Course Name: Antenna Connectors I & M

Course Overview:

This class is designed to teach the fundamentals of antenna connectors, installation and maintenance. The class is divided into two sections, with the morning being directed towards coaxial cables in the soft category and connections; the afternoon being focused on hard line coaxial cables. The class is 50% hands-on exercises with evaluation of student performance.

Course Length: 1 day

Who should attend?

- Installers
- Field Service Technicians
- Design/Transport Engineers
- RF Engineers
- Managers/Field Supervisors
- Field Engineers
- Technicians

You will learn:

- Fundamentals of cable and impedance matching
- Cable and connector types
- Required tools and equipment
- Efficient installation and maintenance of coaxial cable and systems
- Troubleshooting

Prerequisites: None

Customizable Course: Yes

Course Content:

Antennas & Transmission Lines

- Why use transmission lines
- How antenna cables fit into the network
- Resonance & Bandwidth
- Terminations

Coaxial cables

- Construction
- Loss
- Propagation characteristics



Testing

Connectors

- Type N Connectors
- BNC Connectors
- DIN Connectors
- SMA Connectors

Making connections - Soft cables

- Mechanics of coaxial connectors
- Preparing cables for connectors
- Installing connectors Customer Specific

Hard Line Coaxial Connections

- Why use Hard lines
- When to use Hard Lines
- Cable Types & sizes
- Cable Loss

Installation Considerations

- Connector Types
- Installation practices
- Specialty cables radiating cables

Installing Connectors

- Preparing cables
- Preparing connectors
- Installing connectors

Grounding Considerations

- When to ground
- Grounding principals
- Connecting grounds

Weatherization

- Installing "O" Rings
- Installing weather tapes
- Final Taping of connectors
- Drains

