EV Policy & Public Charging Infrastructure Planning Training Course

Professional Development Training Course Outline

Category	Public Sector Innovation	**Duration**	10 Days
Base Fee	$3,000 USD	**Delivery Mode**	Online / On-site Hybrid

Course Introduction

The transition to electric vehicles (EVs) is transforming urban mobility and energy ecosystems globally. Governments, municipalities, and energy providers are increasingly focusing on developing robust EV policies and strategically planning public charging infrastructure to meet sustainability goals and reduce carbon emissions. EV Policy & Public Charging Infrastructure Planning Training Course provides a comprehensive roadmap for understanding regulatory frameworks, policy incentives, grid integration, and technological solutions essential for effective EV adoption and public charging deployment. Participants will gain practical insights into EV market dynamics, infrastructure planning, stakeholder engagement, and emerging trends that are shaping the future of sustainable transportation.

As EV adoption accelerates, planners, policymakers, and industry professionals must navigate complex challenges such as energy demand management, equitable access to charging stations, and integration with renewable energy sources. This course emphasizes data-driven planning, smart grid utilization, and best practices in infrastructure deployment. Through interactive modules, real-world case studies, and scenario-based exercises, participants will develop actionable strategies to optimize EV policy outcomes and create scalable, future-proof public charging networks.

Programme Curriculum

EV Policy & Public Charging Infrastructure Planning Training Course

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Course Objectives

1. Understand global and regional EV policy frameworks and regulations.
2. Analyze public charging infrastructure requirements and standards.
3. Evaluate energy grid integration and demand management strategies.
4. Develop incentive-based EV adoption policies.
5. Apply data analytics for EV adoption forecasting and infrastructure planning.
6. Design equitable public charging networks for urban and rural areas.
7. Assess technology options for AC and DC fast charging stations.
8. Implement sustainable financing and business models for charging infrastructure.
9. Integrate renewable energy solutions with EV charging systems.
10. Monitor and evaluate EV policy outcomes and infrastructure performance.
11. Apply stakeholder engagement and public-private partnership strategies.
12. Address cybersecurity and safety considerations for EV infrastructure.
13. Develop strategic roadmaps for nationwide EV adoption.

Organizational Benefits

- Improved strategic planning for EV deployment and infrastructure.
- Enhanced compliance with government policies and regulations.
- Optimized investment in EV charging networks.
- Strengthened stakeholder collaboration and public-private partnerships.
- Better alignment with sustainability and net-zero goals.
- Enhanced data-driven decision-making capabilities.
- Increased public confidence in EV adoption initiatives.

- Reduced operational risks in infrastructure planning and deployment.
- Integration of renewable energy and smart grid solutions.
- Competitive advantage in emerging mobility and clean energy sectors.

Target Audiences

1. Government policymakers and regulators.
2. Municipal urban planners and transport authorities.
3. Energy providers and utility managers.
4. EV infrastructure developers and operators.
5. Sustainability consultants and environmental analysts.
6. Public-private partnership managers.
7. Smart city and mobility solution designers.
8. Academic researchers and students in energy and transportation sectors.

Course Duration: 10 days

Course Modules

Module 1: Introduction to EV Policies and Regulatory Frameworks

- Global EV policy trends and frameworks
- Regional incentives and regulations
- Case study: Norway’s EV adoption policy success
- Policy impact assessment techniques
- Benchmarking EV policy outcomes
- Interactive group discussion

Module 2: EV Market Analysis and Forecasting

- EV market growth and adoption trends
- Data analytics for adoption forecasting
- Scenario planning for EV uptake
- Policy influence on consumer behavior
- Market segmentation and demand assessment
- Case study: California’s EV market strategy

Module 3: Public Charging Infrastructure Planning

- Types of charging stations: AC, DC, fast charging
- Site selection and spatial planning
- Load analysis and grid impact
- Design for urban and rural deployment
- Cost-benefit analysis for infrastructure rollout
- Case study: Shenzhen’s public charging network

Module 4: Energy Grid Integration and Demand Management

- Smart grids and EV charging coordination
- Peak load management strategies
- Vehicle-to-grid (V2G) technologies
- Renewable energy integration
- Energy storage solutions
- Case study: Netherlands V2G pilot project

Module 5: Incentive Programs and Policy Implementation

- Tax credits, rebates, and subsidies
- Fleet electrification incentives
- Public-private collaboration frameworks
- Monitoring and evaluation of incentive effectiveness
- Regulatory compliance and reporting
- Case study: UK EV incentive programs

