



iBwave CERTIFICATION COURSE SYLLABUS

iBwave SURVEY AND GRID TESTING FOR PUBLIC SAFETY NETWORKS

Note: Course syllabus is subject to change

LEARNING OBJECTIVES

At the end of this course, you will be able to:

- ✓ Set up a new project in iBwave Mobile Survey and import floor plans and site information.
- ✓ Perform grid testing using the Epiq PRISM scanner to collect signal strength data.
- ✓ Analyze signal strength data to identify coverage hotspots and areas with weak signals.
- ✓ Generate and customize reports to effectively document field observations and meet specific project requirements

PRE-REQUISITE: RF FUNDAMENTALS FOR PUBLIC SAFETY NETWORKS

- ✓ Importance of Public Safety Networks
- ✓ RF Basics
 - Key RF Concepts and Terminology
 - RF Propagation
 - RF Interference and Noise
 - RF System Components
 - Communication Technologies in Public Safety Networks
- ✓ RF Planning and Design Considerations
 - Factors Influencing RF Planning
 - RF Measurements and Testing
 - RF Safety Guidelines

STARTING A PROJECT

- ✓ Setting up the application and connecting to the server
- ✓ Adding a new project
- ✓ Defining project properties
- ✓ Adding outdoor plans, building, and floor plans
- ✓ Setting the scale and reference point

DATA COLLECTION

- ✓ Setting up the PRISM scanner's connection with the mobile device
- ✓ Collecting survey data for LTE and P25 using PRISM scanner
- ✓ Displaying and interpreting collected data
- ✓ Performing grid testing for P25 using PRISM scanner

COMPLETING A SITE SURVEY

- ✓ Creating annotations and markups for enhanced documentation
- ✓ Adding cable routes
- ✓ Producing summary and grid testing reports
- ✓ Saving the project to the server

YOUR TURN TO TRY

- ✓ Practice using iBwave Mobile Survey and the Epiq PRISM Scanner to complete hands-on exercises throughout the course.

EXAM

- ✓ 2 hours