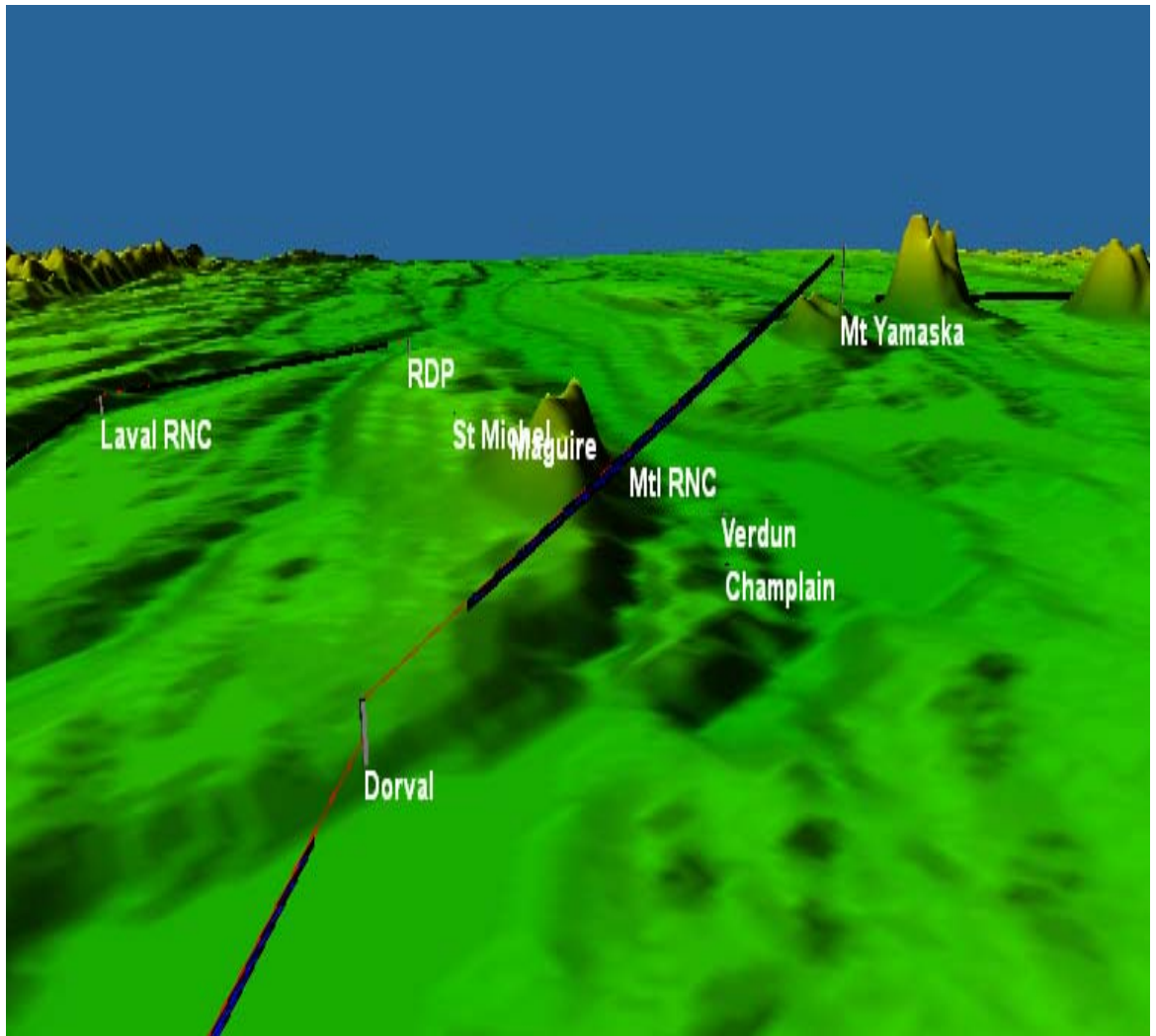


Pathloss 5 Training



ONLINE TRAINING
PATHLOSS 5 COMPLETE POINT-TO-POINT
3 training sessions

**FOR MORE
INFORMATION**

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PATHLOSS

RF communication network design can be a complex and sometimes daunting task. Fortunately, engineers and technicians working on RF network planning can use software tools such as Pathloss to ensure a methodical and thorough approach to their task.

The Pathloss program is a state-of-the-art comprehensive path design tool for networks operating in the frequency range from 30 MHz to 100 GHz.

Designed for use throughout the world with diverse equipment and wide-ranging atmospheric conditions, Pathloss uses a variety of terrain and clutter databases, equipment files and local weather files.

The program is organized into modules, covering all aspects of microwave communication network design. These include five path design modules. The network module, which integrates the radio paths and several operations that can be performed on a given network including: interference analysis, automatic link generation and design, PTMP design, and local and area coverage studies.

OBJECTIVES

The goal of this module is to covers the topics specific to point-to-point design, such as Antenna Heights, Multipath-Reflections, Automatic Link Generation and Design, Interference, and reports.

Below, you will find a daily description of the topics that would be covered during this training.

PRE-REQUISITES

The Basic Operation module is a pre-requisite to this training.

ADDITIONAL ONLINE PATHLOSS 5 TRAINING PACKAGES

- ☞ Microwave and Coverage Theory
- ☞ Basic Operation
- ☞ Point-to-Multipoint (PTMP) and Coverage software operation; with or without Theory
- ☞ Full Pathloss 5 operation including PTP, PTMP and Coverage applications; with or without Theory

SCHEDULE AND FEES

Three live sessions via Zoom online training platform. Each session lasting approximately 3.5 hours. For more information about our Pathloss training program, please e-mail us at telecom@YRH.com or call at +1 514.934.3024.

TOPICS COVERED

DAY 1

- **Antenna Heights Module**
 - + Setting antenna heights to meet clearance criteria for different antenna configurations

Exercises:

 - *How to verify and/or modify clearance criteria for a given path*
 - *How to set antenna heights for main and diversity antenna configurations*

- **Multipath and Reflection Module**
 - + Variable and Constant Gradient Ray Trace
 - + Reflective Plane and Ray Tracing Reflection Analysis
 - + Optimal Space Diversity antenna heights

Exercises:

 - *Display the reflective characteristics of a path using constant and variable gradient*
 - *Perform a reflection analysis and set optimal main and diversity antenna heights*

DAY 2

- **Automatic Link Generation and Design**
 - + Network design of PTP links
 - + Link Design Rules
 - + Create PTP links
 - + Design and modify PTP links
 - + Frequency assignment

Exercises:

 - *Determine LOS and connectivity between new sites and existing network*
 - *Automatically design new PTP links*
 - *Assign frequencies on a network level*

DAY 3

- **Interference**
 - + Setting Intra-System Interference Parameters
 - + Correlation options
 - + Reading and analyzing Interference reports

Exercises:

 - *How to perform an intra-system interference calculation*
 - *How to solve potential cases of interference using several methods*

- **Network Batch Reports**
 - + Batch and performance reports
 - + Export to csv, Google Earth and MapInfo