Heights HDNA Course Description

Course Overview

The Heights HDNA training course allows learners to understand how the Heights HDNA (Heights Dynamic Network Access) system is configured and functions, including the NetVue Management System, Bandwidth Manager (formerly VMS), along with the Heights hub, and remote modems.

This course is geared towards NOC engineers, providing tiered remote and hub support to customers, to field technicians responsible for configuring remote sites. The training course will focus on the operation of the entire suite of Heights HDNA hardware including HTO-1/HTX modulator, HDC-1, the HRX multi-demodulator, the H-Pro / H-Plus remote modems, Bandwidth Manager, and NetVue IMS.

The course structure will consist of a blend of classroom lecture and hands-on lab experience in order to gain an understanding of how the Heights, Bandwidth Manager, and NetVue IMS technology combine to create an efficient satellite network management system.

At the end of this 40 hours course attendees will be able to return to their place of work with the confidence and understanding to properly operate their Heights HDNA.

Heights HDNA Course Certification

Students will be given a written exam at the end of training and for those who achieve a score of at least 70% on the final exam will be given a Heights HDNA course certification.

Course Prerequisite

Each attendee of the Heights HDNA course should have a basic understanding of networking concepts as well as a working knowledge of satellite communication. These are essential concepts when configuring the Heights. A basic understanding of Windows Server 2012 is also a plus. Training material will be provided via FTP Portal.

Heights HDNA Course Description Agenda

Heights HDNA Introduction Module

- **Heights Architecture Overview**
  - Heights Solution
  - Bandwidth Manager (History of dSCPC progression to HDNA)
  - NetVue IMS

Heights -Training Documentation Module

- **Network Addressing Overview**
  - Example of typical IP addressing scheme for a Heights Network (Hub and Remotes)
- **Configure of Hub and Remote Modem**
  - Understanding ECM
- **Creating Bandwidth pools**
- **Configure Adaptive Coding Modulation and DPC**
- **Understanding and Configuring QoS**
  - Influence of ACM/Link Degradation on QoS
  - Packet Matching Hierarchy

Configuring Modems

- **Configuring HDNA**
- **Redundancy (Bandwidth Manager, NetVue, and hub modem redundancy)**
- **Backup and Restore (Bandwidth Manager, NetVue, Heights Modems)**
- **VLOAD (firmware upgrades)**
- **P1dB Power Calibration**

NetVue IMS Overview

- **NetVue IMS**
  - UI Overview
  - Element Overview
- **Users and Groups**
  - Integration of existing Architecture (Active Directory/OpenLDAP)
  - Creating Users/Groups

Alarms & Trading

- **NetVue Alarms**
  - Alarm Management
  - Alarm Templates
  - Alerter
- **NetVue Trending**
- **NetVue Reports**

End of Course Exam