



Ministry of Micro, Small and Medium Enterprises,
Government of India



MSME TECHNOLOGY CENTRE, BENGALURU

MINISTRY OF MICRO, SMALL & MEDIUM ENTERPRISES, GOVT. OF INDIA

KIADB Industrial Estate, Devanahalli, Bengaluru

<https://www.msmechblr.org/>

BRIEF DESCRIPTION OF TRAINING PROGRAMME

EV CHARGING STATION & LITHIUM-ION BATTERY BUSINESS

How to Start your own EV Business

About the training Government of India has undertaken multiple initiatives to promote manufacturing and adoption of electric vehicles in India. With the support of the Government, electric vehicles have started penetrating in the Indian Market. However, availability of adequate Charging Infrastructure is one of the key requirements for accelerated adoption of electric vehicles in India. It is proposed to encourage this by laying down an enabling framework.

Objective

- To enable faster adoption of electric vehicles in India by ensuring safe, reliable, accessible and affordable Charging Infrastructure and eco-system
- To promote affordable tariff chargeable from EV owners and Charge Stations Operators/Owners
- To generate employment/income opportunities for small entrepreneurs
- To proactively

support creation of EV Charging Infrastructure in the initial phase and eventually create market for EV Charging business • To encourage preparedness of Electrical Distribution System to adopt EV Charging Infrastructure, Introduction of Lithium-ion battery

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- To encourage preparedness of Electrical Distribution System to adopt EV Charging Infrastructure, Introduction of Lithium-ion battery

Topics to be covered:

- Choice of battery for EV
- Introduction of Lithium-ion battery
- Model of battery
- battery pack design for Electric Vehicle and Hybrid Electric Vehicle
- Charging and discharging for EV application
- battery capacity calculation for 2-wheeler, 3-wheeler and 4-wheeler

- Introduction to Lithium-ion battery management
- How Lithium ion cells work and what's inside them
- Battery Management Systems (BMS) technology basics
- Battery technology and preliminary analysis
- How to enhance your career in the Battery technology
- EV charging Stations & Technology
- Type of charging station, Implementation Mechanism

- Electric Vehicles market in India and Globe

- Few Models of electric vehicles – price, speed, mileage

- Basic working of Electrical vehicle , EV vs BS6

- Electric vehicle policy - state/central

- Business models in EV market

- Solar-powered EV Charging Stations Technology

- Scope, Retro Fitting Concept, Categories & Kit Sourcing,

- Approval & Permission of RTO registration

- EV Stations Infrastructures & Business Opportunities

- Public Charging Infrastructure requirements
- Locations of Public Charging Stations (PCS)
- Database of Public EV Charging Stations
- Tariff rate for Supply Electricity to EV PCS
- Viability of EVs in India: A Public Opinion Survey
- Case Studies of charging stations and EV maintenance
- Battery Swapping Station
- Impact on Charging Infrastructure
- EV Charging Business Model
- Business Opportunities/Models for EV Charging stations/ Rate Contract/
Land Leasing etc.
- Challenges in the EV market

- Categories Based of Electric Vehicles
- Charging Stations/ Loads/ kW/ kM/ Power Capacity ranges etc.

Date- 30 & 31 March, 2024 (2 Days, 5 to 8.30 PM)

1) Course Fee: Rs. 3000/-

FOR MORE DETAILS PLEASE CONTACT:

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