

LEARN WITH THE LEADERS

PROSPECTUS

2026/2027

PROSPECTUS



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ABOUT US



Our Vision:

Building Local Capacity for the Electric Vehicle



Our Mission:

To empower the next generation of professionals in the electric and hybrid vehicle industry.



STUDY PATHS

IMI Certification Pathway

- Established 1920
- Professional association for motor industry professionals
- Leading automotive qualification and accreditation body
- 250+ Motor industry qualifications
- 600+ Training centres worldwide



Recognized internationally by governments, education authorities, and automotive centers in:

- Europe
- Middle East
- China
- South East Asia
- Africa

The IMI NEV Certification Path:

The AIMGT framework provides a clear career path for New Energy Vehicle expertise. It scales from basic safety awareness for non technical staff to master level diagnostics on live high -voltage components

Level

1

Awareness:
Employed/Technical people/
No prior NEV experience

Level

2.1

Hazard Management:
Matric with maths and Science or
Emergency and Recovery personnel
with relevant working experience

Level

2.2

Routine Maintenance:
Auto electricians, technicians, vehicle
maintenance or experienced
individuals in the mechanical
engineering sector.

Level

3

NEV System Repair and Replacement:
Intermediate to highly experienced auto electricians with
5 or more years of working experience. OR auto
electrician candidates with IMI Level 2 experience and six
months of documented work experience. Candidates' CVs
will be required for the training center to assess their
suitability for training at this level.

Level

4

**Diagnosis, Testing and Repair of
NEV and components:**
Highly experienced Auto electrician with a minimum of
7+ years working experience with Battery Management
System and/or an experienced Auto electrician or
Technician with IMI Level 3 Award and a minimum of 6
months documented work experience. Pre-examination
test is required along with the candidate CV.

IMI LEVEL 1 AWARD IN NEV VEHICLE AWARENESS

Prerequisite

No prior qualifications are required for this award.

Note: This is a knowledge-based unit only and does not qualify individuals to work on the high-energy electrical systems of electric or hybrid vehicles.

Course Outline:

- Introduction to electric and hybrid vehicles. Reasons for the transition.
- Introduction to Basic Electrical Principals.
- Hazards associated with working with High Voltage Systems. Electric Vehicles Features and Identification.
- Safety Precautions when coming across High Voltage Vehicle.

Duration:

- 2 days: (Technical Personnel)
- 3 days: (Non - Technical Personnel)

Assessments:

Online IMI INT-EHV1-A-23 Assessment

IMI LEVEL 2.1 AWARD IN NEV VEHICLE EMERGENCY RESPONDERS AND RECOVERY PERSONNEL

Prerequisite

Matriculation certificate with passes in Mathematics and Science, and possession of the IMI Level 1 Award Awareness Training.

OR, for Emergency, non-electrical vehicle maintenance, and recovery personnel: relevant working experience.

Course Outline:

- Electric and Hybrid Vehicle Technology Electrical Principals
- Hazard Management when approaching High energy electrical systems
Emergency Scenario and Risk Assessment Analysis
- Safety Protocol's of EV/HEV/PHEV
- Interactive Activities with Car Train System by Lucas-Nuelle.

Duration:

5 Days

Assessments:

IMI INT-EHVHM2-A Online Assessment
IMI INT-EHVHM2-A Oral Assessment

IMI LEVEL 2.2 AWARD IN NEV VEHICLE ROUTINE MAINTENANCE

Prerequisite

Auto-electrician or technician with 3+ years working experience or Auto-electrician with IMI Level 1 Award and 6 months documented experience.

Candidates' CVs will be required for the training center to assess their suitability for training at this level.

