

LEARN WITH THE LEADERS

PROSPECTUS

2026/2027



Brought to you by



TABLE OF CONTENTS >>>



01

Welcome

A message from our team

02

About Us

Who we are & why it matters

03

ASDC Study Paths

Assembly, QC, Battery & Charging

04

Electric Vehicle Assembly
Operator

05

Electric Vehicle Quality Control
Inspector

06

Fundamentals of EV Battery
Pack Design

07

EV Charging Infrastructure &
Smart Energy Workshop

08

Fundamentals of Electric
Vehicle Powertrain Design

09

Battery Technology & Energy
Management Workshop

10

Epilogue

Course Duration, Certification, Enrollment Process,
Our Facilities and Gallery



Your future in green mobility starts here.



INSTITUTE OF THE
MOTOR INDUSTRY
APPROVED CENTRE



WELCOME



A Message from Our Team

Welcome to the Africa Institute of Mobility & Green Technology.

The automotive world is changing and it's changing fast. Electric vehicles are no longer a future concept; they are here, on our roads, in our workshops, and increasingly in the conversations that shape South Africa's industrial future.

Whether you're a seasoned technician looking to future-proof your career, a young person searching for a meaningful path into industry, or an employer investing in your team's readiness this prospectus is your starting point.

We don't just teach courses. We build capability. Every qualification we offer is internationally recognised, practically grounded, and designed around the real needs of our industry.

The future belongs to those who prepare for it. Let's get started.



ABOUT US — — — — —



Our Story

For more than a decade, ChrisnelSA has provided Quality Control, Quality Management System & ISO training, containment services and skills development to manufacturing and automotive industries in South Africa and globally. When we launch the only IMI Accredited EV/HEV Training Centre in Africa for skilled technicians our next task was to look further into the Battery Value Chain.

This foundational experience in skills development uniquely positioned us to establish AIMGT- Africa Institute of Mobility & Green Technology, a dedicated training centre addressing the evolving needs of the electric and hybrid vehicle sector.



Our Vision:

Building Local Capacity for the Electric Vehicle Revolution in Africa.



Our Mission:

To empower the next generation of professionals in the electric and hybrid vehicle industry through world-class, internationally accredited training.

STUDY PATHS



About the ASDC

The Automotive Skills Development Council (ASDC) is India's first and premier Sector Skill Council, established in 2011 as a collaborative initiative between the Government of India and the apex bodies of the Indian automotive industry (SIAM, ACMA, FADA). ASDC operates under the Ministry of Skill Development and Entrepreneurship and is an affiliated awarding body under the National Council for Vocational Education and Training (NCVET). AIMGT is a proud ASDC Affiliated Partner.



Electric Vehicle Assembly Operator

Entry-level assembly operator



Electric Vehicle Quality Control Inspector

Inspection, testing & ISO standards



Fundamentals of EV Battery Pack Design

Cell chemistry to pack integration



Fundamentals of Electric Vehicle Powertrain Design

2/3/4-wheeler electric powertrain system



EV Charging Infrastructure & Smart Energy Workshop

EVSE, solar PV & OCPP



Battery Technology & Energy Management Workshop

Introduction to the BMS, thermal management & cell testing

Electric Vehicle Assembly Operator

Prerequisite

- Grade 12 (Matric) or NQF Level 4 preferred
- Mathematics or Mathematic literacy
- 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.

Job Roles

- EV Assembly Line Operator
- Battery Module Assembly Operator
- Frame & Body Assembly Operator
- Chassis Assembly Operator
- In-Process Quality Check Operator

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/ workshop exposure
- Basic understanding of measurements and technical drawings
- Basic computer literacy
- Prior exposure to workshop or manufacturing environment recommended.
- Medical declaration confirming no pacemaker or serious heart condition due to proximity to electrical systems.

Job Roles

- EV Quality Inspector
- EV Component Quality Inspector
- Electrical Safety Testing Technician
- Quality Assurance Technician (EV Manufacturing)

Assessment

Theory: MCQ Min 70%

Practical: Inspection task Min 80%

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

Learning outcome

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

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.
- 2–5 years' experience in electrical, electronics, energy systems or automotive engineering.

