



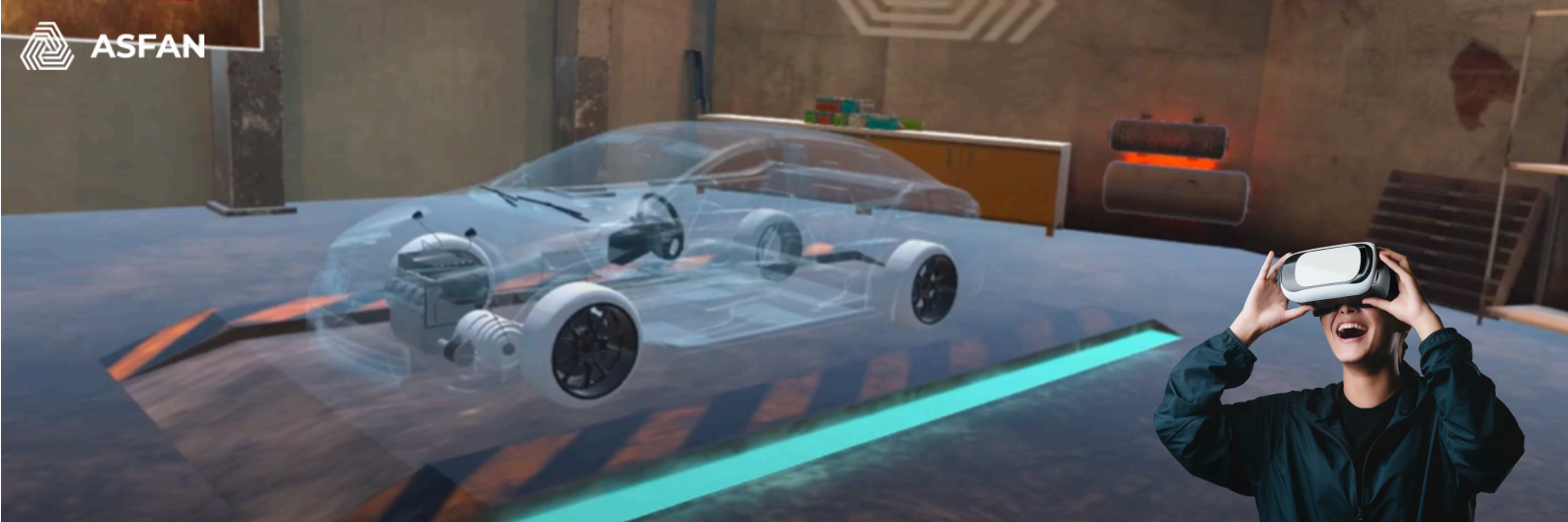
**ASFAN**



# **Virtual Reality Simulator for Electric Vehicle Maintenance**

**Comprehensive Training for the Future of  
Automotive Technology**

**[www.asfanco.com](http://www.asfanco.com)**



# The EV Simulator:

## A New Standard in Technical Training

ASFAN introduces a cutting-edge Virtual Reality (VR) training simulator specifically designed for electric vehicle (EV) maintenance and repair. Developed to address the growing demand for skilled EV technicians, this immersive training platform enables users to safely interact with realistic EV systems in a fully virtual workshop environment.

The simulator replicates real-world automotive components, tools, and diagnostic systems in a three-dimensional, interactive setting. It allows learners to explore vehicle structures, practice critical maintenance procedures, and master diagnostics without physical cars or equipment.

Compatible with standalone VR headsets and traditional computers, the ASFAN EV Simulator supports both on-site and remote training—making it an ideal solution for institutions, training centers, and corporate programs.

# Key Features

- **27 Comprehensive Scenarios**

Covers all essential EV systems: electrical, mechanical, diagnostics, safety, and charging.

- **Modular and Customizable**

Each scenario functions independently and can be tailored to specific training goals.

- **Built-In Safety Simulations**

Includes high-voltage safety protocols, battery handling, and PPE training in a controlled environment.

- **Realistic System Interaction**

Hands-on practice with diagnostic tools, CAN bus systems, motors, and charging stations.