Module 6: Technology and Standards for EV Charging

- Charging protocols and interoperability
- AC vs DC charging technologies
- Future trends in charging tech
- Safety and reliability standards
- Innovative solutions in smart charging
- Case study: Japan’s CHAdeMO standard deployment

Module 7: Sustainable Financing and Business Models

- Funding models for public charging infrastructure

- Revenue streams and ROI analysis
- PPP models for infrastructure deployment
- Risk mitigation strategies
- Investment planning for large-scale EV networks
- Case study: India’s EV charging finance strategy

Module 8: Stakeholder Engagement and Public Communication

- Engaging government, industry, and communities
- Public awareness campaigns
- Collaboration with NGOs and civic organizations
- Managing public feedback and adoption barriers
- Digital platforms for stakeholder interaction
- Case study: Singapore’s community engagement program

Module 9: Cybersecurity and Safety in EV Infrastructure

- Cyber threats and data privacy issues
- Safety regulations and standards
- Risk assessment for charging stations
- Emergency response planning
- Compliance monitoring and auditing
- Case study: Cybersecurity implementation in US charging networks

Module 10: Policy Evaluation and Performance Metrics

- KPI development for EV policies
- Infrastructure utilization monitoring
- Cost-effectiveness analysis
- Feedback loops for policy adjustments
- Benchmarking against global best practices
- Case study: Germany’s EV infrastructure monitoring

Module 11: Integration of Renewable Energy

- Solar, wind, and hybrid solutions
- Smart energy management systems

- Reducing carbon footprint with EV charging
- Case study: California’s solar-powered charging stations
- Economic feasibility analysis
- Future integration trends

Module 12: Strategic Roadmapping for EV Adoption

- Long-term EV adoption strategies
- Policy alignment with national goals
- Risk assessment and mitigation
- Roadmap visualization techniques
- Scenario-based strategic planning
- Case study: China’s national EV roadmap

Module 13: Emerging Trends and Innovations

- Autonomous EVs and smart mobility
- Wireless charging and battery swapping
- Urban mobility planning integration
- Global best practices in EV infrastructure
- Innovation adoption frameworks
- Case study: South Korea’s EV innovation ecosystem

Module 14: Equity and Accessibility in EV Infrastructure

- Ensuring access for underserved populations
- Inclusive site planning
- Socioeconomic considerations
- Regulatory frameworks for equitable access
- Public engagement and feedback
- Case study: EV accessibility in low-income urban areas

Module 15: Capstone Case Study and Scenario Planning

- Integrated scenario planning exercise
- Policy and infrastructure simulation
- Stakeholder engagement simulation

- Risk assessment and mitigation strategy development
- Presentation and peer review of strategic plans
- Case study: Global comparative analysis of EV adoption strategies

Training Methodology

- Interactive lectures with expert facilitators
- Real-world case studies and scenario analysis
- Group discussions and peer-to-peer learning
- Hands-on exercises for infrastructure planning
- Simulation exercises for policy evaluation
- Digital tools and analytics workshops

Register as a group from 3 participants for a Discount

Send us an email: info@fineskilltrainingcenter.com or call *+254769199797*

Certification

Upon successful completion of this training, participants will be issued with a globally- recognized certificate.

Tailor-Made Course

We also offer tailor-made courses based on your needs.

Key Notes

a. The participant must be conversant with English.

b. Upon completion of training the participant will be issued with an Authorized Training Certificate

c. Course duration is flexible and the contents can be modified to fit any number of days.

d. The course fee includes facilitation training materials, 2 coffee breaks, buffet lunch and A Certificate upon successful completion of Training.

e. One-year post-training support Consultation and Coaching provided after the course.

f. Payment should be done at least a week before commence of the training, to FINESKILL TRAINING CENTER account, as indicated in the invoice so as to enable us prepare better for you.

Upcoming Scheduled Sessions

Start Date	End Date	Location	Price
07 Sep 2026	18 Sep 2026	Physical	$3,000

Start Date	End Date	Location	Price
14 Sep 2026	25 Sep 2026	Physical	$3,000
21 Sep 2026	02 Oct 2026	Physical	$3,000
28 Sep 2026	09 Oct 2026	Physical	$3,000
05 Oct 2026	16 Oct 2026	Physical	$3,000
12 Oct 2026	23 Oct 2026	Physical	$3,000
19 Oct 2026	30 Oct 2026	Physical	$3,000
26 Oct 2026	06 Nov 2026	Physical	$3,000

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