

Antenna Connectors

Course Length:	2 Days
Course Code:	3001
Prerequisites	None, however a basic understanding of transmission line and antenna principles will be useful for students taking this course.
Course Overview:	This class is designed to teach the fundamentals of antenna connectors, installation and maintenance. The class is divided into two sections; the morning being directed towards coaxial cables and connections and the afternoon being focused on waveguides. The class will include hands-on exercises and evaluation of student performance.
Required Equipment:	None, <i>this course can be customized to meet specific customer requirements.</i>

Course Outline

Coaxial cables

- Construction
- Loss
- Propagation characteristics

Connectivity

- Terminations
- Impedance considerations
- Grounding

Making connections

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



NetForce Solutions, Inc.
P.O. Box 1710
Denver, NC 28037

phone (301) 943-5062
fax (509) 757-1661

info@netforcesolutions.com

www.netforcesolutions.com

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Grounding Considerations

- When to ground
- Grounding principals
- Connecting grounds

Weatherization

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

Waveguides

- How waveguide works
- When to use waveguide
- Waveguide types
- Waveguide Loss
- Polarity and wave propagation

Installation Considerations

- Planning waveguide runs
- Using flex pieces
- Connecting rigid & flex pieces
- Connecting to feed horns

Installing Connectors

- Preparing cables
- Preparing connectors
- Installing connectors
- Waveguide flares
- "O" ring installation
- Weatherization of waveguide

Pressurization

- When to pressurize
- Installing Pressure windows
- Maintaining pressure

Grounding waveguides

- When to ground
- Where to ground
- How to ground