

CREATING SMARTER NETWORK PROFESSIONALS



INCREASE YOUR BANDWIDTH FOR GROWTH



The Necessity for Developing Smart and Sustainable Networks

While we need smarter networks it is equally important to make them sustainable. According to a recent study, India's cities will be home to 590 million people by 2030 accounting for 70% of all new employment. The challenge will be to develop sustainable solutions for maintaining a clean, healthy and efficient environment for people to live and work.

The Indian Government has launched an initiative to develop 100 smart cities across the country. It imagines cities will use digital technology solutions to improve utilities, buildings, infrastructure, health and education to 'raise the standard of living of citizens in ways that are economical and eco-friendly.'

With the Telecom industry entering into the next phase of growth, increasing deployments in backhaul and last mile networks and government initiatives like NOFN, OFC market requirement are on an upward growth trajectory. Not just customers but businesses are also looking forward to smarter and more sustainable solutions. The crunch of resources drives the need to work towards sustainable systems and solutions which can meet future demand for high speed transmission and greater bandwidth, connecting the world in a faster, efficient, seamless and in a cost-effective way.



The Growing Need for Skill Development

Imbibing skills with speed, scale and standards across the country is imperative. Nations possessing a high degree of skill are better placed to handle the vagaries of the domestic, as well as the international, workforce market.

Skills and knowledge are the driving forces of economic growth and social development for any country. With anticipated growth and development across the nation, comes the onus of leveraging this opportunity and scaling ourselves to match up the skills and knowledge required to fulfil this mammoth market requirement.



About Us

Sterlite technologies, world's leading and India's only vertically integrated Optical Communication products, services and software company. We aim to transform everyday living by delivering smarter networks. Our sustained focus on technology, engineering and operational expertise in global as well as national market help us serve our clients with superior quality and an unparalleled experience.

Sharing a common lineage with Vedanta Resources Plc., Sterlite Tech is among the global leaders in Optical Communication products such as Optical Fiber, Fiber optic Cables, and Data Cables through its operations in India, China, Brazil and sales network across 5 continents.

Under the Telecom services offerings, with expertise in designing, engineering, building and managing broadband networks, Sterlite Tech is developing several network projects, such as the secure network for the Armed Forces under Network for Spectrum, enabling rural broadband through BharatNet, developing Smart Cities, and establishing high speed Fiber-to-the-Home (FTTH).

Sterlite Tech has recently broadened its offerings portfolio to include Telecom Software by acquiring highly customizable OSS & BSS software solutions suite through Elitecore. With many industries first to its credit, Sterlite Tech is home to India's only Centre of Excellence for broadband research and a strong portfolio of over 100 patents.



Delivering Smarter Networks

Our close association with most of the Telecom Operators across the globe has enabled us to realize the problems that they face when it comes to deployment of network. Especially, in India, the set of challenges they face is quite unique.

In Indian deployment scenario, Sterlite Tech stresses upon optimized network planning. A professionally planned network with latest technology stands as a solution to many deployment challenges such as dark fiber traceability, number of joints, areal route diversions, additional maintenance of ducts, etc., eventually leading into a short lived network.

Sterlite Tech 's team has over the years achieved expertise in managing very large scale as well as small scale network deployment through projects such as Network for Spectrum, National Knowledge Network (NKN), FTTH deployment across six Indian cities, etc. We have pledged to translate this experience into creating value for our customers in the private operators space.

Sterlite Tech's Smart Network offers complete peace of mind where we take single point responsibility of end-to-end project management. Backed by our Centre of Excellence in Telecom Research, we ensure that the quality of products and technologies we use are among the global best.

In our endeavor to address the fiber deployment skill gap, we have created an academy of fiber professionals where we certify and equip the task force with necessary skills in fiber deployment.

"Sterlite Tech Academy" is an enthusiastic initiative taken in order to enhance the skills and motivate towards creating a well-trained and skilled manpower. Sterlite Tech Academy aims at creating a pool of Smarter Network Professionals that will provide the requisite impetus for productive and quality output which will eventually set the benchmark in the industry for others to follow.