- **Bilingual Content**

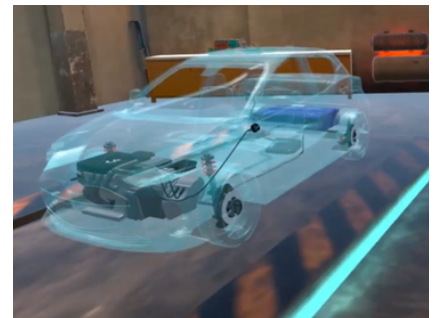
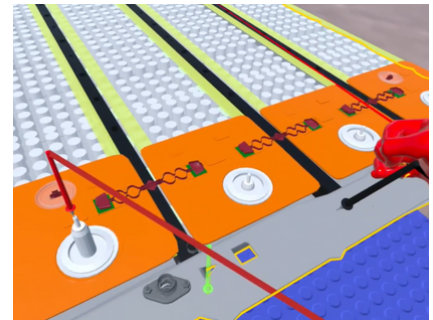
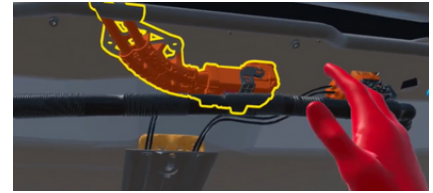
Available in Arabic and English, with support for additional languages upon request.

- **Integrated Performance Monitoring**

Tracks accuracy, errors, and completion time with detailed reporting tools.

- **Multi-Platform Support**

Compatible with leading VR headsets and PC connected to the VR headset





# **Building the Future of Technical Training through Immersive Virtual Reality Solutions**





# Benefits of the EV Simulator

1

## **Risk-Free Learning Environment**

Trainees can practice high-voltage and mechanical procedures without danger, reducing risk of injury or equipment damage.

2

## **Accelerated Skill Acquisition**

Hands-on, repeatable training in an immersive environment leads to faster learning and better retention compared to traditional methods.

3

## **Cost Efficiency**

Eliminates the need for purchasing or maintaining physical EVs, spare parts, and diagnostic tools for training purposes.

4

## **On-Demand Accessibility**

Available 24/7 for in-classroom or remote training, enabling flexible learning schedules.

5

## **Standardized Training Quality**

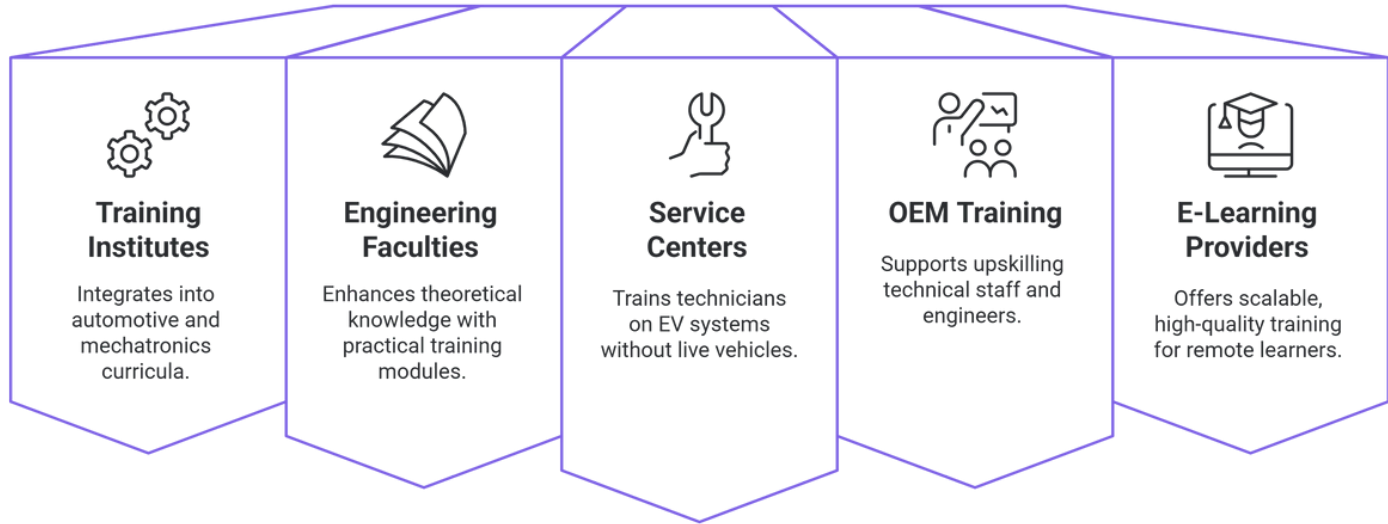
Ensures consistency across multiple training sites and instructors through predefined scenarios and objective performance assessments.

