



School name: AFRALTI

School # 758

Name of course: **DESIGN FOR OPTICAL FIBER NETWORKS**

Certification to be given: CFOS/D

Pre-requisite: CFOT or CPCT

Course Description: The five day course will give participants knowledge and skills they need to determine demand for optical fiber network by collecting data. It will show how to present this data for evaluation. Participants will learn how to carry out detailed design such as route planning, type and quantity of components requirements for outside plant and premises network. The course also covers, documentation project management, making project proposals and choosing contractor.

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

5- Day Schedule

Day 1	Day 2	Day 3	Day 4	Day 5
Introduction to design	1. Link power budget	1. Planning to	Case study 3	Case Study 8
Collecting data		install		
1.Customer		2. Develop test	Long Distance	CCTV
requirements		plan	telecom	surveillance
2.Technology		3. Planning for	Network	Link
requirements		restoration		
3.Business				
requirements				
4.Environmental				
requirements				
5.Vendor				
requirements				
1. Carrying out preliminary	1. Determining Copper,	1. Choosing a		EXAM
survey	fiber and wireless	contractor		
	combination	2. Managing		
2. Fundamental design	2. Choosing	project		
	Transmission equipment	3. Final tests		
	requirements	4. Documentation		
3. Making preliminary	3. Choosing components			
estimates	for premises cabling			
	4. Choosing components			
4. Analysing options	for Outside plant			
5. Seeking approvals				
1. Documentation at	 Making detailed 	Case study 1.	Case Study 5	
preliminary stage	estimates			
2. Detailed survey	2. Documentations at	Fibre to the	Campus LAN	
	detailed design stage	Home	backbone	
1.D.	1.3/1.1			G
1. Data processing	1. Making request for			Course
	proposal\Request for			evaluation and
	quotations			closing
	Evaluations of bids			

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