

Optical Fiber Splicer

UNIT 1 Introduction (TELECOM AND OFC)

Communication, telecommunication, job role , TELECOM GROWTH,

Public Switched Telephone Network (PSTN), Transmission Medium (Guided, Unguided), Optical fiber technology (Applications & profit),

optical fiber cable elements (CORE, CLADING..) ,Optical fiber communication elements (L.S, FIBER, L.D), Terminology (fiber id ...)

Unit 2 Installation and Commissioning of Optical Fiber Cables

Site Visit, Route inspection (benefits and steps)

OfC specification (TENSILE STRENGTH (short term load) , BEND RADIUS, CRUSH @ IMPACT,ATTENUATION, CONTINUITY),factor affecting ofc , Handling ofc (CABLE UNLOADING, CABLE UNWRAPPING CABLE STORAGE, STORAGE ISSUE)

Pre installation steps of OFC, Installation of OFC (STEPS : a TRENCHING b. AERIAL, DUCTING PROCESS, CABLE LAYING,CABLE PULLING AND BLOWING, OFC TEMINATION METHOD) DUCT CLEANING, BACK FILLING AND CROWNING , CABLE MARKING and Color coding, testing and site clearing , reporting and documentation

Unit 3 Conditional Maintenance and Planned Repair Activities

Optical fiber tool kit, & tools

Optical fiber testing AND various method(vfl, inspection microscope, bare fiber test, insertion loss test ,optical return loss test, OTDR test, connector end cleaning procedure)

Optical fiber splicing(Requirements And TYPES), Safety while handling optical fiber , safety while splicing ofc, safety after splicing, safety on site during splicing

Unit 4 Assistance in Routine Maintenance

Unit 4.1 – Fault notification

Unit 4.2 – Fault localization and restoration

Unit 4.3 – Preventive and corrective maintenance

Unit 5 Health and Safety

Optical fiber handing precaution, optical fiber fire precaution , safety and warning signs (on equipment, building, work area), safety policy and guidelines,

Personal Safety (PPE, Workmanship safety guidelines)

First Aid Techniques (electrocution, bandaging, victims of H.A) , FIRE HAZARDS (Types of fire, Types of Fire Extinguisher), Emergency procedure

Unit 6 Soft Skills

Grooming (importance, Techniques), communication skills {Department, process of communication(thought, encoding, decoding), Types of communication(verbal, nonverbal)}, Effective listening skills, TEAM WORK (Importance of team work)

Documentation (every complaint, common problems, ticket escalation process, ongoing process), Repotting

Time management (Benefits , time wasters, time management building blocks), critical thinking, problem solving , problem solving skills,