6

## **Real-World Readiness**

Prepares trainees for real-life workshop challenges by simulating authentic EV systems, procedures, and errors.

## Application Areas



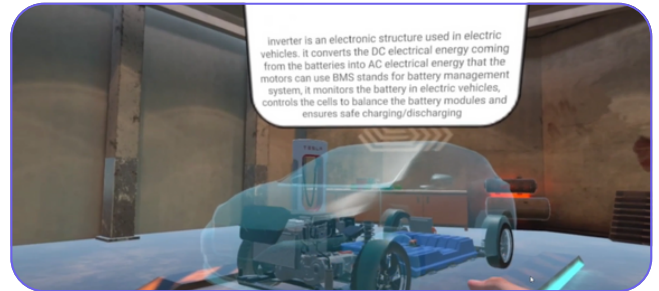
# Scenario Overview

The simulator includes 27 professionally designed scenarios, categorized into core learning areas:

## A. Basic Information Scenarios for Electric Vehicles

### (3 EXPER)

1. Electric Vehicle Technology
2. Hybrid Vehicle Technology
3. Electric Vehicle Battery Components



## B. Practical Interactive Scenarios in Electric Vehicles

### • Vehicle Safety (6 EXPER)

4. Electric Vehicle Accidents
5. Tools and Safety for Electric Vehicle
6. High-Voltage Battery Maintenance
7. Automotive Electronics
8. Vehicle Comfort Systems
9. Vehicle Communication



### • Basic maintenance (7 EXPER)

10. Vehicle Diagnostics and Troubleshooting
11. Electric Vehicle Dashboard Indicators
12. 12-Volt Battery Test
13. Autonomous Driving Assistance Systems
14. Car Lockout Scenario Simulation
15. Vehicle Troubleshooting
16. Maintenance & Troubleshooting in Automotive Electronics



### • Disassembling Electrical & Mechanical Assemblies (5 EXPER)

17. Asynchronous Engine Assembly
18. PM and SM engine assembly
19. Hub motor assembly
20. Removing the PM and SM
21. Electric Vehicle Conversion

### • Charging Station Assembly (2 EXPER)

22. AC Station Charging Experience
23. DC Charging Station Experiment

### • High Voltage Battery (4 EXPER)

24. Removing the High-Voltage Battery
25. High-voltage battery testing
26. High-voltage battery failures
27. Hybrid Cars



## Frequently Asked Questions (FAQ)

### What are the minimum hardware requirements?

The simulator is compatible with standalone VR headsets or PC-based VR setups. It supports modern VR devices as well as Windows PCs with dedicated graphics cards. Hardware specifications may vary depending on the version used.

### Can the simulator be customized for specific training needs?

Yes. Scenarios can be adjusted to match specific EV brands, procedures, and user skill levels. Custom scenarios can also be developed upon request.

### Is the system suitable for beginners?

Absolutely. The simulator is designed for all experience levels, from students to professionals, and includes guided instructions in each scenario.

### How is trainee progress monitored?

Instructors can monitor completion time, accuracy, errors, and scenario scores in real-time or through exported reports.

### What kind of support is available?

ASFAN provides full onboarding, technical support, and training for instructors. Optional add-ons include localized content, live training webinars, and hardware integration.

### Is internet connectivity required?

The simulator can operate fully offline after installation, though online access enables updates, cloud backups, and centralized management.

## Why Choose ASFAN?

- One of the region's pioneers in VR training for electric vehicles
- Based in Jordan with full local support and Arabic/English content
- Proven track record of deploying high-quality technical training solutions across industries
- Flexible packages for institutions, companies, and individuals

## Get Started Today

For more information, demo scheduling, or consultation:



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