School name: **AFRALTI, School # 758**
Name of course : *FIBER TO THE HOME (FTTH)*
Certification to be given: *CFOS/H*

Pre-requisite: **CFOT or CPCT**

Course Description: *The course will cover Fiber to the home theory, design, installation and testing and trouble shooting. There will be practicals in cable preparation, splicing, termination and testing. This will be done using classroom power point presentations and lab work.*

Instructor who will be giving this course: *Joseph Lugalia #7580001*

5-Day Training Schedule

Day 1	Day 2	Day 3	Day 4	Day 5
Introduction to FTTX	FTTH PON: Passive Optical Network	Fiber To The Home Installation 1. Installation tools 2. Jargon 3. Background 4. Cable Types And Hardware 5. Subscriber Drops	1. Outdoor cable installation 2. Duct, aerial, direct burial 3. Microduct solutions 4. Drop cable installation 5. Fiber terminations on with pigtail	1. Link Testing 2. OTDR Testing PONs 5. OTDR Testing From CO 6. OTDR Testing From Subscriber 7. Other FTTx 8. Testing Issues FTTx Safety Issues
Fiber To The Home Architectures	Triple Play Systems BPON GPON EPON RFOG WDM and PON Other Uses For PONs	Practical: 1. Installation of indoor hardware rack and wall mounting	Practical: Splicing and joint closing	Hands on tests 1. OTDR Testing 2. Troubleshooting
FTTH in MDUs (Multiple Dwelling Units)	FTTX hardware and components Cables Splitters Cabinets Subscriber components	Practical: 2. Fiber arrangement and trunking 3. Connector installations	Testing FTTH 1. Key factors affecting network 2. Testing during construction 3. Testing for commissioning 4. Troubleshooting	EXAM
FTTH PON Types	Practical View samples Set up FTTX link	Practical: 4.Multicore cable termination	Hands tests with Power source and meter, visual fault locator	Course Review and Closing