

RADWIN Fixed Wireless Access (FWA) Professional Operation: In-Class Course

Part Numbers: RW-8410-4010

Prerequisites: RF fundamentals, Networking 101 or previous network experience

Course Duration: Five (5) days

Enrollment: Ten (10) maximum

Target Audience:

- Distributors
- Partners
- System Integrators
- T1 / T2 Support Engineers

Course Description:

This course introduces RADWIN's PtP and PtMP radio systems and supportive planning, operation and management tools. The course is relevant for network operators seeking to become RADWIN certified for Fixed Wireless Access (FWA) radio systems. Upon completion of this course the participants will acquire the required skills for professional planning, operation and maintenance of RADWIN FWA radio systems.

This course introduces theoretical, operational, and practical aspects of RADWIN FWA radio systems. It includes a hands-on workshop that enables participants to practice planning, configuration and management of the PtP and PtMP system/equipment and perform basic troubleshooting.

Certification Conditions:

Upon completion of the course, the participants will receive certification, subject to the successful fulfillment of the following conditions:

- The trainee must participate in all theoretical sessions and complete all hands-on training.
- The participant must pass the final exam.
- The certification qualifies the planning, installation, operation and maintenance of the products addressed in the course.
- The certification has a validity period of two (2) years. It must be renewed upon the expiration period to maintain the qualification.
- To renew the certification, one must attend a refreshment training and pass the re-certification exam.

Course Objectives:

Upon completing this course, participants will have a solid understanding of:

- The main principles of the RADWIN PtP and PtMP solutions
- The technology, features, and advantages
- RADWIN's PtP and PtMP system architecture, features, system components and associated functions
- The SW/HW compatibility and SW upgrade
- How to install, configure and troubleshoot PtP and PtMP links
- Site acceptance and commissioning process
- Site preparation and installation: best practices
- Estimate the link budget using RADWIN Link Budget Calculator (LBC)
- Design the PtP & PtMP network using WINPlan tool
- Manage and monitor the network using WINManage system
- RADWIN's services and support structure

Provided collateral:

- PDF copies of the course presentations

Course Agenda¹

Time / Day	Day 1	Day 2	Day 3	Day 4	Day 5
09:00 – 09:30	Course opening & introduction	Daily recap	Daily recap	Daily recap	Daily Recap
09:30 – 10:15	RADWIN PRM overview and sign-in	Network synchronization	MultiSector Introduction	WINManage Introduction	WINPlan Introduction
10:15 – 11:00	PtP & PtMP system introduction	PtMP Network deployment overview	IDU-S / Smart-Node overview	WINManage Introduction	WINPlan Introduction
11:00 – 11:15	Break				
11:15 – 12:00	RADWIN technology introduction	Installation and configuration – WEB UI HBS	R-Manager HBS installation and configuration	WINManage Introduction	WINPlan practice
12:00 – 12:45	Site planning	Installation and configuration – WEB UI HBS	Troubleshooting procedure	WINManage Introduction	WINPlan practice
12:45 – 13:45	Lunch				
13:45 – 14:30	PtP installation & configuration procedure – WEB UI	RADWIN SU GUI & installation	Software & license upgrade procedure	WINManage practice	RADWIN Services portfolio
14:30 – 15:15	PtP installation & configuration procedure – R-Manager	SU WINTouch alignment	Channel Planning & LBC Overview	WINManage practice	Course summary and feedback
15:15 – 15:30	Break				
15:30 – 16:15	PtP installation practice	WEB UI HBS installation practice	Installation and configuration practice	WINManage practice	Final exam
16:15 – 17:00	PtP installation practice	WEB UI HBS installation practice	Installation and configuration practice	WINManage practice	Final exam

Class Requirements:

1. Room suitable for training based on number of participants, properly air-conditioned and in quite environment
2. Video projector and cables required for trainer's laptop connection
3. Whiteboard/flipchart and markers
4. Broadband internet connection + Wi-Fi
5. PC/laptop for each participant
6. Equipment for hands-on or connection to remote lab
7. Registration to RADWIN PRM

¹ Agenda may be subject to changes