

Battery School: Everything you didn't know about batteries

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PENN ENGINEERED SOLUTIONS LTD





ELECTRIFICATION SKILLS NETWORK

Paul Whiteside – ESN Head of Programme

Who are the Electrification Skills Network?



'We are a neutral initiative supporting workforce readiness for electrification, via a Framework for Electrification and informed advice, support and guidance.'



How we do this

Connecting

We connect employers, awarding organisations and skills providers via an Electrification Skills Framework

Offering a neutral and informed voice

We offer a neutral and informed voice for the Electrification Skills community including policymakers on the local and national level



Showcasing

We showcase initiatives and support the development of electrification courses and qualifications

Sharing and supporting via our communities

We share national and international best practices and subject expertise to support skills provision in the UK

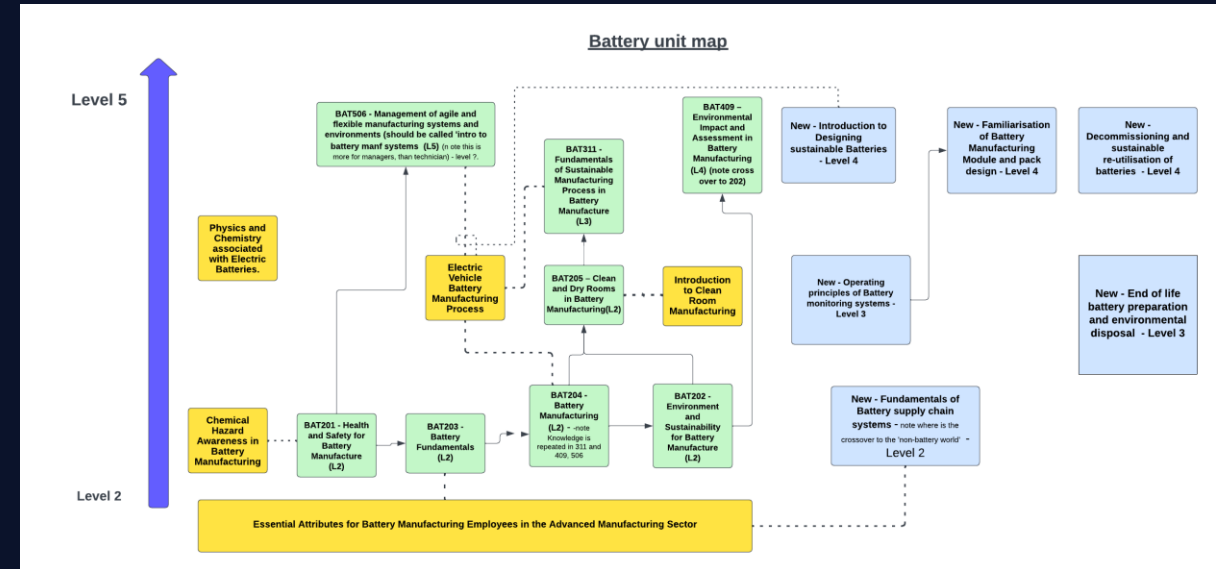
Providing insight

We use Workforce Foresighting data and market intelligence to identify electrification skills gaps



Defining a skills framework for electrification

- Signposting to current solutions, or highlighting gaps
- Supporting employers in the understanding of current and future skills needs
- Supporting skills providers by giving them a potential delivery structure
- Supporting accrediting bodies by endorsement of their solutions
- Acting as a neutral body to facilitate collaboration