Job Roles

- Battery Pack Design Engineer
- BMS Hardware Design Engineer
- Battery Thermal Management Engineer
- Battery Modelling & Sizing Analyst
- Battery Technology Researcher
- Battery Manufacturing Quality Engineer

Assessment

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

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

Learning outcome

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

EV Charging Infrastructure & Smart Energy Workshop

Prerequisite

- Qualified Electrician with a valid Wireman's Licence (single or three phase) issued by the Department of Employment and Labour **OR**
- Registered Solar PV Installer (PV GreenCard holder or equivalent SAPVIA-recognised qualification) **OR**
- National Diploma in Electrical Engineering, Energy Studies, or related field **OR**
- Electrical Technician with N3–N6 TVET Certificate and completed trade test in Electrical Engineering
- Familiarity with SANS 10142 (Wiring of Premises), the Electrical Installation Regulations under OHSA, and general electrical safety practices, recommended

Job Roles

- EV Charging Station Installer
- EVSE Commissioning Technician
- EV Charger Maintenance Technician
- Solar-to-EV Integration Installer
- Charging Network Operations Coordinator

Assessment

Theory: MCQ Min 80% |
Practical: Practical Demonstration Exam

Learning outcome

Understand the 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

Fundamentals of Electric Vehicle Powertrain Design

Prerequisite

- National Diploma or Advanced Diploma in Electrical, Mechanical, Mechatronics, or Automotive Engineering **OR**
- BEng / BSc Engineering degree (3rd year or completed) in a relevant discipline **OR**
- N4–N6 TVET qualification in Electrical, Mechanical, or Automotive trade with 1–2 years' industry experience
- Understanding of electrical circuits and thermodynamics recommended

Job Roles

- Electric Drive Unit (EDU) Design Technician
- EV Drivetrain Layout Engineer
- Power Electronics Design Engineer
- Dynamometer Test Operator
- HiL/SiL Test Engineer
- Traction Motor Assembly Specialist

Assessment

Theory: Written and MCQ Min 80% |
Practical: Practical Demonstration Exam

Learning outcome

Prepare on power distribution modes in EV and AEM; Design Electric Drive Units for optimal balance of power consumption and performance; Validate EDU design at system and vehicle level for performance, reliability and quality.

Course Content

- Alternative energy mobility options & power distribution modes
- Electrical energy generation & mechanical power transfer
- Powertrain assemblies, inverter to traction motor
- Powertrain ECU parameters: frequency, current, power density
- Power density module (PDM) design with SiC power electronics
- V-model development for virtual verification & validation

Battery Technology & Energy Management Workshop

Prerequisite

- National Senior Certificate (Grade 12/Matric) with Mathematics and Physical Science **OR**
- N3–N4 TVET Certificate in Electrical or Mechanical Engineering studies **OR**
- Qualified Artisan (Electrician, Millwright, or Motor Mechanic) with a relevant trade test certificate **OR**
- Mechanical / Electrical technician with 1–3 years' documented experience in electrical, automotive, or battery maintenance
- Basic knowledge of DC electrical
- Workshop safety awareness

Job Roles

- Battery Health Assessment Technician
- Battery Pack Testing Technician
- BMS Diagnostics Technician
- Cell & Module Quality Inspector
- Battery Pack Maintenance Technician
- Battery Module Integration Technician