Course Outline:

- Introduction to the Electric Vehicle and Hybrid Vehicle Safety features, equipment's and process when working on a High Voltage vehicle.
- Electric/Hybrid vehicle system components.
- Operational Hazards surrounding Electric/Hybrid vehicles. Risk reduction when working on Electric/Hybrid vehicles.
- Understanding the basic electrical principles and laws, how to correctly use measuring equipment and read wiring diagrams.
- Safely preparing the vehicle when carrying routine maintenance (NOT high voltage components or systems)
- The Lucas-Nuelle Car Train Systems and its uses for maintenance practices and training

Duration:

5 Days

Assessments:

IMI INT-EHVRM2-A-23 -Online Assessment
IMI INT-EHVRM2-A-23 Practical Assessment

IMI LEVEL 3 AWARD IN NEV VEHICLE SYSTEM AND REPAIR

Prerequisite

Intermediate to highly experienced auto electricians with 5 or more years of working experience. OR auto electrician candidates with IMI Level 2 experience and six months of documented work experience.

Candidates' CVs will be required for the training center to assess their suitability for training at this level.

Course Outline:

- Safety equipment and procedures
- Electronics principles Hazards and risks associated with high-voltage vehicles
Types of electric and hybrid systems
- Types of batteries and cells Hybrid/EV Powertrain layouts
- Electric motors, inverters, DC-to-DC converters Carrying out repairs on high-energy electrical systems
- Ability to safely remove and replace electric and hybrid vehicle high-voltage components
- Recording information and making suitable recommendations
- The use of the Lucas-Nuelle Car Train System for advanced maintenance and fault repairs

Duration:

5 Days

Assessments:

IMI INT-EHVSR3-A-23 Online Assessment
IMI INT-EHVSR3-A-23 Practical Assessment



IMI LEVEL 4 AWARD IN NEV VEHICLE FAULT DIAGNOSIS, TESTING AND REPAIR OF NEV VEHICLES AND COMPONENTS

Prerequisite

Highly experienced Auto electrician with a minimum of 7+ years working experience with Battery Management System and/or an experienced Auto electrician or Technician with IMI Level 3 Award and a minimum of 6 months documented work experience. Pre-examination test is required along with the candidate CV.

Course Outline:

- Safety procedures when working on high voltage components.
 - The removal and installation of high voltage components, such as battery modules.
 - Battery management systems, including temperature control cell management.
- Candidates will be trained on how to carry out component evaluation and repairs on live high voltage vehicle systems safely.
- Diagnostic and data gathering to troubleshoot a HV system.
 - High voltage safety procedure whilst working on the battery component.
- EV/PHEV/HEV Workshop Practical's

Duration:

5 Days

Assessments:

IMI INT-LVEV4 Online Assessment
IMI INT-LVEV4 Practical Assessment



STUDY PATHS



ASDC AFFILIATED PARTNER



About the Automotive Skills Development Council (ASDC)

The Automotive Skills Development Council (ASDC) is India's first and premier Sector Skill Council, dedicated to the continuous upskilling and certification of the automotive workforce. Established in 2011, ASDC is a collaborative initiative between the Government of India and the apex bodies of the Indian automotive industry:

- SIAM: Society of Indian Automobile Manufacturers
- ACMA: Automotive Component Manufacturers Association of India
- FADA: Federation of Automobile Dealers Associations

Recognition & Industry Value

ASDC operates under the aegis of the Ministry of Skill Development and Entrepreneurship (MSDE) and is an affiliated awarding body under the National Council for Vocational Education and Training (NCVET).

By enrolling in an ASDC-affiliated program through AIMGT, students receive:

- Government-Recognized Certification: Enhancing employability across India and globally.
- NSQF-Aligned Curriculum: Training based on the National Skills Qualification Framework (NSQF), ensuring the skills taught are exactly what the industry demands.
- Future-Ready Skills: Focused training on emerging technologies in Green Mobility

[MORE INFO ON OUR WEBSITE](#)





