

## Course Name:

### AMN 5192 4F-BLSR Maintenance and Installation

## Overview:

This course will provide the student with the instruction and lab experience required to build a knowledge foundation in the operation, maintenance, administration and provisioning (OAM&P) of Hitachi Telecommunications AMN 5192 4F-BLSR Open Ring and Standard Ring networks using the Graphical local Craft Terminal (GLCT) software. The course is targeted toward Maintenance, Installation and Network Monitoring Personnel. This is a pre-requisite for the EM operations course.

Upon completion of this course, the student will be able to use the GLCT software to turn-up, provision, monitor, maintain and trouble shoot a network of AMN 5192 4F-BLSR Network Elements (NE=s). The student will be required to take a final assessment that will be used to certify successful course completion.

## Objectives:

At the completion of this course the student will be able to

1. Identify all of the AMN 5192 System components
2. Accomplish an installation of modules for the AMN 5192 System.
3. Turn-up all components in the AMN 5192 System.
4. Assure satisfactory system performance by conducting acceptance testing.
5. Recognize, analyze, and clear system alarms within the AMN 5192 System.
6. Perform system maintenance and trouble clearing

## Prerequisites:

An understanding of the following:

1. DS-1 (T1)
2. DS-3
3. Basic Fiber systems
4. Basic SONET/RING Hierarchy
5. Basic Troubleshooting Techniques
6. Basic Test Equipment
7. Basic PC Skills

## Lessons:

1. Fiber Optic Network Topologies
2. AMN 5192 Features
3. Add/Drop Multiplexer Ring Node
4. LRE (Line Regenerator Equipment)
5. Network Element Installation
6. LAB: Network Element Installation
7. Add/Drop Mux Matrix Switch
8. Low Speed System Engineering
9. Low Speed System Interfaces
10. High Speed Transmission System
11. Overhead and Clocking Systems
12. System Management and Control
13. Communications
14. Automatic Protection Switching System
15. DC Power Distribution
16. LAB: Introduction to GLCT
17. LAB: Network Element Turn Up and Commissioning
18. LAB: Network Management and Trouble Shooting
19. Review and Certification test

## Mode of Delivery:

## Length:

Instructor Led, Hands On Laboratory and small Discussion Groups

5 Days

## Location:

Hitachi Telecom (USA), Inc.  
3617 Parkway Lane  
Norcross, GA 30092  
(770) - 446 - 8820 - voice  
(770) - 242 - 1402 - fax