Assessment

Theory: Written and MCQ Min 80% |
Practical: Practical Demonstration Exam

Learning outcome

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

Course Content

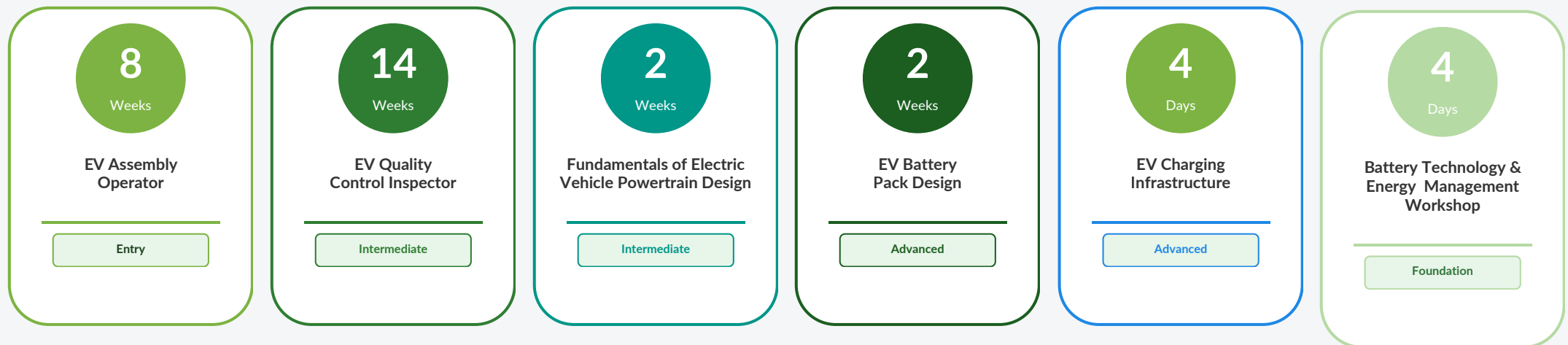
- Battery cell chemistry: Li-ion, LFP, NMC.
- Cell, module & pack hierarchy
- BMS functions: SoC, SoH, protection, balancing
- Series/parallel pack configurations
- Thermal management basics
- Battery testing: Voltage, capacity, internal resistance
- Safe handling, storage & disposal
- Hands-on: Cell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

Course Duration

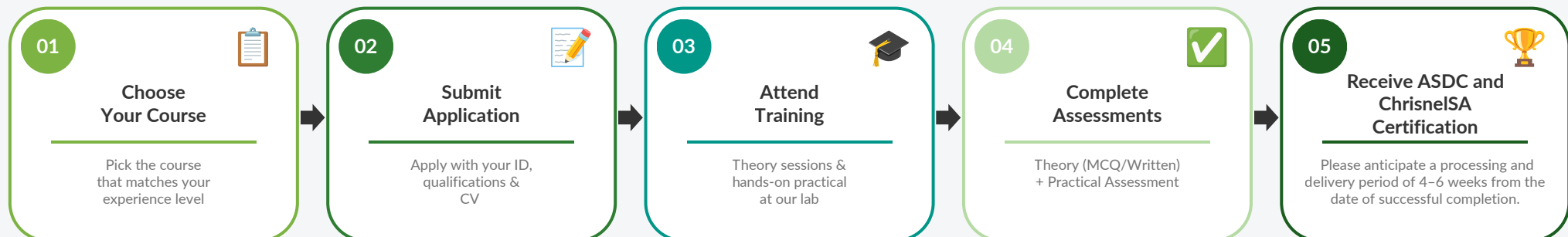


Certification Process

How Long Does Each Course Take?



