Wireless Infrastructure Technician Skills and Exam Preparation Course

22 – 26 February 2027
Addis Ababa

AGILE LEADERS
Training Center

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Ref: 501_223719 **Date:** 22 – 26 February 2027 **Location:** Addis Ababa **Fees:** 6000 Euro

Overview

Wireless Infrastructure Technician Skills and Exam Preparation Course is a one-week certification-preparation course for wireless technicians, telecom installers, field engineers, network support specialists, site supervisors, and external-certification candidates who leave with a Wireless Site Installation and Test File. Participants connect site surveys, cabling, antennas, grounding, equipment installation, testing, troubleshooting, and closeout with exam-style review. The course is independent and awards no third-party credential. Agile Leaders Training Center presents wireless infrastructure preparation through field-quality controls and traceable test evidence.

Who Should Attend

- Installation functions responsible for wireless equipment, cabling, and antenna systems
- Field engineering functions responsible for site readiness and commissioning support
- Testing functions responsible for measurements, results, and fault isolation
- Supervision functions responsible for workmanship, safety interfaces, and closeout
- Professionals preparing independently for an external wireless technician examination

The course assumes participants can use basic hand tools and interpret simple technical drawings, and it leaves out tower climbing authorization, energized work, manufacturer licensing, and certification award.

Departments and Industries

The course supports departments and industries that install, test, maintain, or accept wireless communications infrastructure.

- Mobile network, in-building wireless, and distributed antenna projects
- Telecommunications contractors and infrastructure service providers
- Commercial, industrial, transport, and public-safety wireless facilities
- Data, fiber, low-voltage, and network installation teams
- Field operations, quality, commissioning, and maintenance departments

Learning Objectives

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

- Build a wireless-site installation and test plan
- Apply cable, connector, antenna, grounding, and weatherproofing controls
- Use basic sweep, PIM, continuity, power, and fiber-test concepts
- Analyze test results and isolate common infrastructure faults
- Evaluate workmanship, labeling, documentation, and closeout evidence
- Prepare for external exam objectives without a credential guarantee

Course Agenda

Day 1: Wireless Infrastructure and Site Readiness

- RF, frequency, propagation, coverage, and interference concepts
- Site survey, drawings, equipment schedules, and cable routes
- Rack space, power, PoE, access, and environmental readiness
- Risk assessment and authorized-work boundaries
- Wireless site installation and test file structure

Day 2: Cables, Connectors, Fiber, and Grounding

- Coaxial, twisted-pair, and fiber interfaces in wireless sites
- Cable handling, bend radius, support, routing, and separation
- Connector preparation, cleanliness, torque, and inspection awareness
- Grounding, bonding, surge-protection, and continuity concepts
- Labeling, identification, and as-installed records

Day 3: Antennas and Equipment Installation

- Antenna types, polarization, azimuth, tilt, and mounting
- Feedline, jumper, combiner, and equipment interfaces
- Indoor, rooftop, pole, and equipment-room constraints
- Weatherproofing, sealing, strain relief, and corrosion prevention
- Installation inspection and nonconformance checks

Day 4: Testing Commissioning and Troubleshooting

- Continuity, power, optical, and basic commissioning checks
- Line and antenna sweep concepts and trace interpretation
- Passive intermodulation causes, test setup, and fault-location awareness
- Coverage, interference, configuration, and infrastructure fault separation
- Test result, exception, corrective-action, and retest records

Day 5: Quality Closeout and Exam Preparation

- Workmanship audit, punch list, and acceptance evidence
- As-built drawings, photographs, asset labels, and test packages
- Exam-domain map, question analysis, and study-gap register
- Suggested Exercise: Wireless Site Fault and Test Review
- Capstone Exercise: Wireless Site Installation and Test File

Practical Exercises

The course uses suggested exercises for technician decision-making without authorizing tower, energized, or regulated work.

- Suggested activity: review a wireless site pack for routes, power, grounding, access, and missing readiness evidence.
- Suggested activity: inspect cable, connector, antenna, labeling, and weatherproofing examples.
- Suggested activity: interpret sample sweep, PIM, continuity, and fiber-test records to isolate likely faults.
- Suggested activity: build an exam study map and complete a quality-closeout file.

FAQs

What does wireless infrastructure technician training cover?

It covers site readiness, routes, cabling, connectors, fiber, grounding, antennas, equipment, weatherproofing, basic testing, troubleshooting, workmanship, documentation, commissioning support, and closeout.

Who suits wireless infrastructure technician training, and what does it assume?

The course suits technicians, installers, field engineers, support specialists, supervisors, and exam candidates. It assumes basic tool use and the ability to read simple technical drawings.

How does this course differ from a manufacturer installation course?

This course is vendor-neutral and focuses on transferable infrastructure practices and evidence. A manufacturer course focuses on a specific product, procedure, warranty, or authorized configuration.

Does this course award the CWIT credential?

No. CWIT is a third-party credential owned by its issuing organization. This independent course does not award, represent, or guarantee that credential or any examination result.

How should candidates prepare for an external technician exam?

Candidates should verify current eligibility, objectives, format, practical requirements, fees, and policies with the certification owner, then map study and practice evidence to those current requirements.

Conclusion

Participants take back a Wireless Site Installation and Test File linking readiness, routes, cabling, grounding, antennas, weatherproofing, measurements, faults, corrective actions, labels, as-built records, and exam study gaps. It provides a vendor-neutral structure for field quality and independent certification preparation.