

Safety Procedures

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Technician SOPs

TECHNICIAN STANDARD OPERATING PROCEDURES (SOP)

1. Pre-Deployment Check

PPE Verification: Ensure all required Personal Protective Equipment (Hard hat, safety vest, safety shoes, and safety glasses) are worn correctly.

Tool and Equipment Audit: Verify that all specialized tools (Fiber splicer, Optical Power Meter, ladders, hand tools) are functional and complete.

Job Briefing: Confirm assignment details, location data, and specific customer requirements before departure.

2. On-Site Safety and Execution

Hazard Assessment: Scan the workspace for potential dangers such as live electrical hazards, unstable poles, or structural risks.

Workzone Setup: Deploy safety cones and warning signs around the work area, especially when operating near active roads or pedestrian lanes.

Ladder and Fall Protection: Secure ladders at a safe angle and ensure they are stable. Always utilize a safety harness or safety belt when working at heights.

3. Post-Deployment and Housekeeping

Site Cleansing: Remove all workspace debris, including fiber shards, cable trimmings, and packaging materials.

Inventory Control: Account for all tools and remaining materials before leaving the site.

Reporting: Submit the completed work order and clearance report to the supervisor.

Technician training

TECHNICIAN TRAINING & CERTIFICATION

1. Core Technical Competencies

- Fiber Optic Fundamentals: Understanding of single-mode/multi-mode fibers, light propagation, and attenuation factors.
- Splicing Excellence: Hands-on proficiency with fusion splicing machines, cleavers, and splice tray management.
- Testing & Measurement: Operational mastery of Optical Time-Domain Reflectometers (OTDR) and Optical Power Meters (OPM) for link validation.

2. Safety & Field Readiness Training

- Working at Heights: Mandatory safety certification for ladder handling, pole climbing, and proper usage of full-body fall harnesses.
- Electrical Hazard Awareness: Training on distinguishing telecom cables from power lines and managing high-voltage safety clearances.
- First Aid & Emergency Response: Basic life support protocols, emergency evacuation procedures, and field incident reporting.

3. Post-Training Evaluation

- Practical Assessment: Timed field simulation of fiber cutting, splicing, and enclosure sealing to industry standards.
- Theoretical Examination: Written or digital test covering troubleshooting flows, safety codes, and corporate deployment specifications.