POWERING AUSTRALIA

Training Catalogue 2026

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ABOUT THE BWST

Powering Australia's Battery Workforce Skills and Training (BWST) program is committed to amplifying the capability and capacity of Australia's battery workforce. This catalogue acts as the reference point for further BWST objectives including subsidising training and developing a skilled and capable battery workforce.

PURPOSE AND CONTEXT

This document is designed to help users identify suitable training opportunities that support workforce development and industry growth across the battery sector. The training listed has been identified as valuable in advancing careers across the battery value chain.

This catalogue does not include formal entry pathways into the industry, such as undergraduate qualifications or apprenticeships. Individuals seeking pathways into industries related to the battery workforce can access Powering Australia's Battery Powered Pathways for more information.

TRAINING CATEGORIES

Each category is defined below to guide users in selecting the most appropriate training.

Vocational Education and Training (VET)

VET courses are nationally recognised and provide post-trade skills and accreditation in the form of skill sets, accredited courses, units of competency, and qualifications. The training listed is primarily intended for electricians and automotive workers and may have prerequisite requirements.

Higher Education

The higher education qualifications listed within this catalogue are postgraduate offerings specifically related to energy storage and battery technology. These courses are targeted towards engineers, researchers, and industry professionals seeking advanced technical, research, or strategic expertise within the battery and energy storage sectors.

Non-accredited Training

Non-accredited flexible, condensed programs designed to build specific skills or knowledge over a shorter timeframe. They are typically not nationally recognised, though some may incur Continued Professional Development (CPD) points. These short courses generally range from a few hours to several months and are significantly shorter than a full qualification. They are targeted towards individuals seeking to develop knowledge and professional capabilities quickly.

Vocational Education and Training (VET)

SKILLSETS

AURSS00063	Battery Electric Vehicle Diagnose and Repair Skill Set
AURSS00064	Battery Electric Vehicle Inspection and Servicing Skill Set
UEESS00191	Grid-connected Battery Storage Systems Designer-Installer Skill Set
UEESS00192	Grid-connected Battery Storage Systems Installer Skill Set
UEESS00193	Grid-connected Photovoltaic and Battery Storage Systems Designer Skill Set
UEESS00207	Off-grid Photovoltaic Generating Set Systems Designer Skill Set
UEESS00205	Off-grid Photovoltaic/Generating Set Systems Designer-Installer Skill Set
UEESS00206	Off-grid Photovoltaic/Generating Set Systems Installer Skill Set

ACCREDITED COURSES

22609VIC	Course in Electric Vehicle Charging Infrastructure up to 22kW
22601VIC	Design a stand-alone power system
22600VIC	Install a stand-alone power system
11364NAT	Diploma of Renewable, Sustainable and Circular Manufacturing Management

Units of Competency

AURETH101	Depower and Reinitialise Battery Electric Vehicles
AURETH102	Inspect and maintain battery electric vehicles
UEERE0072	Inspection of Grid Connected Systems

Higher Education Courses

Engineering Institute of Technology	Advanced Diploma of Applied Electrical Engineering (Renewable Energy)
Engineering Institute of Technology	Graduate Certificate in Renewable Energy Technologies
Federation University	Graduate Certificate in Community Energy and Micro-Grid
Flinders University	Graduate Certificate in Renewable and Sustainable Energy
Murdoch University	Graduate Diploma in Energy and Carbon Studies
QLD University of Technology	Graduate Certificate in Renewable Power
TAFE NSW	Diploma of Renewable Energy Engineering
TAFE NSW	Energy Storage Systems
University of Newcastle	Graduate Certificate in Clean Energy
University of Newcastle	Graduate Diploma in Clean Energy
University of Queensland	Graduate Diploma in Sustainable Energy
University of Technology Sydney	Graduate Certificate in Sustainable Energy Technologies
University of the Sunshine Coast	Graduate Certificate in Renewable Energy Engineering

Australian Non-Accredited Training

3ME Technology	3ME Technology Training Course
ACS Distance Education	Energy Storage
AirSafe	Transporting Batteries by Sea (incorporating Lithium & Sodium batteries)
	Dangerous Goods by Air: Transporting Batteries by Air (incorporating Lithium and Sodium batteries)
Clean Energy Council	Battery Installation Safety
Deakin University	Battery Energy: Fundamentals for a Sustainable, Greener Future
	Exploring the World of Electric Mobility: Key Concepts and Strategies
	Battery Energy: Manufacturing
	Renewable Energy Microgrids: Energy Management in Standalone and Grid-Connected Modes
	Planning for Sustainability: Recycling and Waste in a Circular Economy
DG Trainer	Safe Storage and Handling of Lithium Batteries
Engineering Education Australia	Solar Battery Storage
Engineering Institute of Technology	Fundamentals of Electric Vehicles
	Professional Certificate of Competency in Battery Energy Storage and Applications
	Professional Certificate of Competency of Energy Storage
EV FireSafe	15 min ESSENTIAL Guide to Battery Fire Safety!
	EV Safer Charging System – AU/NZ

