Electric Fleet Transition Strategies Training Course

Professional Development Training Course Outline

Category	Renewable Energy	**Duration**	5 Days
Base Fee	$1,500 USD	**Delivery Mode**	Online / On-site Hybrid

Course Introduction

Electric Fleet Transition Strategies Training Course equips transport, logistics, mobility, sustainability, and fleet-management professionals with the knowledge and practical tools required to successfully transition from internal combustion engine (ICE) vehicles to electric vehicles (EVs). The course explores fleet electrification, EV adoption, total cost of ownership (TCO), charging infrastructure, battery technology, energy management, route optimization, fleet telematics, sustainability, carbon reduction, and electric mobility strategy. Participants learn how to evaluate fleet readiness, select suitable electric vehicles, design charging ecosystems, manage operational risks, and build commercially viable electrification roadmaps aligned with net-zero, ESG, decarbonization, and clean transportation goals.

Through practical exercises, industry scenarios, and electric fleet case studies, participants develop strategies for overcoming common transition barriers including charging downtime, grid capacity, upfront capital expenditure, battery degradation, driver adoption, vehicle range, operational disruption, and infrastructure scalability. The course emphasizes data-driven decision-making, smart charging, renewable energy integration, digital fleet management, fleet optimization, predictive analytics, and sustainable mobility to help organizations achieve measurable reductions in fuel costs, operating expenses, greenhouse-gas emissions, and fleet-related carbon footprints.

Programme Curriculum

Electric Fleet Transition Strategies Training Course

Introduction

Electric Fleet Transition Strategies Training Course equips transport, logistics, mobility, sustainability, and fleet-management professionals with the knowledge and practical tools required to successfully transition from internal combustion engine (ICE) vehicles to electric vehicles (EVs). The course explores fleet electrification, EV adoption, total cost of ownership (TCO), charging infrastructure, battery technology, energy management,

route optimization, fleet telematics, sustainability, carbon reduction, and electric mobility strategy. Participants learn how to evaluate fleet readiness, select suitable electric vehicles, design charging ecosystems, manage operational risks, and build commercially viable electrification roadmaps aligned with net-zero, ESG, decarbonization, and clean transportation goals.

Through practical exercises, industry scenarios, and electric fleet case studies, participants develop strategies for overcoming common transition barriers including charging downtime, grid capacity, upfront capital expenditure, battery degradation, driver adoption, vehicle range, operational disruption, and infrastructure scalability. The course emphasizes data-driven decision-making, smart charging, renewable energy integration, digital fleet management, fleet optimization, predictive analytics, and sustainable mobility to help organizations achieve measurable reductions in fuel costs, operating expenses, greenhouse-gas emissions, and fleet-related carbon footprints.

Course Duration

5 days

Course Objectives

By the end of the course, participants will be able to:

1. Develop a strategic electric fleet transition roadmap aligned with business and sustainability objectives.
2. Assess fleet electrification readiness using operational, financial, and infrastructure criteria.
3. Calculate EV Total Cost of Ownership (TCO) and compare EVs with conventional vehicles.
4. Evaluate EV range, battery capacity, charging requirements, and vehicle suitability.
5. Design scalable EV charging infrastructure and smart-charging strategies.
6. Analyze fleet telematics and mobility data to identify electrification opportunities.
7. Apply route optimization and energy-management strategies to improve EV efficiency.
8. Develop CAPEX, OPEX, ROI, and lifecycle-cost models for fleet electrification.
9. Integrate renewable energy, solar charging, energy storage, and grid management into fleet strategies.
10. Manage battery lifecycle, degradation, second-life applications, and recycling considerations.
11. Address driver engagement, workforce adoption, change management, and operational transformation.
12. Establish ESG, carbon reduction, Scope 1 emissions, and net-zero performance metrics.
13. Build a practical EV fleet business case and implementation plan for organizational deployment.

Target Audience

1. Fleet Managers and Fleet Directors
2. Transport and Logistics Managers
3. Sustainability and ESG Professionals
4. Energy and Infrastructure Managers
5. Mobility and EV Program Managers
6. Supply Chain and Operations Professionals
7. Government and Public-Sector Transport Officials
8. Business Leaders, Consultants, and Project Managers

Course Modules

Module 1: Electric Fleet Transition Fundamentals

- EV technology and **fleet electrification trends**
- ICE-to-EV transition drivers and market dynamics

- **Decarbonization and net-zero transportation**
- EV categories, applications, and fleet suitability
- Developing an **electrification vision and strategy**
- **Case Study:** A regional delivery company evaluates the transition of its urban delivery fleet from diesel vans to battery-electric vehicles.

