Systems & Network Training

Essential SS7

A 2 day training course

Save on expenses. This course is also available on your premises.

Description

An Introduction to Signalling System No 7. Covering the terminology, technology and topology of the Core Signalling System.

Key outcomes

By the end of the course delegates will be able to:

- ✔ Describe the evolution of SS7.
- ✔ Identify the component parts of SS7
- ✔ Describe the basic method of operation of SS7.
- ✔ Describe a basic call set-up and clear within SS7.

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?
Network/Systems engineers/Operators/Planners

Prerequisites
Telecommunications Introduction.

Duration: 2 days

Customer rating: ★★★★★

Generic training	Small class sizes	Hands On training	Our courseware	Customise your course
Generic training compliments product specific courses covering the complete picture of all relevant devices including the protocols "on the wire".	We limit our maximum class size to 8 delegates; often we have less than this. This ensures optimal interactivity between delegates and instructor.	The majority of our courses use hands on sessions to reinforce the theory.	We write our own courses; courseware does not just consist of slides and our slides are diagrams not bullet point text.	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

Essential SS7

Course content

Introduction

Digital Signalling, CAS, CAS Applications, CCS, Layer 1, Layer 2 (HDLC), Layer 3, Evolution of SS7, Common SS7 functions.

Physical Functionality

SS7 Topology, Service Switching Point (SSP), Signalling Transfer Point (STP), Service Control Point (SCP), Database Types, CMSDB, NP, LIDB, HLR, VLR, Signalling Modes, Link Types, Further Redundancy, Linksets, Signalling Routes.

Addressing

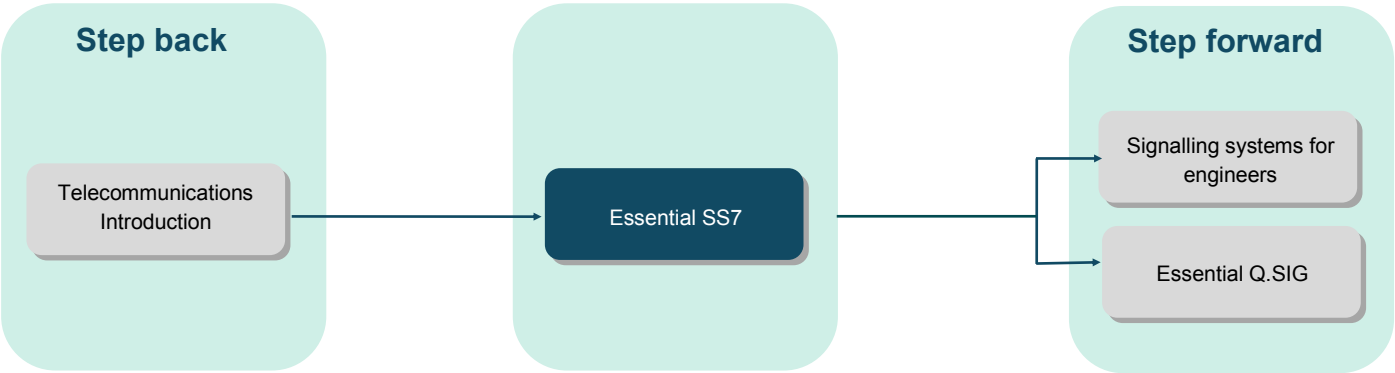
Addressing in SS7, E.164, ANSI PCs, ITU-T (CCITT) PCs, Connecting Networks (ISPs/NSPs).

Message Transfer Part

SS7 Protocol Stack, MTP Level 1, MTP Level 2, Signalling Units, Flow Control, Fill In Signalling Unit (FISU), Link Status Signalling Unit (LSSU), Message Signalling Unit (MSU), MTP Level 3.

Application and User Parts

Signalling Connection Control Part (SCCP), Transaction Capabilities Application Part (TCAP), Telephone User Part, BTUP, ISDN User Part (ISUP), ISUP – Supplementary Services, ISUP – Call, Call Set-up over SS7.

The Intelligent Network

Function of IN, Evolution of IN, Conceptual Model, Target Services and Service Features, Independent Building Blocks.