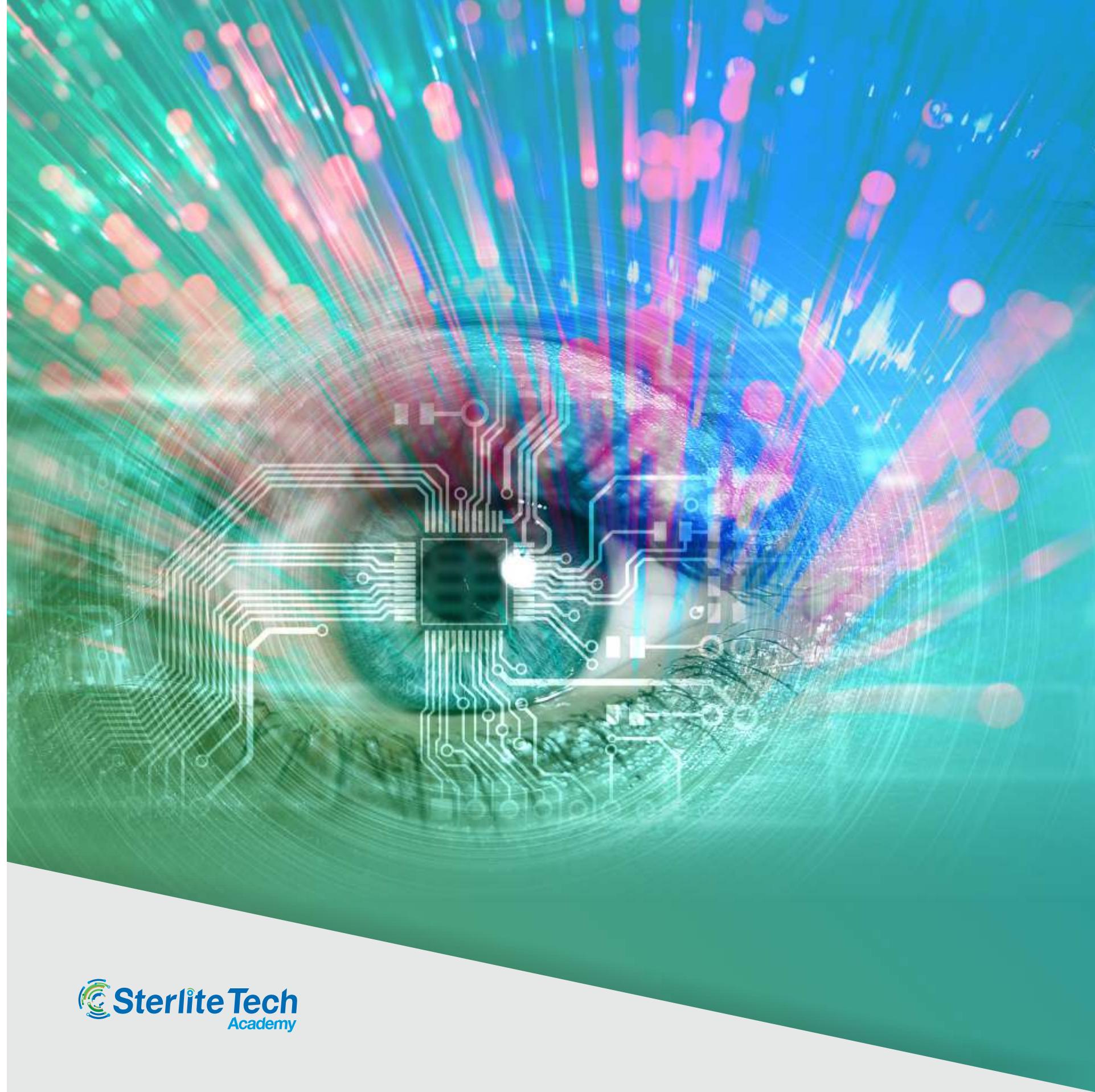


Sterlite Tech Academy

With India at the cusp of a demographic shift, holding one of the youngest populations in the world, a skilled workforce is the need of the hour. As rightly said by Confucius, "I hear, I forget. I see, I remember. I do and I understand." Sterlite Tech Academy successfully incorporates the Global Content with our National Intent to meet the rising demands of skill development in realm of OFC deployment.

Aligning to the vision of the Digital India Programme, which is to transform India into a digitally empowered society and knowledge economy, Sterlite's endeavor, is to create an ocean of skilled manpower that will ensure high rate of reliability and standardization of Network Deployment practices and processes nationally.

Sterlite Tech Academy would further enable us to deliver unprecedented service to Nation and augment reliability and longevity of the network we build & manage.



Our Vision

Transforming everyday living by delivering Smarter Networks



Our Methodology

Sterlite Tech Academy would impart classroom sessions and extensive hands on training to people involved in Optical Fiber Cable Network Deployment. The course modules have been designed keeping in view the market needs; customization and standardization of global best practices that fit best in Indian scenarios. This would enable the individuals to deliver a perfect blend of Quality and Speed.

