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Battery manufacturing - future job roles




BATTERY MANUFACTURING TECHNICIAN




A battery manufacturing technician is responsible for the production of batteries in a manufacturing facility.




They work with a team of engineers and scientists to assemble, test, and package batteries for various applications such as electric vehicles, consumer electronics, and grid storage.




They are responsible for the assembly, testing and packaging of the battery cells, packs, and systems, ensuring that they meet the required quality standards and performance specifications.




PRODUCTION & MANUFACTURING ENGINEER



A battery manufacturing and production engineer is responsible for the design, development and execution of the manufacturing processes for batteries.



They work with a team of engineers and scientists to create efficient and cost-effective manufacturing methods for electric vehicles, consumer electronics, and other applications.



They are responsible for overseeing the production of battery cells, packs, and systems, ensuring that they meet the required quality standards and performance specifications.

Battery Manufacturing Technician

- production of batteries
- assemble, test, and package batteries
- maintain quality standards and performance specifications

UK Battery manufacturing technician standard ST1338 (2023)

- Option 1. Electrode technician
- Option 2. Cell assembly technician
- Option 3. Ageing, formation and testing technician
- Option 4. Module and pack technician

NO EU ESCO standard

Battery Manufacturing Technician

Cross-sectoral Specific Competences

- Quality control and assurance, testing, product improvement
- Automated production and process operation
- Maintenance of production and equipment
- Health and safety, risk mitigation and safe handling

Sector Specific Competences

- Battery assembly methods, battery components and pure materials
- Chemical processes, battery degradation mechanisms
- Battery testing, quality and completion, battery formation
- Battery management systems

Behaviours and attitudes: Environmentally conscious, adaptable, driven, committed to quality

Production and Manufacturing Engineer

- Design, development and execution of manufacturing processes
- Cost effective methods for specific applications
- Production supervision
- Compliance with internal targets

UK Manufacturing engineer standard ST0025 (2025)

EU ESCO occupational standards:

Manufacturing Engineer

Production Engineer

Production and Manufacturing Engineer

Cross-sectoral Specific Competences

- **Project management, productivity optimisation, Kaizen**
- **Production data analysis, operational testing, lean manufacturing**
- **Design of manufacturing operations, continuous improvement**
- **Manufacturing design, cost optimisation and feasibility**
- **Process evaluation to maximise productivity**
- **Equipment and operations modifications, plan layout and logistics**
- **Project and process documentation**

Sector Specific Competences

- **Knowledge of battery technology and manufacturing steps**
- **Health and safety in electro-chemical environment**

Behaviours and attitudes: Detail driven, adaptable, collaborative



ELECTRIFICATION SKILLS NETWORK

Thank you for your time today!