

Cambium PTP 820/850 Licensed Microwave – Installation, Configuration & Certification Training



Course Duration: 2 Days (16 hours).

Delivery Mode: Onsite Instructor-Led / Virtual Instructor-Led.

Target Audience: Wireless Field Technicians, Network Engineers, System Integrators, Telecommunications Contractors, & Radio and Microwave Deployment Teams.

Course Description

This hands-on training course provides technical instruction on the **Cambium Networks PTP 820 and PTP 850 licensed microwave radio platforms**. It covers system architecture, hardware installation, configuration, commissioning, and troubleshooting. Participants will gain the knowledge and practical skills required to confidently deploy and maintain high-capacity, carrier-grade microwave backhaul systems using Cambium's PTP 820/850 series.

The course includes instructor-led sessions, detailed technical walkthroughs, and lab exercises using real or simulated hardware. **Certification is awarded upon successful completion of an online exam.**

Prerequisites

- Basic IP networking and VLAN knowledge.
- Understanding of RF fundamentals (LoS, modulation, link planning).
- Familiarity with structured cabling and field installation practices.
- Cambium PTP Basics eLearning via Cambium Learning Platform (not required).
- Use of Cambium LINKPlanner for path design (not required).

Learning Outcomes

Upon completion, participants will be able to:

- ✓ Describe the architecture and components of the PTP 820 and PTP 850 platforms.
- ✓ Identify appropriate use cases for all-indoor, split-mount, and all-outdoor configurations.
- ✓ Install, align, and commission licensed microwave links to Cambium standards.
- ✓ Configure radios using the web-based GUI and CLI interfaces.
- ✓ Perform software upgrades and apply feature licenses.
- ✓ Monitor, test, and validate link performance.
- ✓ Troubleshoot common RF, cabling, and configuration issues.
- ✓ Complete system handover documentation and compliance records.

Course Modules

Day 1: System Overview & Physical Installation

- Introduction to Cambium PTP 820/850 Portfolio.
- Licensed frequency planning and ACMA compliance (AU-specific).
- Split-mount and all-outdoor deployment scenarios.
- Cabling, surge protection, and grounding.
- Antenna types, alignment principles, and mounting hardware.
- **Lab:** ODU/IDU hardware review and physical install checklist.



Day 2: Configuration, Commissioning & Certification

- Device access methods: Web GUI and CLI.
- IP addressing, SNMP, and management interface setup.
- RF configuration: frequency, modulation, bandwidth, power levels.
- Adaptive Modulation, QoS, and Ethernet service profiles.
- Software upgrade and license key management.
- **Lab:** Full end-to-end configuration and link bring-up.
- System logs, alarm diagnostics, and performance counters.
- Spectrum analysis and interference mitigation.
- Acceptance testing, throughput validation, and link verification.
- Documenting link configuration and compliance reports.
- **Lab:** Fault simulation and troubleshooting exercise.
- **Online Certification Exam** (link provided post-training).

Assessment & Certification

Participants must complete an **online certification exam** after the course:

- Successful candidates will receive a **Cambium Certified PTP 820/850 Installer Certificate**.
- Certification is valid for **2 years**.
- Digital credentials and optional re-certification available online.