Module 2: Fleet Electrification Readiness & Vehicle Selection

- Fleet profiling and operational data analysis
- **Duty-cycle and route suitability assessment**
- EV range, payload, charging, and performance requirements
- Vehicle selection and procurement strategies
- **Total Cost of Ownership (TCO)** comparison
- **Case Study:** A logistics operator uses route and mileage data to determine which vehicles should be electrified first.

Module 3: EV Charging Infrastructure Strategy

- AC and DC charging technologies
- Depot, workplace, destination, and public charging
- **Smart charging and load management**
- Grid capacity and electrical infrastructure planning
- Scalable charging-network design
- **Case Study:** A 100-vehicle depot develops a phased charging strategy while avoiding expensive grid-capacity upgrades.

Module 4: Financial Modelling & Business Case Development

- **CAPEX vs. OPEX** analysis
- EV TCO and lifecycle-cost modelling
- Fuel and electricity-cost comparisons
- ROI, payback period, and investment analysis
- Incentives, financing, leasing, and procurement models
- **Case Study:** A fleet owner compares diesel and electric vehicles over a seven-year operating lifecycle to determine the optimal investment strategy.

Module 5: Energy Management, Smart Charging & Renewable Integration

- Fleet energy-demand forecasting
- **Smart charging and peak-load management**
- Time-of-use electricity strategies
- Solar PV and battery energy-storage integration
- Vehicle-to-Grid (**V2G**) and bidirectional charging concepts
- **Case Study:** A corporate fleet combines solar generation, battery storage, and smart charging to reduce electricity costs and grid dependency.

Module 6: EV Operations, Telematics & Performance Optimization

- **Fleet telematics and real-time monitoring**
- Route and energy optimization
- Driver behavior and eco-driving

- Predictive maintenance and vehicle uptime
- EV performance dashboards and KPIs
- **Case Study:** A transport company uses telematics data to optimize routes, charging schedules, energy consumption, and vehicle utilization.

Module 7: Battery Lifecycle, Sustainability & Risk Management

- Battery chemistry, capacity, and degradation
- **Battery health monitoring and predictive analytics**
- Battery warranties and lifecycle management
- Second-life battery applications
- Battery recycling and circular-economy strategies
- **Case Study:** A fleet operator develops a battery lifecycle plan covering vehicle deployment, degradation monitoring, second-life opportunities, and end-of-life recycling.

Module 8: Implementation, Change Management & Net-Zero Strategy

- Building an **EV fleet transition roadmap**
- Pilot projects and phased implementation
- Driver training and stakeholder engagement
- ESG, carbon accounting, and emissions reporting
- Scaling from pilot to **enterprise-wide electrification**
- **Case Study:** A multinational organization launches a pilot EV fleet, measures operational and carbon outcomes, and creates a five-year electrification rollout plan.

Training Methodology

- Interactive lectures and presentations.
- Group discussions and brainstorming sessions.
- Hands-on exercises using real-world datasets.
- Role-playing and scenario-based simulations.
- Analysis of case studies to bridge theory and practice.
- Peer-to-peer learning and networking.
- Expert-led Q&A sessions.
- Continuous feedback and personalized guidance.

Register as a group from 3 participants for a Discount

Send us an email: info@fineskilltrainingcenter.org or call *+254769199797*

Certification

Upon successful completion of this training, participants will be issued with a globally- recognized certificate.

Tailor-Made Course

We also offer tailor-made courses based on your needs.

Key Notes

a. The participant must be conversant with English.

b. Upon completion of training the participant will be issued with an Authorized Training Certificate

c. Course duration is flexible and the contents can be modified to fit any number of days.

d. The course fee includes facilitation training materials, 2 coffee breaks, buffet lunch and A Certificate upon successful completion of Training.

e. One-year post-training support Consultation and Coaching provided after the course.

f. Payment should be done at least a week before commence of the training, to Fineskill Training Center account, as indicated in the invoice so as to enable us prepare better for you.

Upcoming Scheduled Sessions

Start Date	End Date	Location	Price
23 Nov 2026	27 Nov 2026	Online	$1,000
23 Nov 2026	27 Nov 2026	Physical	$1,500
23 Nov 2026	27 Nov 2026	Physical	$3,000
23 Nov 2026	27 Nov 2026	Physical	$3,000
23 Nov 2026	27 Nov 2026	Physical	$6,000
23 Nov 2026	27 Nov 2026	Physical	$4,500
23 Nov 2026	27 Nov 2026	Physical	$6,000
23 Nov 2026	27 Nov 2026	Physical	$6,000

Ready to enroll or request a customized program? Book online or contact us:

Register Online Now

Email: info@fineskilltrainingcenter.com | Website: www.fineskilltrainingcenter.com