Course description

INPSN-UC103
Fiber Optic Communication Equipment Type
FOX-515 / FOX-615

Course goal
This course provides fundamental know-how of Fiber Optic technology and detailed information about ABB’s FOX-515/FOX-615. After the successful completion of this course, the participant will be familiar with the features and applications of the “FOX” Series Product line and will be able to configure and maintain a communication link.

Learning objectives
Upon completion of this course the participants will be able to:
- Understand why Broadband solutions like FOX-515/FOX-615 are required in the Utility Communication Sector.
- Understand the principles of SDH, Ethernet, Legacy Voice & Data, Tele-protection and their configurations in ABB’s FOX systems.
- Understand from a System perspective, the key components, parameters, modules required for various applications.

Participant profile
Personnel from Power Utilities, Power Generation, transmission companies & industries and Consultants responsible for engineering, commissioning, operation and Maintenance of substations.

Prerequisites
Basic Knowledge of Fiber Optics.
Basic knowledge of Networking.

Topics
- Fundamentals of Fiber Optics
- Introduction to PDH & SDH systems
- Significance of Link Budget
- FOX-615 / FOX-515 Architecture
- Overview of Modules and their Applications
- Introduction to Path Protection Schemes: MSP & SNCP
- Introduction to Software: FOXCST [In case of FOX-615] or FOXUCST [In case of FOX-515]
- The Concept of Cross Connection

Topics
- Group Exercise: Configure Legacy Data, Voice, Tele-Protection, Ethernet Modules Offline
- Practical Exercise: Implement knowledge learnt so far in a live system.

Course type and methods
This is an instructor led seminar with group and practical exercises. The language of the course is English.

Duration
The duration of the course is five days.
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Fiber Optic Communication Equipment Type FOX-515 / FOX-615

## Course outline

<table>
<thead>
<tr>
<th>Day 1</th>
<th>Day 2</th>
<th>Day 3</th>
<th>Day 4</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>General</strong></td>
<td><strong>System Introduction</strong></td>
<td><strong>Group Exercises</strong></td>
<td><strong>Practical</strong></td>
</tr>
<tr>
<td>Introduction</td>
<td>System Architecture</td>
<td>Software Overview</td>
<td>FOX System Link setup</td>
</tr>
<tr>
<td>Physics of Fiber Optics</td>
<td>SDH Multiplexing in FOX System</td>
<td>Introduction to Cross Connection</td>
<td>Check BER for Legacy Data</td>
</tr>
<tr>
<td>Introduction to PDH &amp; SDH</td>
<td>Module Description</td>
<td>Group Exercise: Do Cross Connect for Legacy Voice, Data, Tele-Protection and Ethernet</td>
<td>Implement Subscriber / Exchange</td>
</tr>
<tr>
<td>Link Budget and example</td>
<td>Protection Schemes: SNCP / MSP</td>
<td></td>
<td>Implement Tele-Protection and send / receive commands</td>
</tr>
<tr>
<td></td>
<td>Networking Basics: IP, VLAN</td>
<td></td>
<td>Ethernet Functionality: VOIP OR PING TEST</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Final Wrap up: Problems and Queries</td>
</tr>
</tbody>
</table>

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