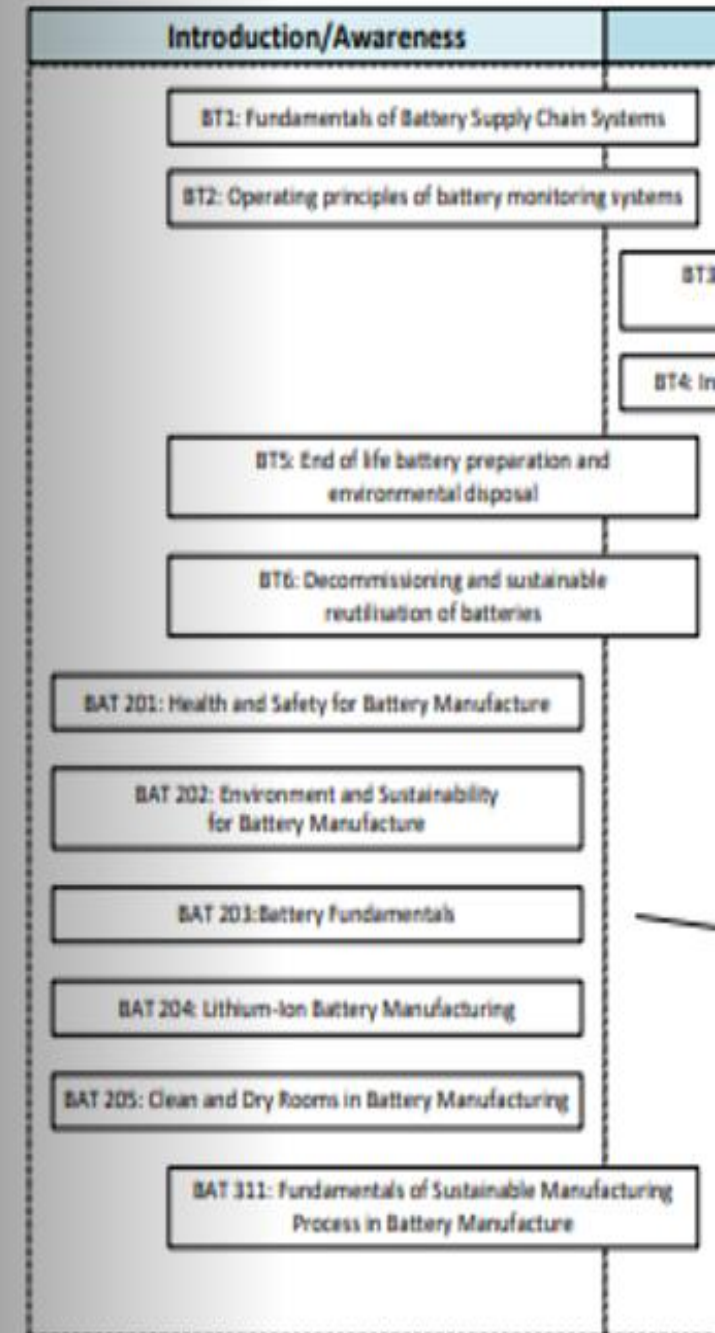


The ESN Framework Model

- Four Levels (Introduction to Expert)
 - *Common Sets of Skills*
 - Signposting to training/qualifications
 - Standardised approach to listing/linkage
- Review and feedback (Spring - Autumn 2024)
 - Online Framework Tool (Autumn - Winter 2024)
 - **Launch (Summer 2025)**



COMMON SETS OF SKILLS FOR
TRAINING AND QUALIFICATIONS
(SPECIFICATIONS/SIGNPOSTING AVAILABLE)



The ESN Framework Demo



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Search the Framework

Here you can search and filter the Common Sets of Skills (CSS) in the Framework. You can also view the [entire framework](#).

If you want to know more about how to use the framework, [click here](#).

CSS Search:

Filter by Area:

Filter by Level:

Filter by Focus:

[Reset Filters](#)

« 1 2 3 »

Battery Manufacturing

Battery Fundamentals

Introduction

Theory

Battery Manufacturing

Familiarisation of battery manufacturing module and pack design

Technical

Theory and Practical

Battery Manufacturing

Operating principles of battery monitoring systems

Introduction

Theory

How to use the framework

The Framework's core is the Common Sets of Skills (CSS), which are positioned across four levels for each technology area: Introduction, Technical, Senior Technical, and Expert.

You can view the [entire framework](#), but you may find it easier to [search the framework](#). This will allow you to complete a CSS Search using a keyword or filter by area, level, or focus.

As you examine each CSS, you will notice a summary on each of the square tiles, which will inform you:

- The area covered by the CSS, e.g. Battery, Power Electronics etc.
- The title of the CSS, e.g. "Introduction to Power Electronics" and, where appropriate, a short description.
- The level of the CSS, e.g. Technical
- The focus of the CSS, e.g. Theory

Battery Manufacturing

Familiarisation of battery manufacturing module and pack design

Test description

Technical

Theory and Practical

Area

Title and Description

Activity Indicator

Level Focus

The ESN Framework Demo Video



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Building supported communities within electrification



**Accrediting
bodies**



Skills providers

- Sharing experiences and facilitating collaboration
- Providing neutral advice and guidance
- Linking skills demand and skills supply
- Providing upskilling opportunities and awareness



Delivery of a national forum for electrification



- Raising awareness of other initiatives
- A regular 'home' for stakeholders across electrification
- Further enhancing opportunities to collaborate and share ideas

How can I engage with ESN?

- Join one of our communities for regular updates and support
- Attend our national forum
- Search our framework to find and access skills solutions
- Add your courses and qualifications to the framework to increase global exposure
- Contact us, and through our network, communities and insight, we'll work with you to find a solution