Electric Vehicle Assembly Operator

Electric Vehicle Quality Control Inspector

Fundamentals of EV Battery Pack Design

EV Awareness & Technology Transition Program

EV Charging Infrastructure & Smart Energy Workshop

Battery Technology & Energy Management Workshop





Electric Vehicle Assembly Operator

Prerequisite

- Grade 12 (Matric) or NQF Level 4 preferred
 - Mathematics or Mathematical Literacy recommended
 - Basic mechanical aptitude
 - Ability to read simple technical instructions
- Physically fit for workshop activities
- Medical declaration confirming no pacemaker or serious heart condition due to proximity to electrical systems. No prior experience required. Suitable for TVET final-year students, unemployed youth, or entry-level manufacturing workers

Job Roles

- Perform EV Assembly Operations (Operator Level) Health, Safety & Environment Organize Work & Resources

Assessment

Theory: MCQ Min 70%
Practical: Assembly demo Min 70%

Course Content

- EV component identification;
- Frame & body assembly support; Battery module handling under supervision;
- Motor mounting assistance;
- Wiring harness routing;
- Fastening & torque basics;
- 5S & workplace housekeeping;
- Quality inspection basics;
- PPE usage;
- Assembly SOPs

Learning outcome

Support EV assembly operations under supervision; Handle battery modules safely; Follow assembly SOPs; Maintain 5S standards



Electric Vehicle Quality Control Inspector

Prerequisite

- Grade 12 with Mathematics and Physical Science OR
 - TVET qualification in Mechanical / Electrical / Mechatronics (NQF Level 4-5) or 6–12 months manufacturing or workshop exposure recommended
- Basic understanding of measurements and technical drawings
 - Basic computer literacy
 - Prior exposure to workshop or manufacturing environment recommended
 - Medical declaration regarding electrical safety

Job Roles

- Conduct EV Quality Inspection
- H&S Organize Work Interpret Engineering Drawing

Assessment

Theory: MCQ Min 70%
Practical: Inspection task Min 80%

Learning outcome

Conduct quality inspections on EV components & assemblies; Use measurement tools accurately; Document non-conformances; Apply ISO quality standards

Course Content

- Quality management systems basics; Inspection tools – vernier, micrometer, CMM basics;
- Visual & dimensional inspection; Battery pack quality checks;
- BMS testing parameters;
- Electrical safety testing;
- Non-conformance reporting; ISO 9001 awareness;
- Documentation & traceability;
- Rework & rejection process



Fundamentals of EV Battery Pack Design

Prerequisite

Diploma / Degree in Electrical, Electronic, Mechatronics, Energy Systems or Automotive Engineering (NQF Level 6+)

- Understanding of electrical circuits
 - Basic thermodynamics or heat transfer knowledge recommended
 - Basic computer literacy
 - Understanding of laboratory safety
- 2–5 years' experience in electrical, electronics, energy systems or automotive engineering

Job Roles

Design & Analyze EV Battery Pack Systems (NOS-Level Qualification)

Assessment

Theory: Written Min 70%
Practical: Pack design & simulation
Min 70%

Learning outcome

Design battery packs to vehicle specifications; Select BMS components; Apply thermal management solutions; Validate pack performance against IEC/IS standards

Course Content

- Battery cell chemistry – Li-ion, LFP, NMC, NCA;
- Cell selection & sizing;
- Series/parallel configurations;
- Pack architecture design;
- BMS design – cell balancing, protection circuits;
- Thermal management design;
- Battery testing – capacity, C-rate, cycle life; Safety standards
- IEC 62133, IS 15570;
- Pack integration & validation



EV Awareness & Technology Transition Program- ASC/N9002 (Foundation)

Prerequisite

Open entry

- Minimum Grade 10 / NQF Level 2 recommended
 - Suitable for: technicians, students, policymakers, fleet operators, government officials, entrepreneurs
- No experience required – suitable for policymakers, managers, fleet operators, students

