

## Design and Implementation of a Practical GPON-POL

<b>Course Name:</b>	Design and Implementation of a Practical GPON-POL
<b>Course Duration:</b>	20 hours
<b>Requirements:</b>	Switching WAN Interconnection
<b>Who should take this Course:</b>	Network administrators Network designers Network engineers Solutions designers

### Syllabus Course

#### Outline:

- Introduction to FTTX
- GPON network environment
- GPON Networks Architecture
- GPON Topology and Technology
- GPON Network Layers
- Network Planning and Design
- Strategic network planning
- High-level network design
- Low-level network design
- GPON Power Budget Calculation
- Traditional LAN vs Passive Optical LAN
- Traditional LAN architecture versus Passive Optical LAN architecture
- Converting Traditional LAN to Passive Optical LAN
- Active Equipment
- PON Standards

- OLT Types
- ONT Types
- Switching Plan and configuration
- PON plan and configuration
- ONT Profiles
- EMS and ACS
- Maintenance