



NEW

GARAGE PROGRAM

A Global Live Online + Offline Workshop

Electric Vehicle Retrofit

Virtual sessions to learn
Vehicle Systems Engineering



In-Garage Visits to
Work on Vehicle Retrofitment

Organized by:
PEV Academy
pManifold Group

Certification by:
ASDC
AUTOMOTIVE SKILLS DEVELOPMENT COUNCIL

**Virtual modeling + Actual doing on
1960's VW Beetle**
(Classic car)

Conversions into Pure Electric



LIVE HD
STREAMING From our Workshop at
Nagpur
Maharashtra, India 


Learn


1. Requirements → Vehicle Specs → Electric Power Train (EPT)
2. Virtual Modeling (Scilab) for selection & sizing EPT
3. Supplier selection & Procurement
4. Packaging, Integration & Calibration in Garage
5. Drive-for-validation

Program Uniqueness

 **In-garage Engineering work**
Practice on actual vehicle model from basics

 **Hands-on Modeling**
Learn subsystem sizing for a vehicle doing virtual modeling practices

 **Learn from Global EV Experts**
Trainers worked on global EV platforms

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

PROGRAM SCHEDULE

Session	Session/Activity/Task	Duration [Hrs.]	Mode of Delivery
1	Introduction & Vehicle Specifications (existing ICEV)	2	Live Online
2	Vehicle SciLab Modelling-1	2	Live Online
3	Vehicle SciLab Modelling-2	2	Live Online
4	Vehicle SciLab Modelling-3	2	Live Online
5	Design iterations to generate sensitivity data	2	Live Online
6	Initial vehicle specification (electric)	2	Live Online
7	Motor sizing & Gear Ratio Selection	2	Live Online
8	Battery sizing	2	Live Online
	Identifying suppliers and motor selection	–	
	Identifying suppliers and battery selection	–	
9	Finalization of vehicle specification (electric)	2	In-Garage
10	Packaging studies-1	2	In-Garage
11	Packaging studies-2	2	In-Garage
12	Powertrain integration - gear box and other physical matching	2	In-Garage
13	Actual vehicle conversion	2	In-Garage
14	Electronics integration and calibration	2	In-Garage
15	Vehicle shakedown and testing (and fixing) after conversion	2	In-Garage

NOTE- Upon receipt of the subsystems from supplier, the rest of the program will be forwarded

CONVENTIONAL
ICE



ELECTRIC



Our Trainers:



Mr. Vikrant Vaidya
Co-founder & 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. Rahul Bagdia
Co-founder & 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. Shreesh Deodhar
Founder & MD
Shreesh Auto Restorers

Academics: Diploma in Industrial Electronics, Nagpur University

15+ years of extremely diverse experience in various vehicle restoration. Dealing in all kinds of repairs to Hyundai Vehicles. Carrying out Restoration of Vintage Cars on Pan India Level. Off Roothing National Champion- 2015 organized by Mahindra and Mahindra. Strong knowledge on Business Transformation, Project Management, etc.

- Eligibility:**
- Vehicle Restorers
 - Automobile experts
 - EV enthusiasts
 - Working Professionals, Consultants, and Researchers
 - Students
 - Vehicle Manufacturers
 - Etc.

Fees: Starting from \$ 135 (taxes extra)

Following group discount is available

- 2 candidates= 10%
- 3 candidates= 15%
- 4 candidates= 20%
- 5 candidates or above= 25%

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For more details, reach us at- +91 72496 85682 | evacademy@pManifold.com

Limited seats available.
Enrol Now!

About Us

pManifold EV Academy:

Affiliated to 'pManifold Business Solutions pvt. Ltd.' 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.

Address: Plot No. 20, Purohit Layout, 2nd Floor, North Ambazari Road, Nagpur – 440033



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.