

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 ranging from broadcast to telecommunications to education to the military. Trainer was trained by the international training consultancy.

Format

Classroom explanation and demonstration

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

Course Content

- ❖ MPEG-2 Overview
 - ✚ Standard and Reference Documents
 - ✚ Applications

- ❖ Video Compression
 - ✚ Pre-processing
 - ✚ Discrete Cosine Transform
 - ✚ Variable Length Coding
 - ✚ Run Length Coding
 - ✚ Intra-frame Redundancy
 - ✚ Inter-frame Redundancy
 - ✚ Group of Picture (GOP)
 - ✚ Profiles and Levels

- ❖ Audio Compression
 - ✚ Audio Masking
 - ✚ MPEG Audio
 - ✚ MPEG-2 Audio

- ❖ MPEG-2 Transport Stream
 - ✚ TS Format
 - ✚ TS Packet and Header
 - ✚ Presentation Time Stamp (PTS)
 - ✚ Decode Time Stamp (DTS)
 - ✚ Service Information (SI)
 - ✚ MPEG Tables

- ❖ Conditional Access
 - ✚ Mechanism
 - ✚ Standards
 - ✚ Command Interface

- ❖ Program Clock Reference (PCR)
 - ✚ Mechanism
 - ✚ Standard and Specifications
 - ✚ PCR Measurements

- ❖ TV Distribution Systems
 - ✚ Terrestrial Broadcast Delivery
 - ✚ Satellite Television Delivery
 - ✚ Cable Television Delivery
 - ✚ IPTV Delivery

- ❖ MPEG Analysis
 - ✚ Transport Statistic View
 - ✚ Program View
 - ✚ Service Information Tables Monitoring
 - ✚ TR101-290
 - ✚ Elementary Stream

- ❖ Summary