

Signaling System (SS7) Fundamentals

Course Length	1 day
Course Code	1381
Prerequisites	None, however an Introduction to Data technologies course is extremely helpful.
Course Overview:	This course gives an overview of SS7 technology and standards. All SS7 equipment, links, protocols, and service parameters are discussed.

*This course can be customized or combined to meet specific requirements

*Second day can be added for extensive hands-on applications

Course Outline

Signaling Overview

- Purpose of Signaling
- In-Band Signaling
- Out-of-Band Signaling
- Common Channel Signaling (CCS)
- Background of SS7
- Comparison to other technologies
- Industry Trends
- Standards

SS7 Overview

- The Intelligent Network (IN)
- Technology overview
- Features
- Benefits

SS7 Equipment

- SSP
- STP
- SCP
- Links



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Signaling System (SS7) Fundamentals

SS7 Protocols

MTP (1, 2, 3)

ISUP

SNM

SCCP/TCAP

SS7 Maintenance

Link Monitoring

Message Analysis

Call Tracing

SS7 Messages/Terms

FISU, MSU, LSSU

FCS/CRC

ACM, IAM, ANM, RLC, REL

DPC/OPC

Cause Codes

SS7 and other Technologies

Voice Systems

Emergency/911

VoIP

Wireless Networks

Next Steps for Intelligent Signaling Networks