

SYNOPSIS

This course is designed to impart the fundamental knowledge in “Fiber to the x” (FTTx), where ‘x’ may represent ‘*building*’ (FTTB), ‘home’ (FTTH), ‘curb’ (FTTC) etc. Commonly known simply as the FTTH, it is the next generation of network standards, which is being widely implemented all over the world. This course shall provide the exposure to the participants on the importance of the technology, the fundamental of the optical fiber as the core, components and its network. At the end of the day, participants shall go through an understanding assessment before they are qualified for certification.

This seminar is targeted at all those involved in the design and construction of single and multi-rise buildings, and communication network, including, approving agencies, consultants, developers, contractors and designers. The topics will also highlight the improvements pertaining to telecommunications architecture of buildings wanting to adopt FTTH.

TENTATIVE PROGRAMME

Time	Event
0830	Arrival of participants
0900	Introduction to Optical Communications <ul style="list-style-type: none">• Introduction of optical fiber technology and operational principles• Optical Fiber construction for various ITU-T compliant optical fibre and their key features• Optical Fiber connectivity methods available in the market and their selection criteria• Optical Fiber characteristics: The Do’s and Don’ts when handling fibre• Optical Fiber cleanliness: The No:1 enemy for FTTH networks
1030	Break + Refreshment
1100	Introduction to FTTH Components and Testing <ul style="list-style-type: none">• Introduction to Common Optical Distribution Network Components in FTTH• FTTH Test & Measurement Equipment and how are they different from conventional ones• The importance of Insertion Loss & Optical Return Loss Testing• FTTH Testing Phases and its respective methodologies
1300	Lunch
1400	Broadband Infrastructure Building By-Laws & Standards <ul style="list-style-type: none">• Technical Standards and Infrastructure Requirements for Fixed Network Infrastructure• Minimum FTTH installation guidelines and standards (MTSFB 002:2009)• Minimum FTTH associated international technical and safety specifications.• International Electro-technical Commission (IEC) Standards• Key functional requirements for a FTTH network
1530	Break + Refreshment
1600	Summary + Understanding Assessment
1700	End

BIODATA OF THE SPEAKER

Dr Tan Ching Seong is an Associate Professor at Graduate Institute of Engineering, Multimedia University. He also currently serves as the Honorary Secretary of TEEAM and Vice Chairman of MyCIE. Dr Tan is active in consultancy and is a consultant to many companies including SenkoAdvanced Components, Finestar Ltd, etc. He is a recipient of the J. William Fulbright Award 2012/2013.

Dr Tan received his first degree in 1998 from the University of Malaya. He obtained his PhD in Engineering in 2006. Academically, he has served in various institutions as director, department head, research centre chair, and research team leader since 2005. He is a senior member of IEEE, a member of the SPIE (International Society of Optical Engineering) and a Chartered Engineer (UK). He has co-authored an engineering text book, titled: Applied Engineering Failure Analysis: Theory and Practice. He is the author of over 25 peer reviewed journal papers and over 30 peer reviewed conference papers.

CANCELLATION POLICY

IEM reserves the right to postpone, reschedule, allocate or cancel the course. Full refund less 30% if cancellation is received in writing more than 7 days before start date of the event. No cancellation will be accepted prior to the date of the event. However, replacement or substitute may be made at any time with 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.