Advanced satellite communications
A 3 day training course

Description
This course starts by recapping some of the essential satellite knowledge required and proceeds to explore the deeper aspects of satellite communications, including hardware, communications and error control coding.

Key outcomes
By the end of the course delegates will be able to:
- Explain how satellite communications work.
- Explain how RF works.
- Explain the architecture of satellite systems.
- Use spectrum analysers.

Training approach
This structured course uses Instructor Led Training to provide the best possible learning experience. Small class sizes ensure students benefit from our engaging and interactive style of teaching with delegates encouraged to ask questions throughout the course. Quizzes follow each major section allowing checking of learning.

Details
Who will benefit?
Anyone working with satellite systems.
Prerequisites
Essential Satellite Communications.
Duration: 3 days

Customer rating:

Generic training
- Generic training compliments product specific courses covering the complete picture of all relevant devices including the protocols "on the wire".

Small class sizes
- We limit our maximum class size to 8 delegates; often we have less than this. This ensures optimal interactivity between delegates and instructor.

Hands On training
- The majority of our courses use hands on sessions to reinforce the theory.

Our courseware
- We write our own courses; courseware does not just consist of slides and our slides are diagrams not bullet point text.

Customise your course
- Please contact us if you would like a course to be customised to meet your specific requirements. Have the course your way.

"Friendly environment with expert teaching that teaches the why before the how."
G.C. Fasthosts

"Excellent course. The small class size was a great benefit..."  
M.B. IBM

"Not many courses have practice added to it. Normally just the theoretical stuff is covered."  
J.W. Vodafone

"Comprehensive materials that made the course easy to follow and will be used as a reference point."  
V.B. Rockwell Collins

"I was very impressed by the combination of practical and theory. Very informative. Friendly approachable environment, lots of hands on."
S.R. Qinetiq
Basic Principles of Satellite Communications

Radio frequency propagation

Satellite antennae and other hardware

Earth and Space Segments and the link

Ground Communications Equipment

Satellite Navigation
Longitude, latitude, altitude, GPS. How GPS works, timing, alternatives to GPS.

Mobile satellite services
Voice and Phones, BGAN, TV, GPS to program aerial, VSAT.

Error Control Coding

Test and measurement
Theory and practice of Spectrum Analysers.