



Executive Summary

We developed immersive VR modules to train technicians on EV components, charging, and safety procedures. Using Oculus Quest 2, the solution boosted hands-on learning, reduced errors, and improved safety awareness, setting a new benchmark for scalable EV training in India’s commercial vehicle sector.

Client Profile

Industry: Commercial EV Manufacturer
Location : India

Business Challenge

Technicians and workers lacked hands-on knowledge of EV-specific components, charging procedures, and safe handling of Manual Service Disconnectors. Traditional classroom and video training methods were insufficient to bridge this critical skills gap.

Objectives

To provide immersive, hands-on VR training that effectively upskills technicians and employees in identifying EV components, executing safe charging procedures, and handling Manual Service Disconnectors, thereby improving safety and service quality.

Solution Overview

- We developed three interactive VR modules simulating real-life EV servicing:
- EV Parts Identification: Explore a 3D EV truck with interactive hotspots and audio/text info for each component.
 - Charging SOP: Step-by-step guided training at a virtual charging station with interactive reinforcement.
 - Manual Service Disconnecter (MSD): Hands-on VR simulation for safely removing and reinserting the MSD, including PPE checks and high-voltage handling.

Implementation Details

- Developed using Unity 3D and Oculus Quest 2 devices
- Delivered through standalone VR headsets
- Can be deployed in training centers or demoed in regional workshops
- Built-in assessments and guided instructions were included in each module

Key Results

- Enhanced engagement and knowledge retention among technicians
- Significant reduction in errors during real life EV servicing and charging
- Boosted employee confidence and safety awareness
- Positive feedback from training participants and supervisors

Testimonial

"The VR training modules have transformed how we onboard and upskill our service teams. Technicians now gain hands-on experience in a risk-free environment, leading to fewer errors and greater confidence in handling EV systems. This has set a new benchmark for training in our EV journey."

— Vice President, Service Operations, Leading EV Manufacturer

Key Takeaway

This first-of-its-kind immersive VR training solution in India’s commercial vehicle industry effectively bridged the experiential learning gap, providing a scalable and portable approach that streamlined technician onboarding and ensured safer, more efficient EV servicing across the network.

Impact at a Glance

+45%

Team Skill Growth

+100%

Client Satisfaction

+75%

Enhanced Operational Accuracy

+90%

Training Efficiency and Scalability