



Alliance for Batteries Technology, Training and Skills

2019-2023

Battery Module Assembly Technician

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Battery Module Assembly Technician

A battery module assembly technician is responsible for assembling battery modules in a manufacturing facility. They work with a team of engineers and scientists to assemble, test, and package battery modules for various applications such as electric vehicles, consumer electronics, and grid storage. They are responsible for assembling the various components of the battery module, such as the battery cells, wiring, and protective housing. They also need to ensure that the assembled modules 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	Cells and Components Manufacturing Modules and Packs Battery Integration
Departments	Production and Maintenance Quality
Specialisations	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 - Operating production tools and equipment set up, monitoring and operation 	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 - Report deviations in assembly process 	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 	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 the 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
Assemble Batteries	S	<ul style="list-style-type: none"> - ensure that the battery packs are assembled so that they can be built into the vehicles at a later stage - assemble the battery packs by filling the battery tray with modules 	Practitioner	assemble batteries

		<ul style="list-style-type: none"> - connect each module according to the schematics and ensure a balanced battery pack - assembling per the standard operating procedures - knowledge of battery components 		
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Soft Competence

Name	Type (S/K)	Description/Context	Level	ESCO
Teamwork	K	<ul style="list-style-type: none"> - Good communication and ability to work independently and in a team 	Practitioner	Teamwork principles

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 	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
Electrical Engineering	K	<ul style="list-style-type: none"> - 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	K	<ul style="list-style-type: none"> - Basics of organic and anorganic chemistry - Basics of chemical technology 	Practitioner	Chemistry