



Complete Broadcasting Technology Solutions For You Now and Tomorrow

COURSE AVAILABLE

- **ANALOG VIDEO TECHNOLOGY COURSE**
- **DIGITAL VIDEO TECHNOLOGY COURSE**
- **MPEG-2 COMPRESSION TECHNOLOGY COURSE**
- **MPEG-4 COMPRESSION TECHNOLOGY COURSE**
- **IPTV TECHNOLOGY COURSE**
- **AUDIO TECHNOLOGY COURSE**
- **FILE-BASED VIDEO COURSE**
- **4K VIDEO INTRODUCTIONS COURSE**

IPTV TECHNOLOGY COURSE

The training course is dedicated to any attendee who expresses interest in learning more about IPTV. It is a great opportunity for any actors of the TV ecosystem such as TV broadcasters, network operators, terminal manufacturers and system integrators to learn more about this technologies and systems.

VIDEO EXPERT 24 x 7

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COURSE OBJECTIVE

This training course aims at providing basic theoretical and practical knowledge on the technology of IP Video, IPTV monitoring and measurements.

COURSE PRE-REQUISITE

No specific television or broadcast knowledge is required. But general familiarity with technical concepts is assumed. Some knowledge, experience and exposure in IT Technology and Video/Audio principles will be better.

COURSE DURATION

This training course usually takes place over 2 days. This could be extended on specific request.

TRAINER

Training course led by the technical expert who has a few years of working experience in analog video, digital video, audio technologies, MPEG and RF; and has conducted related equipment and technology training programs to a wide range of industries training from broadcast to telecommunications to education to the military. Trainer was trained by the international training consultancy.

COURSE FORMAT

Classroom explanation and demonstration.

Each delegate completing this course will receive a full set of course note and certificate of attendance.

Seats are limited, please contact us for immediate registrations

Workshop fees inclusive of:

- Printed workshop material
- Certificate of completion

Fees:	RM 1800 per pax
Remarks:	Class starts with minimum of 3 pax

Register Today

Tekmark Broadcast Sdn Bhd
B-G-8, Endah Promenade
No. 5, Jalan 3/149E, Taman Sri Endah
Sri Petaling, 57000
Kuala Lumpur
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COURSE CONTENT

Introduction

- IPTV Features
- IPTV Vs. Internet TV
- Overview of IPTV Architecture
- IPTV system Overview
- IPTV Delivery technologies

Video Compression

- Need for Compression
- Key to Compression
- MPEG Compression Technologies

MPEG Transport Stream

- System Layer – MPEG Stream Types
- Program Stream & Transport Stream Packet Structures
- CBR vs VBR
- Program Clock Reference

IP Networking Fundamentals

- Network Overview
- Layer & OSI Model
- IP Addresses, Datagrams and Packets
- IP Network Equipment

Video Over IP

- Video Encapsulation
- Encapsulating Media Data
- Transport Protocols
- Packet Transport
- Transport Methods

IPTV Signalling

- Basic Concepts
- Unicast & Multicast
- Joining & Leaving Multicast

Adaptive Bitrate Streaming

- Introduction to Multiscreen
- Benefits and challenges of ABR
- Traditional streaming vs. Adaptive streaming

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COURSE CONTENT

ABR Implementation

- Adaptive Streaming Details
- Multiscreen Players
- Format Comparison
- ABR Reception

IPTV Issues & Problems

- IPTV Challenges
- Video Problems
- Physical Layer & Protocol Stack Problems

IPTV Monitoring & Measurements

- Network Impairments
- Three Principles of IPTV
- IP Video Flow Behaviour
- IPTV QoS / QoE
- Measurement Parameters
- IPTV Test Methodology
- Test Tools & Technology
- Cross Layer Measurement & Test
- Distributed Multi-Layer Monitoring

OTT Monitoring and Measurements

- Quality of Services (QoS)
- Quality of Experience (QoE)

Summary

COMPANY DETAILS

Company Name	
Name	
Company Address	
Telephone Number	
Email	
Mobile	

TRAINING DETAILS

Please Tick	Description	Course Code	Date
	Analog Video Technology Course	TMB-AVT-001	
	Digital Video Technology Course	TMB-DGV-001	
	MPEG-2 Compression Technology Course	TMB-MPEG2-001	
	MPEG-4 Compression Technology Course	TMB-MPEG4-001	
	IPTV Technology Course	TMB-IPTV-001	
	Audio Technology	TMB-AT-001	
	File-Based Video Course	TMB-FBV-001	
	4K Video Instructions	TMB-4K-001	

DETAIL OF PARTICIPANTS

No	Name	Position	Contact Number	Email	RM

TERMS AND CONDITIONS

1. Course seat will be confirmed upon receipt of company purchase order/registration form and full payment before course commencement
2. Cancellation must be made no later than five (5) working days prior to the scheduled date. Refund will NOT be entertained for NO SHOW cases
3. Attendee substitutions are permitted. Please inform us of any changes least 5 working days prior to the start of the course
4. Training dates and cost are subject to change without prior notice
5. Payment can be made via cheque. Cheque(s) made payable to: Tekmark Broadcast Sdn Bhd

Authorized Signature

Name:

Position:

Company Stamp

Tekmark Broadcast Sdn Bhd

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