Overview:
The Terrestrial Trunked Radio (TETRA) system has been designed to meet the varied requirements of private mobile users. This encompasses networks as diverse as basic radio-to-radio communication between two users and a fully data capable switched infrastructure providing national coverage for thousands of users. This very broad capability requirement for a single technology results in an extensive technical specification.

Target Audience:
This course is primarily designed for engineers working for equipment vendors and for network operators who are involved in equipment design, manufacture, network planning, network optimization, strategy determination or deployment of TETRA technology. Some may find this course is all they need to know; for others it will provide a steppingstone to further study on an appropriate technical Level 3 course.

Objectives:
- identify potential users and services that are suited to TETRA’s capabilities
- list the standardized TETRA interfaces and identify the location and types of non-standardized interfaces that may be required
- use traffic theory to justify the use of a trunked radio system in a range of mobile radio scenarios
- list and describe the realistic performance of the teleservices and bearer services available in TETRA
- describe the circuit-switched and packet-switched data capabilities of TETRA including TETRA Advanced Packet Services (TAPS)
- explain how the TETRA radio channel can be adapted in terms of error protection for the highest reliability
- relate cellular radio principles to the design of large-scale TETRA networks
- describe the fundamental radio characteristics of TETRA base station and mobile station equipment
- discuss digital signal processing techniques in TETRA systems and identify where they are applied
- describe network architecture possibilities for TETRA and state the functions of key network elements
- describe the general structure and operation of the TETRA air interface
- identify and characterize the mobility management functions that are required in a TETRA network
- describe the capabilities and options for direct mode operation in TETRA
- Learning Objectives
- TETRA System Overview
- www.

Prerequisites:
In order to achieve the maximum benefit from this course, it is recommended that students are familiar with the architecture and general operation of typical VHF or UHF mobile networks. Some understanding of radio techniques would also be useful. However, most people with an ability to understand technical information will benefit from this course.
Follow-on-Courses:

In order to achieve the maximum benefit from this course, it is recommended that students are familiar with the architecture and general operation of typical VHF or UHF mobile networks. Some understanding of radio techniques would also be useful. However, most people with an ability to understand technical information will benefit from this course.

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Further Information:

For More information, or to book your course, please call us on Head Office 01189 123456 / Northern Office 0113 242 5931

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