

EVs Performance Planning for e-Commerce and Freight Delivery



Global Online Training and
Certification Program

Organized by



Certification by



**Registrations are
open !!**

Some key challenges faced by EV Operators in last mile Delivery:

1. Limited EV models, makes and suppliers available in the market
2. Lack of knowledge in converting business requirements into detailed Vehicle Technical Specifications (VTS)
3. Procured EVs not meeting important business performance and robustness SLAs
4. EVs Fleet planning and charging not optimized for operational SLAs and ROI

What will you learn here?

- In-depth knowledge on 'Planning of EV Fleet for Specific Objectives'**
- Battery and Charging Technology selection, overall system requirements planning, and economics**
- Unique hands-on Modeling for Realtime problem solving and building future scenarios for desired EV Fleet operations using Excel, and Fleet Planning tool**

Our Uniqueness



Industry Valued Certification
Joint Certification with **ASDC**
on completion



Global EV Experts
Trainers worked on global
EVs & e-Bus fleet programs



Hands-on Modeling
Modeling Tutorials and
Handholding



Live VC Support
Join & resolve your queries
from anywhere



Easy time outside work
Virtual classes in evening (IST)



**Attend Virtual Class OR
Learn at your Own Pace**
Theory sessions and Modeling
Tutorials

EVs Performance Planning for e-Commerce and Freight Delivery

PROGRAM SCHEDULE

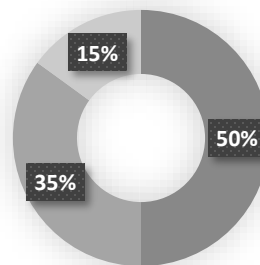
Module	#	Session Topic	Duration (Hour)
1. Basics of EV Fleets	1	Electric Vehicle Basics	1
	2	E-Commerce & Other Delivery Fleets	1
2. Fleet Modeling	3	Vehicle Energy Modeling	1
	4	1-Vehicle 1-Route Scheduling	1
	5	Battery Selection & Sizing	1
	6	1-Route Fleet Scheduling	1
	7	Charger Selection & Sizing	1
3. EV Fleet Disruptions	8	Vehicle Disruptions	1
	9	Route Disruptions	1
	10	Power Disruptions	1
	11	Technological Disruption	1
4. Cost Analysis	12	Change in Regulations & Policies	1
	13	Capital & Operating Expenses	1
5. EV Adoption in Existing Fleets	14	Total Cost of Ownership	1
	15	Vehicle Specs from Requirements	1
	16	New EVs vs ICE Vehicle Conversion	1
	17	Mixed Fleet Dynamics	1

#	Modeling & Planning Tutorial
1	Introduction & Energy Modeling
2	1-Vehicle & 1-Route Scheduling
3	1-Route Fleet Scheduling
4	Modeling Disruptions
5	Modeling Total Cost of Ownership



Evaluation	Final Exam
	Project Review

17 Theory sessions, each 1 hour You can join the live online batch, or enroll for self-paced program	5 Modeling sessions Hands-on modeling and simulation assignments using Fleet planning tool
4 Assignments 1 Final assessment	Certification after course completion based on <ul style="list-style-type: none"> • Mini-project work • Assignments • Final assessment



Evaluation Criteria

- Mini-Project work
- MCQ based assessment
- Assignments

Key learnings from the training program

- ✓ Holistic understanding of EV energy modeling
- ✓ Selection of battery and charging technology
- ✓ Route and network planning considerations
- ✓ Performance parameters for EV Fleet Optimizations
- ✓ Learn about risks of vehicle/charger breakdowns
- ✓ Understand the EV fleet relevant policies
- ✓ Diagnostic of the existing EV Fleet for effective operations

EVs Performance Planning for e-Commerce and Freight Delivery

Our Trainers



Mr. Rahul Bagdia
 MD, pManifold EV Academy

Academics: Dual Masters in Robotics & Control from University of Michigan, Ann Arbor, US

20+ years of extremely diverse global experience in various industries like energy & utilities, electric vehicles, health & life sciences, banking & finance and education. Has worked with Government of India for Electric Vehicle Program Management Cell in areas of policy making, EV infrastructure development, distribution networks and power generation. He has been instrumental in supporting Policy and Technical Standards Development for Electric Vehicles for various countries.



Mr. Vikrant Vaidya
 CEO, pManifold EV Academy

Academics: Master in Energy Systems Engineering from University of Michigan, Ann Arbor, US

20+ years of experience in vehicle development & integration - IC Engine, Hybrid Electric as well as Battery Electric Vehicles - for global platforms of Tata Motors, General Motors, Jaguar-Land Rover and Groupe PSA's upcoming BEV for emerging markets. Expertise in product development through powertrain-vehicle integration, model-based controller development and powertrain-in-vehicle calibration. A recruiter & technical trainer for 10+ years & has three records of the invention in hybrid powertrain, battery controls & repurposing.



Mr. Vikrant Garud
 Master Trainer
 pManifold EV Academy

Academics: Masters in Automotive Materials and Manufacturing, ARAI Academy Pune

7+ years of experience as a Researcher, Author cum eminent academician. Expertise in advanced and Smart automotive materials and working on implementation of it for various automotive applications. Have worked on various projects of CVRDE and VRDE, published 20+ research articles in the field of various automotive applications. Also, listed in FISITA's world database of experts and part of editorial board member of Elsevier since last 3 years.

And other industry experts.....

Program Formats:

- Self Paced
- Live Online
- Customized

Who shall enroll?

- PTAs staff,
- e-Bus OEMs and Manufacturers
- e-Bus Operators, Infra services providers
- Working Professionals, Consultants, Researchers
- Students: e-Mobility enthusiasts, Transport Engineers, Transport Planners And others

Click here to
 Enroll !



Win scholarship
 of up to 100%

Apply
 here

About Us

pManifold EV Academy:

A knowledge share vertical of 'pManifold Business Solutions PVT LTD', is working globally to build EV System skills among practitioners, EV enthusiasts, academia's, etc. Providing a wide range of live online, hybrid, and self paced training programs in product development to planning aspects, etc.

It is also working at organizational (B2B) level to deploy customized training programs.

ASDC:

ASDC is the first Sector Skill Council of India in Automobile sector and is founded to build a sustainable skill development ecosystem to ensure adequate availability of quality workforce to meet the automotive industry requirements. Currently, ASDC is working curriculum development, Standardisation, Training of trainers as well as certification.