

Course Name: Location Based Service Installation & Maintenance

Course Overview:

This course will provide two days of focused training on the TruePosition Location Measurement Unit (LMU) as well as connections to cable, antennas and T1 equipment. This practical course will provide a basic overview of the Wireless Location System as well as a hands-on program to increase the knowledge and proficiency of technicians and engineers on the proper installation and maintenance.

Course Length: 2 day

Who should attend?

- Field Service Technicians
- Switch Technicians
- Design Engineers
- Managers/Field Supervisors
- Field Engineers

You will learn:

- Installation and maintenance procedures for LMU at cellular site
- Functionality of LMU and system architecture
- Configuration and strapping of LMU
- Procomm Plus commands, hot buttons and chat windows
- Testing and verification of connections to T1 and RF equipment
- How to validate operation and service verification to SMLC
- Troubleshooting procedures to quickly resolve abnormalities
- Tips & Tricks to increase efficiency and accuracy with the LMU and its associated equipment and connections

Prerequisites: None

Customizable Course: Yes

Course Content:

Day 1 Classroom (8 hours)

Location Based Services

- Trends & Services
- Applications
- Network Architecture



- RF/Antennas
- LMU
- SMLC
- GPS

Cell Site Equipment

- LMUs
- Antennas
- Cable/Connections

LMU Overview

- Hardware
- Software

Installation

- Required Tools
- Site Assessment
- Mounting
- Weatherproofing
- Power & Grounding
- Safety
- Cable & Connections

Communicating with LMU

- Console Port
- ProComm Plus
- Commands, Hot Buttons and Chat Windows
- Hands-On Labs

T1 (DS0)Connection

- Review of T1 Concepts
- T1 Connectors and Cable
- Connections to T1 Equipment (ie Axxius)
- Hands-On Labs

Day 2 Classroom (8 hours)

RF Connections

- Review of RF Concepts
- RF Connectors and Cable
- GPS
- Single v/s Dual Connections
- Test Equipment
- Verifying RF Signal



- BIT 6 and BIT 8 Test
- Connections to Antennas
- Hands-On Labs

LMU Configuration

- T1/DS0 Strapping
- Verifying T1 and DS0 Signal
- Setting GPS Parameters
- BIT 9 Test
- DSP and CP
- BIT 4 and BIT 5 Test
- RF Gain
- Search Beacon PCS
- Errors and Alarms
- Tips & Tricks
- Hands-On Labs

Service Verification

- SMLC Link
- Levels and Signal Strength
- Resetting LMU

Survey and Validator

- Why Important?
- Completing Form
- SCOUT

