

Training Objectives

Participants will be presented with in-depth knowledge and skills required to safely inspect, maintain, troubleshoot, and repair Terex Distribution Aerial Devices.

Safety & Compliance

- ANSI A92.2 and OSHA requirements
- Safety decals, placards, and documentation
- Wind speed limitations and safe operating practices
- Maintenance recordkeeping requirements

Unit Identification & Documentation

- Unit nomenclature
- Serial number identification
- ID placards and warning labels
- Equipment documentation and quick references

Insulation & Dielectric Systems

- Insulated vs. non-insulated components
- Annual dielectric testing requirements
- Insulation maintenance best practices

Inspection Programs

- Frequent and periodic inspections
- Lubrication requirements
- Major structural inspections
- Load chart interpretation and verification
- Rotation bearing and gearbox inspections

Powertrain & Hydraulic Systems

- PTO operation and troubleshooting
- Hydraulic pump operation, cavitation, and aeration
- Control valve functions and repairs
- Hydraulic cylinders and holding valves
- Reservoir, filters, hoses, and fittings maintenance

Structural & Mechanical Components

- Fiberglass boom inspection and repair
- Critical weld identification
- Leveling rod and chain inspection
- Collector blocks and slip rings
- Outrigger systems and interlocks
- Material handling winches and auxiliary pumps

Electrical & Control Systems

- Open-center hydraulic system operation
- Captive air systems
- On-demand throttle systems
- Boom and outrigger interlocks
- Upper control functions and troubleshooting

Troubleshooting & Diagnostics

- PTO engagement faults
- Hydraulic flow and pressure diagnostics
- Leveling system troubleshooting
- Outrigger interlock diagnostics
- Rotation bearing and backlash testing

Hands-On Workshop Activities (Hands-On Activities may vary)

- Pump flow testing
- Valve disassembly and resealing
- Cylinder repair and testing
- Outrigger leakage testing
- Fiberglass damage assessment and repair
- Hydraulic hose fabrication and inspection
- Rotation bearing measurements
- Leveling system troubleshooting