Course O3b003

AVL INSTALLATION & COMMISSIONING TRAINING

This course includes an introduction to SES Networks Medium Earth Orbit (MEO) system fundamentals and the unique requirements of a transportable antenna system. The course is designed to introduce the fundamental operation of the AvL 85 cm and 2.4 m Motorized FlyAway systems. It includes both hardware and software elements, initial setup, theory, calibration, acquisition, and maintenance of both the controller and the AvL antenna. A significant part of the training will be hands-on to include installing, configuring, and testing the terminal. During the build and throughout the practical sessions students will be coached on troubleshooting techniques in order to identify fault conditions.

- Day 1: Antenna physical deployment, AAQ GUI layout and setup and IP configurations RTAC GUI layout and setup, component operational theory, upload of SDB files and acquiring the SES Networks satellite constellation.
- Day 2: Demonstration of the software upgrade process, introduction to physical sensors and their role in the system, navigation of the AAQ GUI, spare parts replacements.
- Day 3: Azimuth and elevation calibration procedure, AAQ GUI Navigation and calibration screens, review of software and configuration items, simulation of common issues and troubleshooting.
- Day 4: Course review and certification.

Learning objectives
At the end of the course the student will be able to:
- Understand the AvL antenna and AAQ control system
- Describe and identify common hardware and software
- Understand the controller concepts
- Perform the initial setup and calibration of the controller
- Perform operation and maintenance the antenna system
- Identify and interpret errors associated with AAQ

Audience
Field Technicians responsible for Installation & Commissioning and the performance of both corrective and preventive maintenance on SES Networks' AvL 85cm and 2.4m terminals.

Course Number
O3b003

Course Title
AvL Installation & Commissioning Training

Duration
4 days, Monday to Thursday from 09.00am – 16.30pm

Pre-requisite Training
GVF500, GVF510, GVF520, GVF521 or equivalent and a minimum of two years' experience of VSAT Installation

Location
Manassas, VA, USA or alternate locations by arrangement.

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Explore new frontiers in learning to gain the technical skills and hands-on experience you need to thrive. Customers, partners, employees, and authorised professionals can take online and instructor-led courses taught by SES Networks technical experts. Students get practical, hands-on learning experiences to help them construct, troubleshoot, repair, and monitor and manage satellite ground systems and related network components for optimum network performance and uptime.

SES Networks Ground Systems

- O3b001: Tier-2 GD Field Level Practices
- O3b002: Maritime Systems Training
- O3b003: AvL Installation & Commissioning
- O3b004: ViaSat Tier-2 Operations & Maintenance

SES Networks Online Training

- O3b731: Introduction to SES Networks
- O3b732: Advanced System Fundamentals
- O3b733: Fixed Terminal Site Survey

GVF Courses
- GVF500: Introduction to Satellite Communications
- GVF510: Core Skills for VSAT Professionals
- GVF520: Satcom Fundamentals
- GVF521: Practical Techniques for VSAT Professionals
- GVF561: Fundamentals for Marine VSAT Operators

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