



Public Transport Fleet Battery Health & EV Charging Infrastructure Checklist 2026

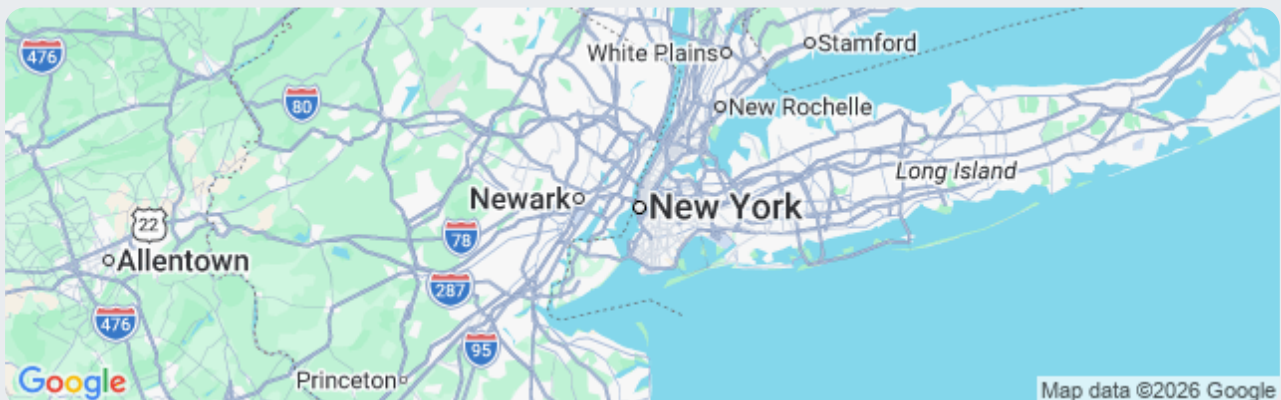
EV Charging Station Physical Inspection

Visual inspection of charging pedestals, cables, connectors, and mounting hardware for physical damage, wear, or environmental degradation.

Inspection Date

Charging Station ID/Location

 [Set My Current Location](#)



Physical Component Status

- ☐ Charging Cable & Plug Intact
- ☐ Connector Pin Condition Good
- ☐ Housing/Enclosure Undamaged
- ☐ Mounting/Pedestal Secure
- ☐ No Visible Corrosion

Observed Physical Defects

Write something...

Detailed Damage Description & Corrective Actions Required

Write something...

Upload Photo of Physical Inspection

 Upload File

Inspector Signature

Electrical & Power Supply Integrity

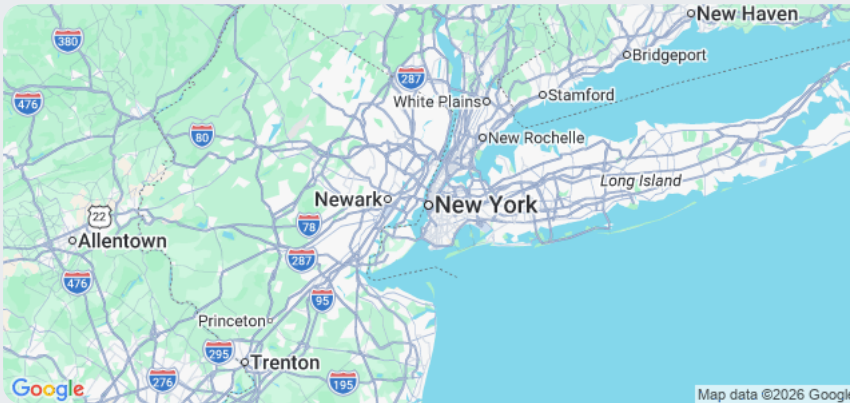
Verification of voltage stability, circuit breaker functionality, grounding/earthing connections, and power cable insulation integrity.

Inspection Date

Enter date...

Charging Station ID/Location

 [Set My Current Location](#)



Voltage Stability Status

- ☐ Stable
- ☐ Fluctuating
- ☐ Critical/Unstable

Measured Input Voltage (V)

Enter a number...

Circuit Breaker & Fuse Check

- ☐ No visible corrosion
- ☐ Properly labeled
- ☐ No signs of overheating
- ☐ Securely seated

Grounding & Earthing Observations

Write something...