Job Roles

Health, Safety & Environment in Automotive – Foundation Level

Assessment

Attendance + Practical Demo Exam
Theory: MCQ Min 80%

Course Content

- EV vs ICE – architecture & working principles;
- EV types – BEV, HEV, PHEV, FCEV;
- Key EV components overview;
- HV safety awareness & PPE identification;
- SA EV market & policy landscape;
- Hands-on: 2W/3W/4W/Golf Cart drivetrain & battery familiarization

Learning outcome

Understand EV technologies; Identify HV hazards; Differentiate EV vs ICE systems; Foundation readiness for ASDC formal programs



EV Charging Infrastructure & Smart Energy Workshop - ASC/N1450 (Foundation) ASC/N8119 (Foundation)

Prerequisite

ASC/N1450 (Foundation) ASC/N8119 (Foundation)

- Grade 12 with Mathematics and Science OR
 - Qualified electrician / electrical technician / solar PV installer
 - Basic understanding of electrical systems
 - Compliance with Electrical Safety Regulations recommended
- Or 1-3 years' experience in electrical, automotive, or battery maintenance fields

Job Roles

4W EV Service Foundation EV Powertrain Design Foundation

Assessment

Attendance + Practical Demo Exam
Theory: MCQ Min 80%

Learning outcome

Understand EV charging ecosystem; Differentiate connector types; Operate and configure EVSE; Understand solar PV integration with EV charging

Course Content

- AC/DC charging fundamentals;
- Charger types – Type 1, Type 2, CCS, CHAdeMO, GB/T;
- OCPP 1.6/2.0 basics;
- EVSE installation overview;
- Solar PV integration with charging;
- Smart energy management basics;
- SA charging standards & NERSA regulations;
- Hands-on: Level 2 charger setup & OCPP demonstration



Battery Technology & Energy Management Workshop

ASC/N8118 (Foundation) ASC/N6816 (Foundation)

Prerequisite

Battery Technology & Energy Management Workshop

- Grade 12 with Mathematics and Science OR
 - Mechanical / electrical technician background
 - Basic knowledge of DC electrical systems
 - Workshop safety awareness

1-3 years' experience in electrical, automotive, or battery maintenance fields

Job Roles

Battery Pack Design – Foundation EV
Maintenance – Foundation

Assessment

Attendance + Practical Demo Exam
Theory: MCQ Min 80%)

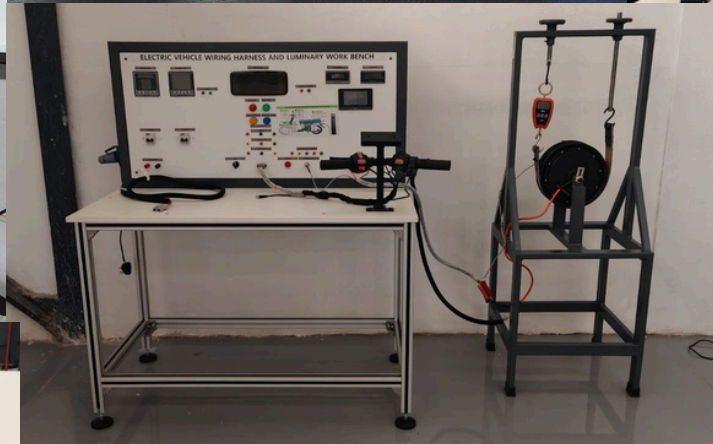
Learning outcome

Explain battery chemistry & pack configurations; Interpret BMS data; Handle and store batteries safely; Conduct basic battery health checks

Course Content

- Battery cell chemistry – Li-ion, LFP, NMC;
- Cell, module & pack hierarchy;
- BMS functions – SoC, SoH, protection, balancing;
- Series/parallel pack configurations;
- Thermal management basics;
- Battery testing – voltage, capacity, internal resistance;
- Safe handling, storage & disposal;
- Hands-on: Cell measurement, pack inspection, BMS indicator reading

GALLERY



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**MORE INFO ON OUR
WEBSITE**

