

e-Truck Systems Integration - Pure Electric & Fuel Cell



Organizer



Certification Partner



**Registrations
are open !!**

Global Online Training & Certification Program

Planning to electrify trucks fleet?
Wondering How and where to begin?
Which truck and battery?
Which charging technology?

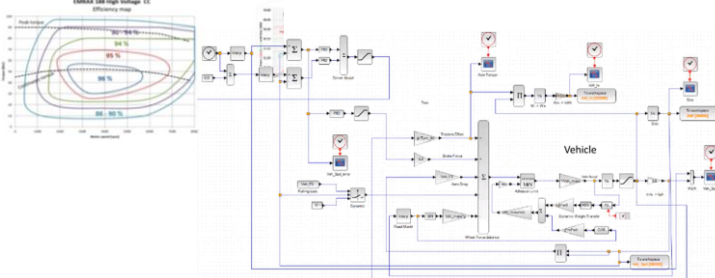
What Infrastructure?
Which routes?
Which vehicles?
What risks and cost?

You can learn here:

- Understanding elements of e-Truck ecosystem and their interlinkages
- E-Trucks, 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 e-Truck operations using Excel, Scilab, and EV Fleet Planning tool

Motor	Motor Speed (rpm)										Speed (km/h)	
Efficiency Map	0	500	1000	1500	2000	2500	3000	3500	4000	4500	5000	7200
0	95.0%	95.0%	94.7%	94.2%	93.5%	92.5%	91.2%	89.5%	87.5%	85.2%	82.5%	79.5%
10	95.0%	95.0%	94.7%	94.2%	93.5%	92.5%	91.2%	89.5%	87.5%	85.2%	82.5%	79.5%
20	95.0%	95.0%	94.7%	94.2%	93.5%	92.5%	91.2%	89.5%	87.5%	85.2%	82.5%	79.5%
30	95.0%	95.0%	94.7%	94.2%	93.5%	92.5%	91.2%	89.5%	87.5%	85.2%	82.5%	79.5%
40	95.0%	95.0%	94.7%	94.2%	93.5%	92.5%	91.2%	89.5%	87.5%	85.2%	82.5%	79.5%
50	95.0%	95.0%	94.7%	94.2%	93.5%	92.5%	91.2%	89.5%	87.5%	85.2%	82.5%	79.5%
60	95.0%	95.0%	94.7%	94.2%	93.5%	92.5%	91.2%	89.5%	87.5%	85.2%	82.5%	79.5%
70	95.0%	95.0%	94.7%	94.2%	93.5%	92.5%	91.2%	89.5%	87.5%	85.2%	82.5%	79.5%
80	95.0%	95.0%	94.7%	94.2%	93.5%	92.5%	91.2%	89.5%	87.5%	85.2%	82.5%	79.5%
90	95.0%	95.0%	94.7%	94.2%	93.5%	92.5%	91.2%	89.5%	87.5%	85.2%	82.5%	79.5%
100	95.0%	95.0%	94.7%	94.2%	93.5%	92.5%	91.2%	89.5%	87.5%	85.2%	82.5%	79.5%

- **Excel as calculation tool**
- **Scilab as Modeling & Simulation tool**



Our Uniqueness



Industry Valued Certification
Joint Certification with **ASDC** on course qualification



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



Hands-on Modeling
Modeling Tutorials and Handholding (on Excel, SciLab, and Fleet-Planner)



Live VC Support
Join & resolve your queries from anywhere



Learn at your own Pace
Theory session and Modeling Tutorials, to learn in a way you like



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

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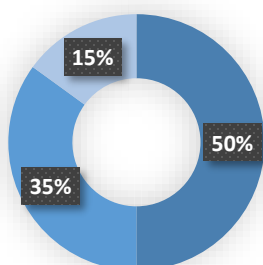
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PROGRAM STRUCTURE

Module	#	Theory Topic	#	Modeling Tutorial
1. Electric Truck Basics	1	Course Introduction & Truck Classifications	1	Introduction to Modeling Tools
	2	Basics of e-Truck M & HD Applications		
2. Electric Truck Modeling	3	Batteries for e-trucks	2	Battery Pack Sizing & Modeling
	4	Traction & Auxiliary Motors for e-trucks		
	5	Truck Power Requirements	3	Motor Selction & Modeling
	6	Truck Power Train Integration		
3. Hydrogen Technology	7	Battery Management System	4	Vehicle Specifications & Modeling
	8	Charger Selection & Sizing		
	9	Charging Infrastructure		
4. Cost Modelling	10	Capital & Operational Expenditures, TCO	5	BMS and Charging Modeling
	11	Fuel Cells for e-trucks		
	12	Hydrogen Infrastructure	6	TCO Modeling

Evaluation	Final Exam
	Project Review

12 Theory Sessions With Modeling Tutorials Each video is of approx. 30 minutes	Live Support sessions for model troubleshooting on Every other Saturday at 15:00 IST	4 Assignments 1 Final assessment 1-hour online e-proctored MCQ based exam by ASDC	Certification after course completion based on <ul style="list-style-type: none"> • Assignment • Mini Project • Final MCQ-based Assessment
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Evaluation Criteria

- Mini-Project work
- MCQ based assessment
- Assignments

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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.

Program Formats:

- Self Paced
- Live Online
- Customized

Who shall enroll?

- e-Truck OEMs and Manufacturers
- e-Truck Fleet Operators, Infra services providers
- Working Professionals, Consultants, Researchers
- Students: e-Mobility enthusiasts, Transport Engineers, Transport Planners
- Etc.

**Click here
 to Enroll !**



Up to 100% Scholarship available for Live online batches

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.