Your Certification Journey

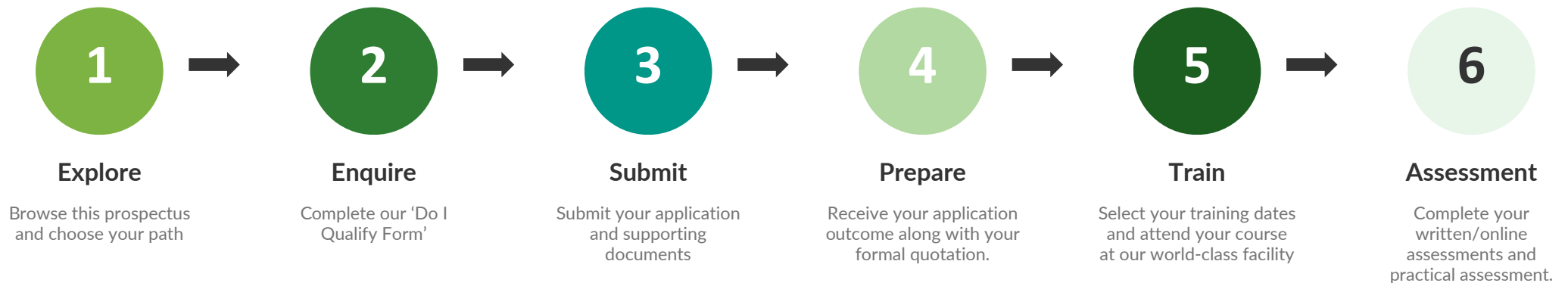


YOUR JOURNEY

STARTS HERE



How to Enrol



What You'll Need

- ✓ Certified copy of your ID or passport
- ✓ Certified copy of your highest qualification
- ✓ Updated CV
- ✓ Medical declaration (for courses with workshop components)
- ✓ Proof of relevant work experience (where applicable)
- ✓ Completed AIMGT application form

Important Note: Applicants can apply without submitting **certified** ID/Passport and Qualifications copies. However, ChrisnelSA (Pty) Ltd reserves the right to verify any information/documents submitted and will immediately cancel your registration and take necessary legal action in the event that any fraudulent document/s and/or other misrepresentation have been provided.

Training Dates

Where the Future of Mobility is Built.

SEPTEMBER



Build skills.
Move forward.

DATES	COURSE	DELIVERY	VENUE
07 - 10 Sep 2026	EV Charging Infrastructure & Smart Energy Workshop	In-Person	Rosslyn, Pretoria
14 - 17 Sep 2026	Battery Technology & Energy Management Workshop	In-Person	Rosslyn, Pretoria
28 Sep - 01 Oct 2026	EV Charging Infrastructure & Smart Energy Workshop	In-Person	Rosslyn, Pretoria

Note: More courses will be added in the last quarter of the year. Please visit www.aimgt.co.za for the latest schedule.

OCTOBER



Learn today.
Lead tomorrow.

DATES	COURSE	DELIVERY	VENUE
05 - 08 Oct 2026	Battery Technology & Energy Management Workshop	In-Person	Rosslyn, Pretoria
12 - 15 Oct 2026	EV Charging Infrastructure & Smart Energy Workshop	In-Person	Rosslyn, Pretoria
19 - 22 Oct 2026	Battery Technology & Energy Management Workshop	In-Person	Rosslyn, Pretoria
26 - 29 Oct 2026	EV Charging Infrastructure & Smart Energy Workshop	In-Person	Rosslyn, Pretoria

NOVEMBER



Power progress.
Shape the future.

DATES	COURSE	DELIVERY	VENUE
02 - 05 Nov 2026	Battery Technology & Energy Management Workshop	In-Person	Rosslyn, Pretoria
09 - 12 Nov 2026	EV Charging Infrastructure & Smart Energy Workshop	In-Person	Rosslyn, Pretoria
16 - 19 Nov 2026	Battery Technology & Energy Management Workshop	In-Person	Rosslyn, Pretoria
23 - 26 Nov 2026	EV Charging Infrastructure & Smart Energy Workshop	In-Person	Rosslyn, Pretoria

OUR FACILITIES



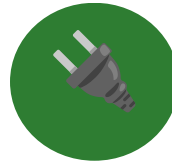
World-Class Training Equipment

See it. Touch it. Learn it. Our hands-on approach means you train on real equipment, not textbooks.



Lucas-Nülle Car Train System

Industry-standard EV/HEV training platform for diagnostics, maintenance and fault-finding.



Electric Vehicle Wiring Harness Bench

Full-scale wiring harness and component workbench for hands-on electrical training.



3-Wheeler EV Powertrain Trainer

Complete electric 3-wheeler powertrain training system for practical assembly.



2-Wheeler EV Powertrain Trainer

Electric motorcycle/scooter powertrain system for entry-level training.