Global Sustainable Energy Solutions	Anatomy of Lithium Ion Batteries
	Vehicle-to-Grid
	AS/NZS 5139:2019 Overview
	Solar Battery System Fundamentals
New Energy Training	Solar and Battery Essentials
ORP Consultancy	Transport of Lithium Batteries
	Lithium Batteries by Air Acceptance Training
Skills Build	Electric Vehicle Charging Seminar
	Electric and Hybrid Electric Vehicle First Responders Course
SolarQuip	Microgrid Design Course
Southwell Solar Training	Testing a Battery Installation
	Labelling a Grid Connected Battery Installation
TAFE NSW	Prepare to work in the Renewable Energy Industry
	An Electrician's Guide to EV Charging
	Connect and disconnect charging systems
	Electric Bus Driver's Incident Response
	Safe and energy-efficient driving
	Emergency Responder Electric Vehicle Incident and Emergency Response
	Introduction to electric vehicles, systems and components
	Electric Vehicle Baseline Training
University of New South Wales	Free Battery Safety Short Course (Online & Self-Paced)
	Understanding the Risks of Lithium-Ion Battery Systems
	Critical Minerals for Net-Zero Economy
University of Newcastle	Fundamentals of Future Energy Storage
University of Wollongong	Battery Energy Storage

