



## **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/H.264 COMPRESSION COURSE**
- **IPTV TECHNOLOGY COURSE**
- **AUDIO TECHNOLOGY COURSE**
- **FILE-BASED VIDEO COURSE**
- **4K VIDEO INTRODUCTIONS COURSE**

### **MPEG-4/H.264 COMPRESSION COURSE**

The course is suitable for technical staff working in an MPEG video environment who need an understanding of the specific technologies and issues associated with implementing and working with HDTV, MPEG-2 Transports and MPEG-4 video coding systems. It is a great opportunity for any actors of the TV ecosystem such as TV broadcasters, network operators, terminal manufacturers, system integrators and those who need a technical overview and 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 Digital Video system and standard. It provides a wide overview of market segments and applications that would be addressed with this standard. The course also aims to provide the participants with a good understanding on how MPEG-2 transport streams can be used to carry services encoded in MPEG-4, service information is delivered as well as overview of television broadcast systems and infrastructures.

### 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 analog, digital video and MPEG-2 will be better.

### COURSE DURATION

The 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 2500 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  
Tel: +603-9057 8999  
E-mail: [tekmark.kl@tekmarkgroup.com](mailto:tekmark.kl@tekmarkgroup.com)

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- IPTV TECHNOLOGY COURSE
- AUDIO TECHNOLOGY COURSE
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## COURSE CONTENT

### MPEG-4 and H.264 Overview

- Introduction,
- Standard and reference documents
- Overview of MPEG-4 System Part-2
- Overview of H.264

### Video Coding Concept

- Introduction
- Video object and video object plane
- Temporal Model
- Image Model
- Entropy Coder

### MPEG-4 Part 2

- Coding rectangular frames
- Motion compensation of VOP
- Scalable video
- Texture coding
- Coding synthetic visual scenes

### MPEG-4 Part 10

- H.264 Codecs
- H.264 modes: I, P, B, SP and SI
- Slices and macro blocks
- Context-based Adaptive Binary Arithmetic Coding (CABAC)
- Macro prediction
- H.264 Structure
- Baseline Profile
- Main Profile
- Extend Profile

### Transport Stream

- TS Format
- TS Packet and Header
- Service Information (SI)
- MPEG Tables

### Conditional Access

- Mechanism,
- Standards
- Command interface

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## **COURSE CONTENT**

### **MPEG Analysis**

- Transport Statistic View
- Program View
- Service Information Tables Monitoring
- TR101-290
- Elementary Stream

### **Summary**

- MPEG-2/MPEG-4/H.264 Comparison

**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 Course	TMB-MPEG2-001	
	MPEG-4/H.264 Compression Course	TMB-MPEG4-001	
	IPTV Technology Course	TMB-IPTV-001	
	Audio Technology Course	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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