

I-TECC

International – Training Education Certification Consulting

“Industry Controlled Perpetual Training for the Safety and Efficiency of Operators and Roadway Workers”.

Hybrid/EV (Electric Vehicle) Training

Syllabus

Eight (8) Hours
Classroom and Hands-On



Course Overview:

This comprehensive eight-hour training program is designed for operators and roadway workers involved in the handling, towing, and recovery of hybrid and electric vehicles (EVs). The course combines classroom instruction with hands-on training to ensure participants are well-prepared to operate safely and efficiently in this evolving field.

Intended Participants:

- Towing and Recovery Operators
- Emergency Medical Services (EMS)
- Law Enforcement Personnel
- Transportation Professionals
- Fire Services

Course Duration:

Total Duration: 8 Hours

Format: Classroom and Hands-On Training

Syllabus Outline:

1. Introduction to Hybrid/EV Training

- Overview of the course objectives and importance
- Discussion on the growing prevalence of hybrid and electric vehicles

2. Operator Safety and Preparation Compliance

- Understanding safety regulations and compliance requirements
- Best practices for operator safety in hybrid/EV environments

3. Identification and Inspection of Hybrid, Electric, and Alternate Fueled Vehicles

- Key characteristics of hybrid and electric vehicles
- Inspection protocols for identifying vehicle types and their components

4. Understanding Vehicle Components and Theory

- Overview of hybrid and electric vehicle systems
- Explanation of key components (batteries, motors, etc.) and their functions

5. Personal Protection Equipment (PPE)

- Importance of PPE in hybrid/EV operations
- Recommended PPE for safe handling and operation

6. Vehicle Stabilization, Immobilization, and System Disablement

- Techniques for stabilizing and immobilizing hybrid and electric vehicles
- Procedures for disabling vehicle systems safely

7. Emergency Operations: Fire and Environmental Concerns

- Identifying potential fire hazards and environmental issues
- Emergency response protocols for hybrid/EV incidents

8. Hybrid and Electric Vehicle Handling and Storage Concerns

- Best practices for handling and storing hybrid and electric vehicles
- Safety considerations for long-term storage

9. Computer Overrides and Disablements

- Understanding vehicle computer systems and overrides
- Procedures for safely disabling vehicle electronics

10. Low Voltage Operations, Jump Starts, and Disconnects

- Techniques for safely performing low voltage operations
- Guidelines for jump-starting and disconnecting batteries

11. Recommended Winching and Relocation Procedures

- Best practices for winching and relocating hybrid and electric vehicles
- Use of appropriate equipment and techniques

12. Resistance Introduction, Rigging Use, and Ratings

- Introduction to resistance in towing and recovery
- Proper rigging techniques and equipment ratings
- Use of snatch blocks in operations

13. Transporting and Towing Recommendations

- Guidelines for light-duty lift and towing using wheel lifts
- Safe operation of dollies and their applications

14. Carrier/Flatbed/Rollback Operations

- Best practices for using carriers, flatbeds, and rollbacks
- Safety protocols for transporting hybrid and electric vehicles

15. Equipment Safety and Safety of the Motoring Public

- Ensuring safety for operators and the motoring public
- Importance of awareness and education in the towing and recovery industry

Conclusion:

- This syllabus provides a structured framework for the I-TECC Hybrid/EV Training program, ensuring that all critical topics related to the safe handling and operation of hybrid and electric vehicles are covered comprehensively.
- Recap of key concepts covered in the training
- Discussion on the importance of ongoing education and awareness in the industry

Additional Information:

- Participants will receive a certificate of completion.
- Networking opportunities with industry professionals.