To foster reliability, and maintain quality in the foundation, more focus has been given to hands on training followed by assessments and certification.



Benefits of Certification

- Organization with well skilled and certified manpower will give boost for productive and quality output and will lead to raising the benchmark in the industry.
- This will encourage professional skill development, enhance individual competency and increase recognition by peers, employers and recruiters.
- The training will support better team, vendor and performance management.
- Sterlite Tech Academy would further enable the nation in managing the challenges faced in planning, deploying or maintaining all aspects of Fiber network and help in catering to the thriving need of expert skill development in the Fiber Optics domain.



Our Offerings

The courses and modules designed will help in skill development, making individuals well equipped to build and manage the challenges faced in planning, deploying and maintaining all aspects of Fiber network.

The Academy will offer Certification Programs catering to:

- Outside Plant Cabling
- Fiber to the Home

OUTSIDE PLANT CABLING

C1 Certification program for OSP Fiber Optic Network Construction Planner

This Certification Program introduces participants to industry standards, rules and regulations governing outside the plant fiber optics network construction, various cabling topologies, route designs, documentation , right of way, writing specifications and cost estimations.

Who can attend:

Engineers & Managers from Telecom Operators and Contractors

Course Duration

3 days

Prerequisites

Education: Graduate

Work Experience: Basic understanding of Optical Fiber

Content Details

- General Fiber and Cable Information
- Codes, Standards and Regulations
- Route Designs
- Cabling Topologies
- Media Selections
- Splicing
- Pathways
- Documentation
- Design Case Studies
- Right-of-way
- Writing Project Specifications and Estimations

Highlights

- Innovative Design Techniques
- Systematic Learning Approach

C2 Certification program for OSP Fiber Optic Network Deployment Manager

This Certification program provides an overall understanding on deploying outside the plant fiber optic networks including both theoretical and practical understanding and a session on 'Telecom Management'.

Who can attend:

C3 Certified Personnel, Managers from Telecom Operators and Contractors.

Course Duration

3 days

Prerequisites

Education: Graduate

Work Experience: Considerable field experience, C3 (preferred)

Content Details

Theory

- Optical Fiber Characteristics
- Fiber Optic Cable Designs, Materials and Structure
- Connectorisation and Splicing
- Cable Management outside plant cable management
- Underground Cable System Design Underground Construction
- ADSS Cable System Design and Cable Construction
- OPGW Cable System Design and Cable Construction
- Testing Requirements and Results Interpretation
- Fiber Optic Safety Procedures

Practical

- Handling and Installation
- Cable and Closure Preparation
- Splicing OTDR Troubleshooting



Highlights

- Exhaustive Products Knowledge
- Extensive Testing and Troubleshooting

C3 Certification program for OSP Fiber Optic Installer

The three-day class includes blend of classroom lecture integrated with hands-on time in a lab setting on latest Fiber optic equipment using latest techniques required to adequately install and maintain outside plant fiber optic networks.

Highlights

- Industry best installation practices
- Extensive hands-on

Who can attend:

Field Engineers & Managers from Telecom Operators and Contractors

Course Duration

3 days

Prerequisites

Education: Graduate

Work Experience: Basic Exposure of having worked in Deployment of Cables

Content Details

Theory

- Optical Fiber Characteristics
- Fiber Optic Cable Designs, Materials and Structure
- Connectorisation and Splicing
- Cable Management Outside Plant Cable Management
- Underground Cable System Design Underground Construction
- ADSS Cable System Design and Cable Construction
- OPGW Cable System Design and Cable Construction
- Testing Requirements and Results Interpretation
- Fiber Optic Safety Procedures

Practical

- Handling and Installation
- Cable and Closure Preparation
- Splicing OTDR Troubleshooting

C4 Certification program for OSP Fiber Optic Network Auditor

This Certification program introduces participants to industry standards, codes and regulations governing acceptance tests for civil work and outside the plant OFC layout, auditing skills and practices and verify OFC infrastructure against specification and documentation.

Highlights

- Acceptance Tests regulations
- Codes and Standards for both Civil and OFC link

Who can attend:

C3 Certified Personnel, Quality Stakeholders

Course Duration

1 day

Prerequisites

Education: Graduate

Work Experience: C3(preferred)

Content Details

Theory

- Codes, Standards and Regulations
- Acceptance Tests for Civil Work
- Acceptance Tests for OFC layout
- Civil Testing like Cross-pit
- Specification Verification
- Documentation



FIBER TO THE HOME

F1 Certification program for FTTx Designer

This Certification Program introduces participants to industry standards, rules and regulations governing FTTx network design, various topologies, route designs, documentation, active and passive components, loss budgets and design steps.

