

# ONE DAY HAND-ON WORKSHOP

ON

## “FIBER TO THE HOME PLANNING AND DESIGN”

Organized By:

Information and Communications Technology Special Interest Group

**TRAINER**

**EN ASRUL NAZRIN BIN AHMAD NURUDDIN**

Date : ~~15<sup>TH</sup> DEC 2022~~ 16<sup>th</sup> FEBRUARY 2023 (THURSDAY)

Venue : C&S and TUS Lecturer Room  
2<sup>nd</sup> Floor, Wisma IEM, P.Jaya, Selangor

Time : 09:00 AM – 06:00 PM

BEM Approval CPD/PDP Hours : 7  
(IEM22/HQ/449/W)

**Closing Date:** 10<sup>th</sup> FEBRUARY 2022

***NO online registration will be allowed after the Closing Date***

**Organized & Hosted by:**  
Information and Communications Technology Special Interest Group (ICTSIG), IEM

**Cancellation Policy**

No cancellation will be accepted prior to the date of the event. However, replacement or substitute may be made at any time with 7 days prior notification and substitute will be charged according to membership status.

**Personal Data Protection Act**

I have read and understood the IEM's Personal Data Protection Notice published on IEM's website at <http://www.myiem.org.my> and I agree to IEM's use and processing of my personal data as set out in the said notice.

**“IEM reserves the right to alter or cancel the programme due to unforeseen circumstances at its discretion”.  
For intending participants who choose to ‘walk in without prior registration’,  
IEM SHALL NOT be responsible for any direct or consequential losses”.**

**For further details, kindly contact:**

The Institution of Engineers, Malaysia  
Bangunan Ingenieur, Lots 60/62, Jalan 52/4, P.O. Box 223 (Jalan Sultan), 46720 P.Jaya, Selangor  
Tel: 603-7968 4001/2 Email: [tazewin@iem.org.my](mailto:tazewin@iem.org.my), [amira@iem.org.my](mailto:amira@iem.org.my)

## SYNOPSIS

Growing Demand for high-speed internet is the primary driver for the new access technologies which enable experiencing true broadband. It leads telecommunication operators to seriously consider the high-volume roll-out of optical-fiber based access networks. Fiber to the Home is a term describing a method to provide broadband internet to household premises. It is considered as a family of Gigabit Passive optical Network, where internet data, voice and video are sent to household premises through a combination of passive optical devices, fiber optic cable and active equipment.

The program focuses on the design of FTTH network which includes Loss budget Calculation, Network design and method of implementation for ISP (Inside Plant) and OSP (Outside Plant). Both methods would require several considerations in which include, cable laying ,method, type of fiber cable, civil work requirement and passive equipment selection.

This one (1) day training program will include theoretical and basic hand-on practical training for fiber optic network using splicing machines, optical Time Domain Reflectometer (OTDR) testing along with other measurement tools.

## TRAINER'S PROFILE



Mr Asrul Nazrin graduated with Degree in Electrical & Electronics Engineering (Hons) from Universiti Tenaga Nasional in year 2001 and has wide range of experience in Telecommunication engineering with over 20 years of practice. He is currently attached with Telecommunication Engineering College (TEC) for providing 5G RF and Fiber Optic Trainings and a practising Consultant involved in many FTTx projects ranging from Residential, Industrial, Education Facilities and Commercial Buildings. He specializes in FTTH Network Planning, Design and Implementation and has worked on various FTTH projects such as Rapid Deployment Fiber, HSBF Project, Jendela Fiber Initiative Project and PR1MA Projects with project located at Kedah, Pahang, Melaka and Johor. He is also an active Member of Malaysia Technical Forum Standard (MTFSB) for Fiber Network Facilities Group which emphasize on creating a standard guideline for Fiber Optic Network.

## PROGRAMME

Time	Topics
08:30a.m. – 09:00a.m.	Registration
09:00 a.m. – 09.10 a.m.	Welcoming & Introduction
09:10 a.m. – 10.30 a.m.	<b>Session 1 :</b> – <i>Introduction to FTTH Design &amp; Planning</i>
10:30 a.m. – 10.45 a.m.	<i>Morning Coffee / Tea Time</i>
10:45 a.m. – 12:30 p.m.	<b>Session 2 :</b> – <i>FTTH Implementation &amp; Installation</i>
12:30 p.m. – 01:30.p.m.	<i>Lunch Buffet</i>
1:30 p.m. – 3:30 p.m.	<b>Session 3</b> – <i>Hands On Practical (FASC Connector Installation)</i> – <i>Testing (VFL, Power Meter, LS)</i> – <i>Fiber Inspection Prove</i>
3:30 p.m. – 3:45 p.m.	<i>Afternoon Coffee / Tea Time</i>
3:45 p.m. – 5:30 p.m.	<b>Session 4</b> – <i>Hands On Practical (Splicing FO Cable)</i> – <i>Testing (VFL, Power Meter, LS)</i> – <i>Testing (OTDR)</i>
5:30 p.m. – 6.00 p.m.	Question & Answer Session End of Hand-on Workshop

## REGISTRATION FORM

**ONE DAY HAND-ON WORKSHOP**  
**“FIBER TO THE HOME PLANNING AND DESIGN”**  
**16<sup>TH</sup> FEBRUARY 2023 (THURSDAY)**  
 Tel: 603-7968 4026 Email : [tazewin@iem.org.my](mailto:tazewin@iem.org.my), [amira@iem.org.my](mailto:amira@iem.org.my)

Fee Categories	Online Fee	Normal Fee
Student Member	RM 150.00	RM 180.00
Graduate Member	RM 250.00	RM 300.00
Corporate Member	RM 400.00	RM 450.00
Non IEM Member	RM 700.00	RM 800.00

No	Name(s)	Membership No.	Grade	Fee (RM)*
SUB TOTAL				
+ 6% SST				
TOTAL PAYABLE				

## PAYMENT INFORMATION

✓ Account Name : THE INSTITUTION OF ENGINEERS, MALAYSIA
✓ Account Number : 232-303-911-0
✓ Bank Name : UNITED OVERSEAS BANK (UOB)
✓ Bank Address : NO 2-6, JALAN TENGAH, 46200 PETALING JAYA, SELANGOR
✓ Swift Code : UOVBYK1025
✓ Email Address for Receiving Remittance Advise : <a href="mailto:finance@iem.org.my">finance@iem.org.my</a> / <a href="mailto:shahrul@iem.org.my">shahrul@iem.org.my</a>

**FULL PAYMENT** must be settled before commencement of the seminar, otherwise participants will not be allowed to enter the hall. If a place is reserved and the intended participant fails to attend the course, the fee is to be settled in full. If the participant failed to attend the course, the fee paid is non refundable. The Registration Fee includes lecture notes; refreshment and lunch.

For **ONLINE REGISTRATIONS**, please note that payment **MUST** be made **BEFORE** the closing date. If payment is not received within the stipulated time, the registration fee will be reverted to the normal registration fee.