



Quick Charge: EV Safety Snapshot

A quick safety guide to help your team stay alert and safe around eGSE

The eGSE Edge: EV Readiness Moves That Drive Top Airline Performance

Electric ground support equipment (eGSE) isn't a someday upgrade - it's here, it's growing fast, and it's rewriting the rules for ramp operations.

Pushback tugs, belt loaders, crew buses, and even deicing trucks are going high-voltage. The payoff is huge: quieter ramps, lower emissions, and reduced fuel costs.

But without the right safety and operational mastery, the EV transition can just as easily cause delays, damage, and downtime.

Airlines that build EV readiness into every role, every procedure, and every turnaround are the ones that will protect crews, keep fleets moving, and keep passengers on schedule, no matter how fast the technology changes.

Your EV GSE Advantage: What Leading Airlines Do Differently

- 1. Map Hazards to Your Fleet**
Don't rely on generic diagrams. Create detailed maps of high-voltage components for each GSE model, and review them with crews during daily briefings.
- 2. Lock Protocols to Turnaround Timing**
Design shutdown and isolation steps that protect crews without jeopardizing on-time performance.
- 3. Make Inspections Predictive**
Track daily inspection data to spot wear patterns early, prevent breakdowns, and avoid costly schedule disruptions.
- 4. Assign Roles with Clear Decision Triggers**
Define who acts, and when, so responses are decisive, fast, and consistent, no matter the shift.
- 5. Embed Safety into Every Workflow**
Make safety steps automatic so they happen even in high-pressure, quick-turn scenarios.



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Safer, Smarter, Faster: eGSE Training That Works

Emerging Best Practices Cross-Training

Providing basic high-voltage awareness to all ramp staff, not just technicians, reduces risk during incidental contact with EV systems.

- **Data-Driven Maintenance**
Tracking component failures, inspection findings, and incident reports helps identify patterns and adjust maintenance schedules before problems escalate.
- **Scenario-Based Drills**
Practicing emergency shutdowns, battery isolation, and evacuation under real-world ramp conditions improves muscle memory and reduces decision time in actual events.
- **Vendor Collaboration**
Working directly with GSE manufacturers to document model-specific safety steps ensures procedures stay current as technology evolves.
- **Regulatory Alignment**
Regularly reviewing protocols against FAA, OSHA, and NFPA updates ensures compliance and reduces conflicting guidance between departments.

Ramp High-Voltage Readiness Checklist

Fleet Knowledge

- ☐ Crews can locate high-voltage components and shutoff points for every GSE model.
- ☐ Hazard maps or quick guides are accessible on the ramp.

Operational Integration

- ☐ Safety steps are built into turnaround and dispatch workflows.
- ☐ Emergency protocols align with flight schedule priorities.

Inspection & Maintenance

- ☐ Daily checks cover cables, connectors, battery housings, and PPE.
- ☐ Findings are logged and reviewed for trends.

Roles & Responsibilities

- ☐ Each role knows its actions and escalation triggers.
- ☐ Cross-trained staff can backfill critical safety steps.

Emergency Readiness

- ☐ Crews have completed scenario drills in real ramp conditions within six months.
- ☐ Communication protocols with ops control are regularly tested.

Regulatory Alignment

- ☐ Procedures meet FAA, OSHA, NFPA, and internal standards.
- ☐ Regulatory updates are integrated promptly.

Why Airlines Choose DEKRA

Every airline is different. DEKRA tailors GSE safety training to each operation.

We work with your safety and maintenance leaders to:

- Build curriculum around your GSE and SOPs
- Integrate FAA, OSHA, NFPA, and airline-specific requirements
- Deliver training in your ramp environment with realistic scenario drills

The result: crews who know the right steps and execute them with confidence, without slowing operations.

Get Your Custom eGSE Training Plan

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