Who can attend:

Engineers & Managers from Telecom Operators and Contractors

Course Duration

2 days

Prerequisites

Education: Graduate

Work Experience: Basic Understanding of Optical Fiber and FTTH

Highlights

- Multi-faceted FTTx Design Exposure
- Systematic Learning Approach

F2 Certification program for FTTx Installer

This Certification program introduces participants to Industry standards governing FTTH (Fiber to the Home), and Distribution Cabling along with basic Fiber standards to be followed emphasizing on practical understanding and the skills required to adequately install and maintain FTTx PON network.

Who can attend:

Field Engineers & Managers from Telecom Operators and Contractors

Course Duration

3 days

Prerequisites

Education: Graduate

Work Experience: Basic Understanding of Optical Fiber

Content Details

Theory

- Introduction
- Fiber and Cable basics
- FTTH Standards
- FTTx PON Methodology
- Fiber Cable Management
- Installation: OSP and In-Building (both underground and aerial, plenum)
- Grounding Techniques for Armour Cable
- Connectors and its Testing

Splicing

- Testing - OTDR, Power Loss, Visual Fault Detector,
- Test Disciplines and Fundamentals
- Passive Devices and its Installation (i.e. FDMS)
- Active Devices - Basic
- Network Components
- OLTs and ONTs
- AE versus PON
- Safety

Practical

- Connectorisation
- Splicing (Both Mechanical and Fusion)
- Cable Termination
- OTDR: How to Operate, Troubleshoot and Trace Analysis
- Power Loss, Visual Fault Detector and Fiber Identification



Highlights

- Industry best installation practices
- Real time test and troubleshooting scenarios

F3 Certification program for FTTx Network Auditor

This Certification program introduces participants to FTTx standards, codes and regulations, key parameters and test methods, documentation and maintenance of records, acceptance tests for civil work and FTTx lay-out, auditing skills & practices.

Highlights

- Extensive FTTx Standards, Codes and Practical: Regulations Testing

Who can attend:

F2 Certified Personnel, Quality Stakeholders

Course Duration

2 days

Prerequisites

Education: Graduate

Work Experience: F2 (Preferred)

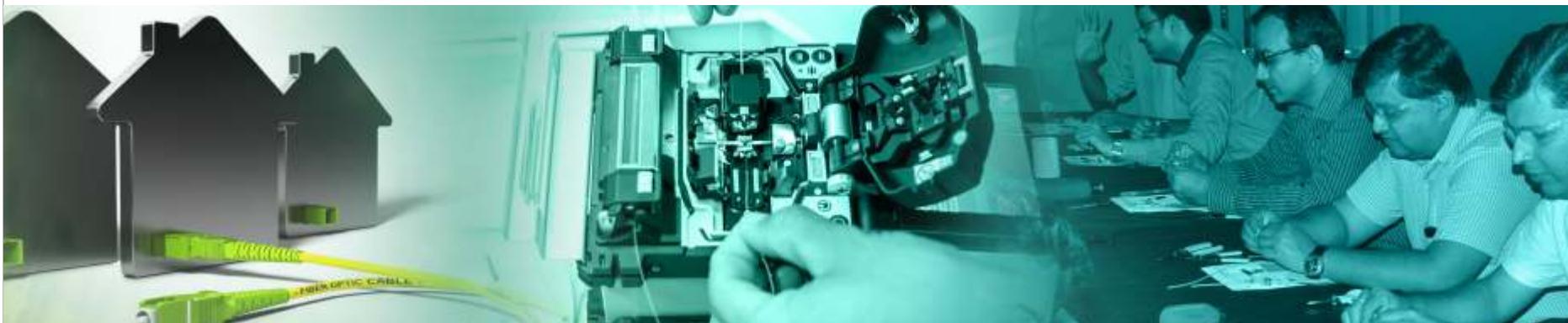
Content Details

Theory

- Network Build Process
- Checklist (CO/OSP/IBD)
- Documentation
- Installation and O&M AT/Audit
- Process for HOTO/Checklist
- SOP Fiber Installation and Testing
- SOP IBD and Customer Wiring
- FTTH Standard and Specifications
- Codes and Regulations
- AT for Civil work
- Test Disciplines
- Safety

Practical

- OTDR, Power Loss, Visual Fault Detector and Fiber Identifier
- Troubleshooting Exercise: OTDR Trace Analysis



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