

Overhead Power Line Inspection and Maintenance Training Course

30 November – 4 December 2026
Istanbul

AGILE LEADERS
Training Center

Overhead Power Line Inspection and Maintenance Training Course

Ref: 1827_236858 **Date:** 30 November – 4 December 2026 **Location:** Istanbul **Fees:** 6000 Euro

Overview

Overhead Power Line Inspection and Maintenance Training Course is a one-week intermediate course for utility field and maintenance personnel who leave with an Overhead Line Condition and Maintenance Workbook. The course connects overhead line patrols, structure and conductor inspection, insulator and fitting condition, vegetation control, preventive maintenance planning, and safe fault response through field evidence, defect priorities, and competence boundaries. Agile Leaders Training Center delivers this course on overhead power line inspection and maintenance.

Who Should Attend

- Functions responsible for overhead transmission and distribution line patrols
- Teams responsible for poles, towers, conductors, and insulator condition
- Groups responsible for preventive maintenance and vegetation coordination
- Inspectors responsible for visual, thermal, and field condition evidence
- Supervisors responsible for defect priority, records, and technical escalation

The course assumes participants already support electrical line work or maintenance and leaves out live-line authorization, jurisdiction-specific licensing, and intrusive repair beyond approved competence.

Departments and Industries

The course supports departments responsible for overhead network condition, maintenance readiness, and reliable electrical service.

- Electric utilities and network operators
- Industrial and infrastructure power systems
- Transport, mining, and remote-site electrical networks
- Electrical maintenance and asset management
- Vegetation management and technical field services

Learning Objectives

By the end of this course, participants will be able to:

- Analyze overhead line components, exposure, and failure evidence.
- Apply patrol, work-control, and safe-access methods.
- Build inspection routes and condition records.
- Evaluate structures, conductors, insulators, fittings, and foundations.
- Diagnose thermal, corrosion, vegetation, and earthing concerns.
- Prioritize preventive work, defects, and competent escalation.

Course Agenda

Day 1: Frame Overhead Line Assets

- Overhead Line Asset and Functional-Boundary Map
- Pole, Tower, Crossarm, and Foundation Condition Register
- Conductor, Shield Wire, Insulator, and Fitting Diagram
- Route Exposure, Clearance, and Vegetation Context Matrix
- Manufacturer Information and Maintenance-History Evidence File

Day 2: Plan Patrols and Safe Work

- Ground, Vehicle, and Remote Patrol Planning Sheet
- Job Briefing, Access, Isolation, and Grounding Control Checklist
- Structure Stability and Climbing-Restriction Decision Gate
- Weather, Terrain, Traffic, and Public-Interface Risk Map
- Line Route, Structure Numbering, and Defect-Location Log

Day 3: Inspect Line Components

- Pole, Tower, Crossarm, Fastener, and Foundation Inspection Card
- Conductor Strand, Sag, Clearance, and Connection Condition Sheet
- Insulator Contamination, Cracking, Flashover, and Hardware Matrix
- Corrosion, Coating, Vibration, and Mechanical-Damage Assessment
- Visual, Thermal, and Acoustic Evidence Comparison Board

Day 4: Plan Maintenance and Fault Response

- Vegetation Encroachment and Clearance-Priority Register
- Earthing Interface and Bonding Condition Check Sheet
- Defect Severity, Consequence, and Repair-Priority Matrix
- Preventive, Condition-Based, and Corrective Maintenance Schedule
- Storm, Fault, Public-Hazard, and Competent-Person Escalation Record

Day 5: Practice Overhead Line Decisions

- Exercise: Complete an Overhead Line Patrol Record
- Exercise: Evaluate Structure and Foundation Condition
- Exercise: Classify Conductor, Insulator, and Fitting Defects
- Exercise: Build a Vegetation and Maintenance Priority Plan
- Capstone Exercise: Build the Overhead Line Condition and Maintenance Workbook

Practical Exercises

The course uses suggested activities to connect overhead line evidence with safe, role-appropriate maintenance decisions.

- Suggested activity: plan a patrol route and record access, exposure, and structure references.
- Suggested activity: compare visual and thermal observations across conductors, fittings, and insulators.
- Suggested activity: classify structure, vegetation, corrosion, and earthing concerns by consequence and urgency.
- Suggested activity: convert field findings into a preventive schedule and escalation record.

FAQs

Who suits overhead power line inspection and maintenance training, and what does it assume?

Overhead power line inspection and maintenance training suits personnel who already support line operations, inspection, maintenance, or supervision and work within approved electrical safety procedures and competence limits.

How does overhead line maintenance training differ from live-line work training?

Overhead line maintenance training addresses patrols, condition evidence, preventive planning, controlled access, defect priority, and escalation, while live-line work training addresses specialized authorization, tools, methods, and competence for energized work.

What should an overhead power line patrol inspect?

An overhead power line patrol inspects route access, poles, towers, foundations, crossarms, conductors, clearances, insulators, fittings, earthing interfaces, corrosion, vegetation, public hazards, and evidence of mechanical or thermal deterioration.

How are overhead line defects prioritized for maintenance?

Overhead line defects are prioritized using condition severity, safety exposure, service consequence, deterioration rate, environmental context, approved criteria, available controls, and the need for competent technical assessment.

When should an overhead line condition be escalated?

An overhead line condition should be escalated when safe access, structural capacity, electrical clearance, conductor integrity, insulation, grounding, public safety, or repair limits are uncertain or outside approved criteria.

Conclusion

Participants take back an Overhead Line Condition and Maintenance Workbook. The workbook connects patrol routes, component inspections, field evidence, defect priorities, maintenance schedules, work controls, and escalation records. It changes disconnected observations into a traceable workflow for safer planning, timely intervention, and reliable overhead network condition.