



Skills Bootcamp in Electric Vehicle and Battery Technology



Manchester Innovation Activities Hub

State of the Art £4 Million Facility in Manchester Science Park opening January 2023.

Delivering Skills Bootcamps to upskill for the green revolution.



Delivered at our EV Workshop at:
The Boiler house
M167DA

Developed by the Government as part of the Lifetime Skills Guarantee, Skills Bootcamps are being delivered in partnership with employers, providers and local authorities, to help people gain skills for life, help support skills demands in their local area, and ultimately – to help people get a better job.

Skills Bootcamps are flexible courses of up to 16 weeks, giving people the opportunity to build up sector-specific skills and fast-track to a guaranteed interview with a local employer.

**Industry
Trained
Tutors**

**Free
Courses**

**No
Experience
Needed**

Skills Boot Camp Modules

Electric vehicle safety BAT201/ELEC508 (1 day) 30 Nov

Introduction to battery safety, battery failures and faults and responding to battery fires and incidents.
Understand EV safety standards particularly around high voltage and high current.

Basic electric fundamentals ELEC 212 (1 day) 1 Dec

Understand the specific safety issues relating to high and low voltage systems. Recognise and understand the use and range of electric laws and the application.
Be able to create electric circuits from electric diagrams.

Further Electric Fundamentals ELEC 213 (1 day) 2 Dec

Understand and recognise the use of single and multiphase power.
Understand the function of transistors and transformers , alternating current (AC) ,direct current (DC) and AC/DC conversion.

EV Battery Technology BAT 202/203 (1 day) 14 Dec

Covers climate change and humans activity on the planet .
Sustainability covering environmental benefits of batteries in energy innovation. Air quality – the sources and effects of vehicle air pollution and current legislation.
Function and technology of battery technology covering battery structure and batteries in use i.e. charging, discharge cycles and configuration.

EV Battery Assembly ELEC 305 (1 day) 15 Dec

Gain knowledge and understand how to carry out dis-assembly and assembly safely on high energy batteries.
Learn about tools and operating practices. Understand the relevant complex components

Prototype in EV manufacture ELEC722 (1 day) 16 Dec

Understand how to prototype engineering project. Understand the safety and design elements to build electric vehicles. Learn the appropriate software to develop the prototype layouts.
Create programmes and test plans to ensure the electric machines are compliant.
Test and critically evaluate the prototype against designs specifications.

Repairs and rework of EV ELEC 303 (2 day) 4 & 5 Jan 23

Covers repair , rework and fault finding on electric vehicle. Provides health and safety education on high voltage systems.
Learn about correct use of tools and manufacturers (SOP) Standard Operating procedures.
Will learn how to log and record information detailing a “live” repair in line with OEM and motor trade guidelines.

Modules can be viewed at www.emergingskillsproject.com

Eligibility and Funding

Our Skills Bootcamps are fully funded for anyone aged 19+ who are:

- Employed either full-time or part-time
- Unemployed
- Self-employed
- A serving prisoner due to be released within 6 months of completion of a Skills Bootcamp and those on temporary release

Funded through the Department of Education's National Skills Fund.

If you are an employer wanting to upskill your workforce and have less than 250 employees you will be required to contribute £300 per learner.

Our team at the Manchester Innovation Hub endeavours to deliver the skills required to support the UK targets for net zero to save our planet.

Working with our team of engineers you will receive hands-on training on our vehicles. Our program is fun, friendly and interactive

This Skills Bootcamp is a great opportunity to gain an in-depth understanding of new technology, learn new skills and have guaranteed interviews for the next step in your career.

Please reach out to find out more and secure your place!

Neil Partridge
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Manchester Innovation Activity Hub



Get in touch...



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