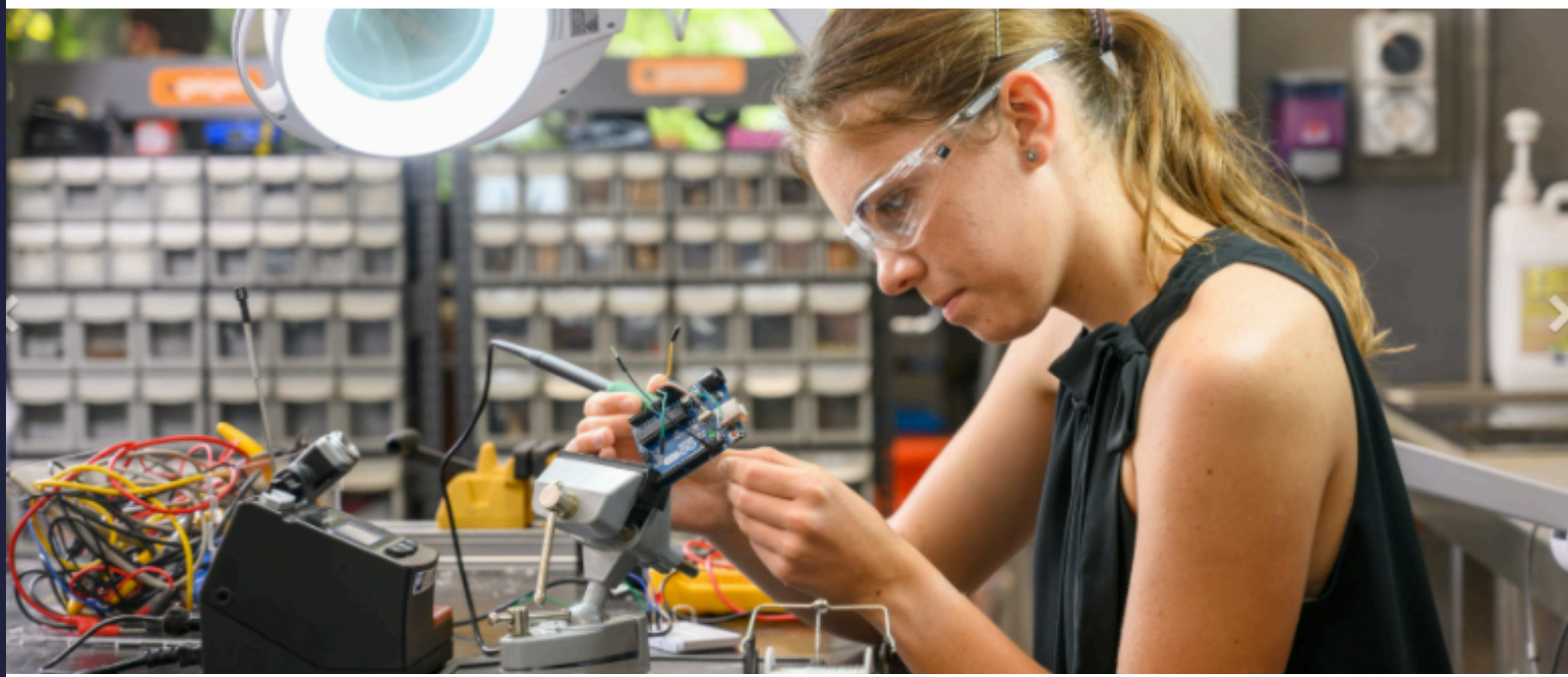
International Non-Accredited Training

American Institute of Chemical Engineers	Battery Basics
	Energy Storage: Research Directions, Applications, and Limitations
	Failure Mechanisms in Lithium Ion Batteries: Opportunities for Materials Development
	Metal Electrodes: The Future of Cost-Effective Storage of Electrical Energy
	Organic Aqueous Flow Batteries for Massive Electrical Energy Storage
Battery Associates	Battery101: Introduction to Lithium Ion Battery Basics
	BESS 101: Battery Energy Storage Systems Essentials
	Battery MBA
BattValue	Batteries for the Energy Transition: Exploring the Sustainable Value Chain
	Battery recycling and ecosystem
	Introduction to lithium-ion batteries
	Sustainability in the battery value chain
	Fundamentals of battery electrochemistry
	From cell analysis to pack integration
	Next generation lithium-ion batteries and beyond
BIC Indiana	Energy Storage Short Course
	Hybrid In-Person & Virtual Energy Storage Short Course
	NFPA 70E Electrical Safety and Lithium Battery Fundamentals
EnginSoft	Hybrid Models for Lithium Battery Analysis: Advantages, Challenges, and Practical Applications
	Introductory Course on Lithium Batteries: Advantages, Challenges, and Practical Application

Fraunhofer FFB	Sustainable Battery (LCA)
	Handling Cells and Packs
	Introduction Battery System
	Quality in Battery Cell Production
	Experience Cell Manufacturing Process
	Spotlight Lithium-Ion-Battery
	Data Science in Battery Cell Production
InnoEnergy	Digital Battery Passport System: An Introduction
	End-of-Life, Second Life, and Recycling
	Introduction to Battery Safety
Nanohub	Introduction to the Materials Science of Rechargeable Batteries
PGS Energy Training	Battery Energy Storage Valuation Techniques
	Grid Batteries Commissioning and Performance Testing – On-demand
	Sizing and Designing Battery Energy Storage
Recycled Materials Association	High Voltage Electric Vehicle Technology Training for Recycling Professionals
RENAC	Energy Storage – Application and Technology
	Battery Energy Storage Systems for Grid Ancillary Services (BESS)
SAE International	Advanced Battery Cell Production Dry Room Safety
	Lithium Ion Family Battery Systems
	High Voltage Battery Systems
	Safe Handling of High Voltage Battery Systems
	Introduction to Battery Technology in BEVs, HEVs, and PHEVs
	Introduction to Hybrid and Electric Vehicle Battery Systems
	Hybrid and Electric Vehicle Engineering Academy

Siemens	Introduction to battery production and battery technology (BAT-PROD-1)
	Advanced battery production and digitalization (BAT-PROD-2)
Soteria	Introduction to Battery Safety
	Battery Storage Opportunities and Uses (Fundamental)
	Energy Systems Integration: An Introduction (Fundamental)
	Energy Systems Integration: Evolution in Electricity Grids (Fundamental)
	Energy Systems Integration: The Future of Transport (Fundamental)
	Understanding Battery Storage: The Battery Revolution (Fundamental)
	Battery Management Systems (Advanced)
	Battery Testing (Advanced)
	Electrodes to Cells (Advanced)
	Materials to Electrodes (Advanced)
	Power Converters and Efficiency in Battery Applications (Advanced)
	Intro to Solid State Batteries (Advanced)
	Battery Storage Basics (Fundamental)
	Battery Storage and the Energy Transition (Fundamental)
	Energy Systems Transformation (Intermediate)
	Energy Storage: The Battery Revolution (Intermediate)
	Battery Storage Applications (Intermediate)
	Battery Storage: Business Models, Markets, and Regulations (Intermediate)
	Battery Storage Value Chain (Intermediate)
	Cybersecurity in the Energy Sector (Intermediate)
	Managing Energy Data: Advanced Analytics (Intermediate)
	Battery Management Connection and Control (Advanced)
	Battery Technician Program (Fundamental)
	Fundamentals of Batteries (Fundamental)

The Electrochemical Society	Materials Science in Lithium-ion Battery Components: Electrolytes, Anodes, and Cathodes
	Electrochemical Techniques and Diagnostics for Batteries
	Manufacturing of Lithium Ion Batteries and Pack Design
The Renewable Energy Institute	Energy Storage
TUV SUD	Fundamentals of High Voltage Systems in Electric Vehicles – Level 1
	Qualified Safety Work for High Voltage Vehicle System in a De-energized State – Level 2
	Live Working EV Training: High-Voltage Vehicle Systems and Battery Safety – Level 3
UK Battery Industrialisation Centre	Deep Dive – Cell Assembly
	Deep Dive – Electrode Manufacture
	Deep Dive – Formation, Ageing and Testing
	Deep Dive – Module and Pack
	Introduction to Battery Manufacturing
University of Michigan	Hybrid & Electric Vehicles
	Battery Cell Manufacturing, Testing, and Design



Additional Resources

ONLINE LEARNING PLATFORMS

Coursera – Short courses and micro-credentials across energy, engineering, and technology
Udemy – Self-paced technical and professional development courses

CAREER PATHWAYS AND GUIDANCE

Battery Powered Pathways – Information on career pathways and entry points into battery-related industries
Training.gov.au – National register of VET training products and RTOs
Microcred Seeker – Searchable database of short-form and modular learning options

INDUSTRY LEARNING

LearnLab – By the Clean Energy Council, including workforce resources and professional development opportunities
Solar Accreditation Australia – CPD opportunities for home battery installers, includes OEM training