

SDH Fundamentals

This course provides an understanding of SDH and how the modern transport network works. The course is tailored for those who require in-depth technical knowledge and an appreciation of SDH equipment and their application in Telecommunications Networks.

Prerequisites:

This course is designed for Telecommunications engineers who already possess knowledge of the fundamentals of Telecommunications.

Learning Objectives

At the end of the course, participants will be able to relate to|:

- SDH Terminology
- SDH Network Structures
- SDH Signals and Framing Structures
- The advantages of SDH, including Pointers and Justifications
- Traffic Protection options
- The Synchronisation of SDH Network elements.

Who Should Attend?

- Project managers and team members who require in-depth SDH technical knowledge.
- Technical managers who manage technicians and engineers who work with SDH elements.
- The course is also a suitable prerequisite for subsequent equipment related training.

Course Outline

- Transmission Principles
- Pulse Code Modulation
- To appreciate the limitations of PDH.
- SONET, the origins of SDH?
- To appreciate the improvements and enhancements SDH delivers.
- To understand the SDH multiplexing structure.
- Path Overheads
- Section Overheads
- Concatenation
- Pointers
- Protection options
- Synchronisation
- Examples of manufacturer specific Network Elements.
- Applications and SDH Networks are illustrated throughout the course.