



# BSI Course Overview

## OVERVIEW

The BridgeWave System Installer (BSI) course is the second module in the online technical eCertification program. The course provides detailed training for performing site surveys and physical hardware installations for BridgeWave products.

## OBJECTIVES

At the end of this course students will understand basic RF concepts, and will be able to perform site surveys and physical hardware installations for BridgeWave products.

## INTENDED AUDIENCE

This course is designed for persons interested in installing and designing solutions using BridgeWave products.

## ESTIMATED TIME REQUIRED

This is a self-paced course that consists of a “55” min video presentation followed by a brief certification test. Total time for completion is estimated to be around “1.75” hours.

## PREREQUISITES

- Complete the BridgeWave Product Introduction(BPI) course (recommended)
- Understand basic installation and wiring practices for telecommunications equipment.

## REQUIREMENTS

- Broadband Internet access
- PC with web browser
- Adobe Acrobat Reader for opening and viewing course content
- Ability to print handouts or presentation material, typically provided in .pdf format. (Optional)



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## COURSE OUTLINE

### Student Workbook

- A .pdf copy of the BSI video slides with documented speaker narrations.

### Section 1 - BSI Video (55 min)

- Terminology
  - Links and Terminals
  - Low Band vs. High Band
  - Antenna Radiation Patterns
  - Main Beam, Side Lobes, and Nulls
  - Beamwidth
- System Overview
  - Recommended 3<sup>rd</sup> Party Parts
  - System Block Diagram
  - Antenna Types
  - Mast Requirements
  - Cable Specifications
  - Connector Types

SERVICES





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- Conducting Site Surveys
  - Before Going On Site
  - Recommended Tools
  - Site Survey Form
  - Site Walk
  - Determining Line of Site (Los)
- Installation and Commissioning
  - Antenna Mount Assembly
  - Cable Connections
  - Initial Configuration
  - Antenna Alignment
  - System Calibration
- Troubleshooting
  - No Power
  - No Fiber Link
  - Low RSL
  - SNMP
- Getting Support
  - BWTC Contact Info
  - RMA Request Form



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## Section 2 – BSI Certification Test

- Online, self-paced, open book test

## Section 3 – Certificate of Completion

- Available upon completion of video and achieving 85% or higher on the test. Downloadable .pdf certificate is serialized for authenticity.

## Section 4 – Course Survey (Optional)

- Provide your feed back

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