Minimum EQF</b>	4/5/6
<b>Value Chain</b>	Components and Cells Manufacturing Modules and Packs
<b>Departments</b>	Production and Maintenance Quality
<b>Specialisations</b>	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"> <li>- Performing a combination of diverse tasks to assemble electronic components, subassemblies or systems</li> <li>- Use of hand tools, electric tools and machines</li> <li>- Operating production tools and equipment</li> </ul>	Expert	
Production Processes	K	<ul style="list-style-type: none"> <li>- Responsible for assembling lithium battery cells. This includes a mix of manual and automated production processes</li> <li>- Performing a combination of diverse tasks to assemble electronic components, subassemblies or systems</li> <li>- Planning and execution of measures for process monitoring and process control</li> </ul>	Practitioner	production process
Inspect Quality of Product / Sampling	S	<ul style="list-style-type: none"> <li>- Plans and executes the quality assurance of battery assembly, initiations and maintenance</li> <li>- Quality checks as specified</li> <li>- Sample part inspections of in house parts</li> </ul>	Practitioner	inspect quality of product
Operate Machines	S	<ul style="list-style-type: none"> <li>- Handling the company's tools, equipment, machines and materials with due care</li> </ul>	Practitioner	work safely with machines
Parts Fitting	S	<ul style="list-style-type: none"> <li>- Performing a combination of diverse tasks to assemble electronic components, subassemblies or systems</li> <li>- Positioning and fitting parts in a specific relationship to each other</li> </ul>	Practitioner	
Monitoring (Machine/System Operations)	S	<ul style="list-style-type: none"> <li>- Planning and execution of measures for process monitoring and process control.</li> </ul>	Practitioner	monitor machine operations
Fasten Components	S	<ul style="list-style-type: none"> <li>- Fasten components together according to blueprints and technical plans in order to create subassemblies or finished products.</li> </ul>	Practitioner	Fasten components

## Sector Specific Competence

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

## 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	- Operating production tools and equipment per training and documentation - Following production patterns and sample patterns as well as verbal instructions for each task	Awareness	use technical documentation; observe documents
English	K	- Able to read and write in English - Ability to work and communicate in an international environment	Practitioner	English
Health and Safety Standards	K	- 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
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## Academic Competence (can be taken from University programme)

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