



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 Fee: AFRALTI Members US\$950 for Non-Members US\$1,140

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 and Philip Ndumia #7580002

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 Network	surveillance Link
2.Technology		3. Planning for		
requirements		restoration		
3.Business				
requirements				
4.Environmental				
requirements				
5.Vendor				
requirements				
1. Carrying out preliminary	1. Determining Copper, fiber	1. Choosing a		EXAM
survey	and wireless combination	contractor		
	2. Choosing	2. Managing		
2. Fundamental design	Transmission equipment	project		
	requirements	3. Final tests		
	3. Choosing components for	4. Documentation		
3. Making preliminary	premises cabling			
estimates	4. Choosing components for			
	Outside plant			
4. Analysing options				
5. Seeking approvals				
1. Documentation at	1. Making detailed estimates	Case study 1.	Case Study 5	
preliminary stage	2. Documentations at detailed			
2. Detailed survey	design stage	Fibre to the Home	Campus LAN	
			backbone	
1. Data processing	1. Making request for			Course evaluation
	proposal\Request for			and closing
	quotations			
	Evaluations of bids			