

**SUPERVISORY DEVELOPMENT PROGRAMMES
SIGNAL ENGINEERING & TELECOMMUNICATIONS**

Some of the courses are given below. However detailed position with regard to all the courses proposed during the year, their contents and schedules can be viewed at <http://www.iriset.ac.in> directly or through <http://www.rites.co.in>

1. Equipment Course in Electronic Exchange - 2 Week (May 2011)

For Whom: Telecommunication Supervisors with 2-3 years experience with working knowledge of digital electronic exchange.

Course Contents

<ul style="list-style-type: none"> ✚ Call processing ✚ Computer principles and I/O devices ✚ Computer software for exchange ✚ Control structure, switching ✚ Digital switching ✚ O&M organisation of C DOT. ✚ Study of C-DOT exchange 	<ul style="list-style-type: none"> ✚ Introduction to electronic exchange ✚ Introduction to micro-processors (65 C 02) and important ICs used in line and trunk cards ✚ Signaling system in exchange ✚ SPC exchange basic principles ✚ Study of digital exchange (C DOT with hardware details)
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2. Refresher Course for Signaling – 5 weeks (April, May, July, August, September, October & December 2011)

For Whom: Refresher course is meant for working supervisor looking after railway signaling. The topics which are covered are as under:

Course Contents

<ul style="list-style-type: none"> ✚ Electrical Signaling – Train Detecting Devices (Track Circuits, Axle Counters & AFTC) ✚ Elect. Signaling Equipment & Misc. Circuits ✚ Signaling in 25 KV RE area. ✚ Power Supply Arrangements & Relay Interlocking (British) ✚ Relay Interlocking (Siemens) ✚ Modern Signaling, Solid State Interlocking 	<ul style="list-style-type: none"> ✚ Modern Signaling, Digital Axle Counter, AWS, Data logger, ETCS, etc., ✚ Block Signaling, GSR & aspects related to safety & SEM ✚ Locking Table Practice, Lifting Barrier gate & Reliability & Sound Construction Practice ✚ Accidents and case study & Microprocessor ✚ Computer Basics & Rail net / Internet
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