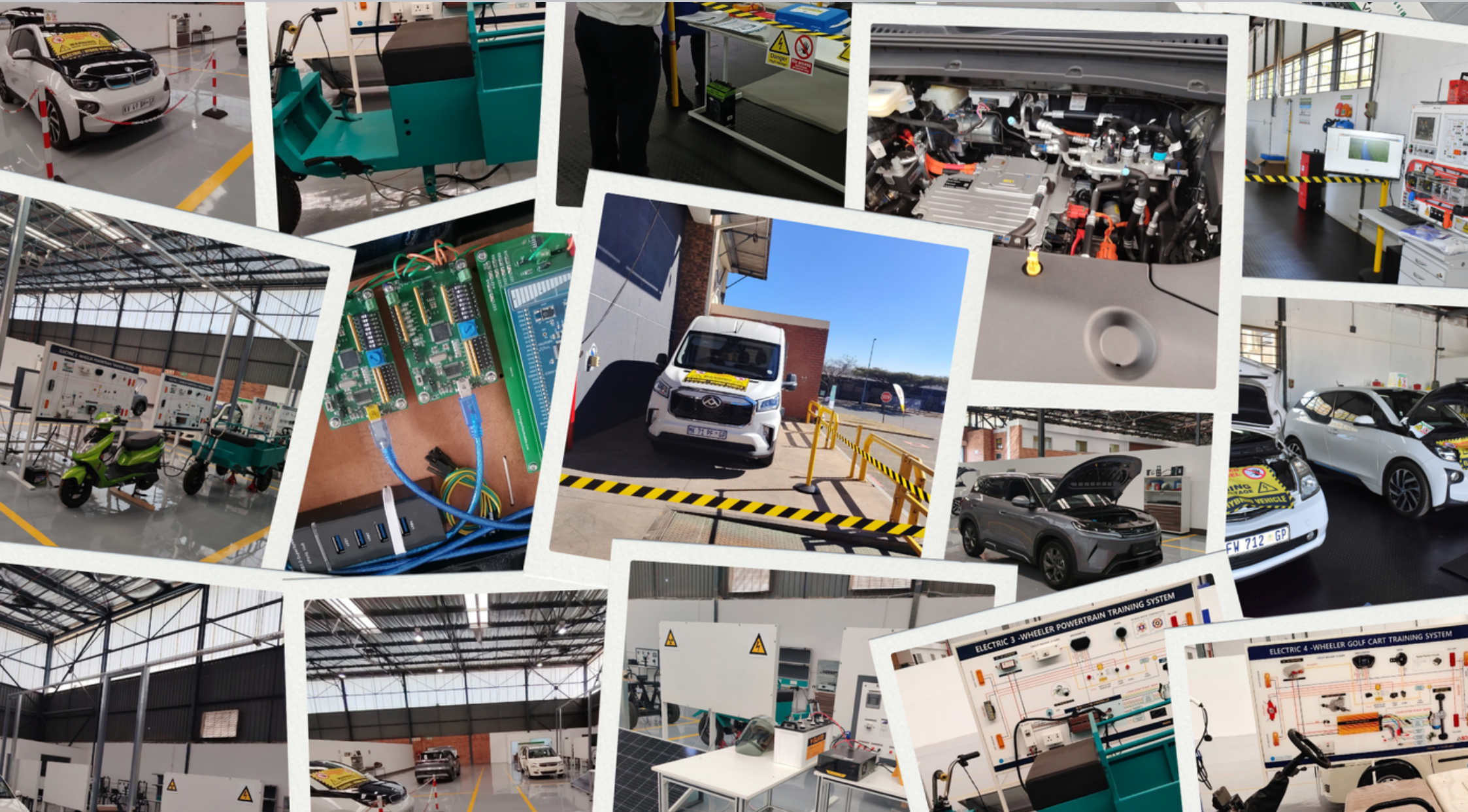
4-Wheeler Golf Cart Training System

Electric golf cart drivetrain for battery and motor familiarisation.



BLDC Drivetrain Training System

Universal Brushless DC motor drivetrain for understanding EV propulsion systems.



CONTACT US



+27 (0) 12 072 0307



EV.TRAINING@CHRISNELSA.CO.ZA
NEV.TRAINING@AIMGT.CO.ZA



WWW.AIMGT.CO.ZA



HEAD OFFICE

113 DE WAAL STREET, JASPER
PARK UNIT A1 & A2, ROSSLYN



AIMGT CENTRE OF EXCELLENCE

30 HELIUM ROAD,
ROSSLYN EXT 2, 0200
UNIT A5



**MORE INFO ON OUR
WEBSITE**