Electrical Test Report/Multimeter Log

 Upload File

Inspector Verification

Battery Cell & Module Health Monitoring

Analysis of State of Health (SoH), State of Charge (SoC), cell voltage balancing, and temperature variance across battery modules.

Inspection Date

Enter date...

Average Battery State of Health (SoH) Percentage

Enter a number...

Maximum Cell Voltage Variance (mV)

Enter a number...

Battery Temperature Status

- ☐ Normal
- ☐ Warning: High Temperature
- ☐ Warning: Low Temperature
- ☐ Critical: Thermal Instability

Observed Anomalies

- ☐ Voltage Imbalance
- ☐ Rapid Discharge Rate
- ☐ Swelling/Expansion
- ☐ Unusual Odor/Smoke
- ☐ None

Detailed Health Observations & Technical Notes

Write something...

Battery Diagnostic Log Report

 Upload File

Technician Verification

Charging Interface & Communication Protocol

Testing of OCPI/OCPP communication protocols, RFID/NFC authentication accuracy, and software handshake stability between vehicle and charger.

Communication Protocol Version

- ☐ OCPP 1.6
- ☐ OCPP 2.0.1
- ☐ ISO 15118 (V2G)
- ☐ Proprietary/Legacy

Verified Authentication Methods

- ☐ RFID Card
- ☐ Mobile App / QR Code
- ☐ NFC
- ☐ Plug & Charge (Auto-auth)
- ☐ Fleet Management API

Handshake Latency (Seconds)

Communication Error Logs Summary

Write something...

Protocol Test Log Report

 Upload File

Technician Verification

Thermal Management System Audit

Assessment of liquid cooling/heating systems, coolant levels, pump functionality, and radiator cleanliness for both vehicle and station components.

Coolant Level Status

- ☐ Optimal
- ☐ Low
- ☐ Critical/Empty

Battery Temperature (°C)

Enter a number...

Detected Thermal Anomalies

- ☐ Uneven Cell Temperature
- ☐ Coolant Leakage
- ☐ Pump Noise/Vibration
- ☐ Radiator Blockage

Thermal Performance Observations

Write something...

Thermal Imaging Report

 Upload File

Technician Verification

Software & Firmware Compliance

Verification of latest firmware versions for charging units, cybersecurity patch status, and integration with the fleet management software.

Last Firmware Update Date

Enter date...

Charger Firmware Version Status

- ☐ Up to date
- ☐ Update required
- ☐ Update pending/In progress
- ☐ Outdated - Critical vulnerability detected

Completed Compliance Checks

- ☐ Security Patch Verification
- ☐ Communication Protocol Test
- ☐ Database Synchronization Check
- ☐ User Access Control Audit

Software Discrepancy Notes

Write something...

Upload Firmware Version Log/Report

 Upload File

IT/Technical Auditor Signature

Safety & Emergency Shutdown Systems

Testing of Emergency Stop (E-Stop) buttons, fire suppression readiness in battery storage areas, and automatic disconnection triggers during fault detection.

Emergency Stop Button Functionality

- ☐ Operational
- ☐ Faulty - Requires Immediate Repair
- ☐ Not Tested

Safety System Components Verified

- ☐ Fire Suppression System
- ☐ Automatic Power Disconnect
- ☐ Warning Signage & Lighting
- ☐ Hazardous Leak Detection Sensors

Emergency Shutdown Incident Description

Write something...

Last Safety System Certification Date

Enter date...

Safety Officer Verification

Environmental & Weatherproofing Assessment

Inspection of IP-rated enclosures, drainage around charging pads, and protection against debris or extreme temperature exposure.

Enclosure IP Rating Verification

- ☐ IP65 or higher
- ☐ IP54
- ☐ Below standard (Requires action)

Observed Weathering Signs

- ☐ Corrosion/Rust on Hardware
- ☐ Water Ingress/Moisture Accumulation
- ☐ UV Damage/Cracking of Cables
- ☐ Debris Accumulation in Drainage
- ☐ None

Drainage Integrity Status

Write something...

Evidence of Damage Photos

 Upload File

Detailed Weathering Observations & Notes

Write something...

< Previous

> Next

✔ Finish

🔧 Generate Sample Report