

Alliance for **B**atteries **T**echnology, **T**raining and **S**kills 2019-2023

Machine Operator in Battery Industry



Machine Operator in Battery Industry

A battery machine operator is responsible for the operation of equipment used in the production of batteries. They work in battery manufacturing plants and are responsible for ensuring that the equipment is operating efficiently and effectively to produce high-quality batteries. They need to have a strong understanding of mechanical, electrical and control systems, as well as experience with operating and maintaining manufacturing equipment.

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

ID	NAME	Concept URI
C8	Plant and machine	http://data.europa.eu/esco/isco/C8
	operators and assemblers	

Context

Minimum EQF	3/4/5
Value Chain	Raw Materials and Processing
	Cell and Components Manufacturing
	Modules and Packs
	Battery Integration
Departments	Production and Maintenance
	Logistics
	Quality
	RnD
Specialisations	Laboratory and validation laboratory operators
	Production Assembly Operator
	Automation / Process Operator
	Process Operator - Upstream
	Machine Operator
	Operator

Cross-sectoral Specific Competence

Name	Type (S/K)	Description/Context	Level	ESCO
Equipment and Tools	S	Use of hand tools, electric tools and machinesControl the equipment used in production	Practitioner	Equipment and Tools Handling

Handling		- use machines to fabricate components		
		- responsible for some routine maintenance of the machines		
Inspect	S	- Makes visual quality checks	Practitioner	inspect quality o
Quality of Product /		- problem identification and minor troubleshooting		product
Sampling		- Conduct sampling to ensure material is not contaminated		
		- Comply with all company policies, in particular those relating		
		to safety, quality and performance		
Analysis	K	- Conducting root cause analysis on various issues issue	Expert	analysis
Methods		permits according to routines		methods
		- Analyse the situation and take proper actions when facing		
		failures and deviations affecting the production		
		- Analysis and estimation of workload		
Hazardous	K	- Controls the equipment and process materials used in	Expert	handling of
Materials		production		dangerous goods
		- Assure safe operations		
		- Take proper actions when handling hazardous material		
Material	S	- Handling the materials	Practitioner	operate
Operation & Handling				material handling
rianumig				equipment
Risk	K	- Assure safe operations. Daily safety improvement work to	Expert	risk
Management		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
		production		
Production	K	Control the equipment and process materials used in	Practitioner	production
Processes		production		process
		Responsible for putting together many different parts		
Equipment	S	- Perform visual inspections and equipment maintenance	Practitioner	ensure
Maintenance	-	- Responsible for some routine maintenance of the machines		equipment
				maintenance
Safety Procedures	K	- Complying with all company policies, in particular those	Awareness	safety engineering
riocedules		relating to safety, quality and performance		o o
		- 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		

Parts Fitting	S	- Positioning and fitting parts in a specific relationship to each	Practitioner	
		other		
		- Bonding, clamping, screwing, joining, soldering or other		
		similar activities in order to connect and secure assembled		
		elements		

Sector Specific Competence

Name	Type (S/K)	Description/Context	Level	ESCO
Battery	К	- Understands the importance of	Awareness	
Industry		battery industry and overall value chain		

Soft Competence

Name	Type	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 	Awareness	communication
problem & troubleshoot	S	 problem identification and minor troubleshooting reporting any problems to supervisor 	Awareness	problem solving & troubleshoot

General Transversal Competence

Name	Туре	Description/Context	Level	ESCO
	(S/K)			
English	К	- 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	К	- Assure safe operations. Daily safety improvement work to reach world class in safety for example when doing repairs or inspections of equipment	Expert	health and safety in the workplace

- 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

Academic Competence (can be taken from University programme)

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