EVs Performance Planning
for e-Commerce and Freight Delivery

Live+ Online Training and Certification Program

Organized by

pMANIFOLD
EV ACADEMY

Certification by

ASDC
AUTOMOTIVE SKILLS DEVELOPMENT COUNCIL

Batch Start from 17th May 2021

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 optimised 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
Weekly practice sessions using Fleet Planning tool
© pManifold's in-house Excel based tool

Live Online Delivery + Video Recordings
Join & learn from anywhere, also 2 months of content access

Easy time outside work
Theory sessions in evenings on alternate weekdays and practice sessions in afternoon on Saturdays

Organizer

pMANIFOLD
EV ACADEMY

Certification Partner

ASDC
AUTOMOTIVE SKILLS DEVELOPMENT COUNCIL

EVs Performance Planning for e-Commerce and Freight Delivery

Program Schedule

Week	Module	Session Topic	Day	Duration [hrs]	Mode of Delivery
Week 1	1. Basics of EV Fleets	Electric Vehicle Basics	Monday	1	Theory
		E-Commerce & Other Delivery Fleets	Wednesday	1	Theory
	2. Fleet Modeling	Vehicle Energy Modeling	Friday	1	Theory
		Introduction & Energy Modeling	Saturday	2	Practical
Week 2	2. Fleet Modeling	1-Vehicle 1-Route Scheduling	Monday	1	Theory
		Battery Selection & Sizing	Wednesday	1	Theory
		1-Route Fleet Scheduling	Friday	1	Theory
		1-Vehicle & 1-Route Scheduling	Saturday	2	Practical
Week 3	2. Fleet Modeling	Charger Selection & Sizing	Monday	1	Theory
	3. EV Fleet Disruptions	Vehicle Disruptions	Wednesday	1	Theory
		Route Disruptions	Friday	1	Theory
		1-Route Fleet Scheduling	Saturday	2	Practical
Week 4	3. EV Fleet Disruptions	Power Disruptions	Monday	1	Theory
		Technological Disruption	Wednesday	1	Theory
		Change in Regulations & Policies	Friday	1	Theory
		Modeling disruptions	Saturday	2	Practical
Week 5	4. Cost Analysis	Capital & Operating Expenses	Monday	1	Theory
		Total Cost of Ownership	Wednesday	1	Theory
	5. EV Adoption in Existing Fleets	Vehicle Specs from Requirements	Friday	1	Theory
		Modeling Total Cost of Ownership	Saturday	2	Practical
Week 6	5. EV Adoption in Existing Fleets	New EVs vs ICE Vehicle Conversion	Monday	1	Theory
		Mixed Fleet Dynamics	Wednesday	1	Theory
	Evaluations	Project Internal Review	Friday	1	Presentation
Week 7	Evaluations	1-hr e-Proctored MCQ based exam	Monday	1	Assessment
		Project Evaluation	Wednesday	2	Presentation
Week 8	Evaluations	Project Submission	Tuesday		Submission

17 Theory sessions
Each session of 1-hour
In evening at 7:30 PM (IST)

5 Practical sessions
Each session of 2-hour
Every Saturday at 2:00 PM (IST)
Hands-on modeling and simulation practices using Excel based Fleet Planning tool

5 Assignments

1 Final assessment
1-hour online e-proctored MCQ based exam

Certification after course completion based on
• Attendance
• Assignment
• Mini Project
• Final assessment

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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 Optimisations

✓ Learn about risks of vehicle/charger breakdowns
✓ Understand the EV fleet relevant policies
✓ Diagnostic of the existing EV Fleet for effective operations

Our Trainers

Mr. Rahul Bagdia

Managing Director and Partner, pManifold

20+ years global experience and leading e-Mobility and Utilities Practice at pManifold. Have worked with National and City Governments in India and other developing countries supporting e-Mobility strategic road maps, regulations, policies, standards, charging infrastructure development, new business models, and pilots, including e-Buses fleet assessment with multiple operators.

Mr. Vikrant Vaidya

Partner and Lead, EV Academy, pManifold

20+ years experience in global automotive design and product development on multiple EVs and Hybrid vehicle platforms, specialising in model-based design, calibration, testing and system integration; a Six-Sigma Green Belt and a Master Trainer for EVs model-based development and system engineering.

And other industry experts…….

Eligibility:
- PTAs staff, Freight Transporters
- EV (2W, 3W) OEMs and Manufacturers
- Fleet Operators, e-Commerce Sector
- Working Professionals, Consultants, Researchers
- Students: e-Mobility enthusiasts, Transport Engineers, Transport Planners, and others

Fees:
Professionals: INR 35,000 (29,660 + 18% GST)
Students: INR 24,500 (20,762 + 18% GST)
Prices are Inclusive of GST
Following group discount is available
- 2 candidates= 10%
- 3 candidates= 15%
- 4 candidates= 20%
- 5 candidates or above= 25%

Click here to Enroll !

Win scholarship of up to 100%

Apply here

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About Us

pManifold:

A Strategic Research and Consulting company, enabling Smart and Clean Tech Markets development and growth in Energy, E-Mobility, Solar, LVDC, Enviro and Urban sectors. It's EV Training Practice specialized in niche EV system-oriented courses to help the industry build new skills and drive improved EV adoption & experience.

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.