

## INTRODUCTION to HIGH DEFINITION PRODUCTION

### **Aims**

This course is designed for non technical staff such as producers, editors, set designers, lighting, camera men and audio mixers. It aims to give them a good grounding in the changes in the production process necessary for High Definition Television. As much as possible topics are presented in a non technical jargon free manner.

### **Topics Covered**

The course starts with a brief explanation of the common terms and meanings of the numbers used to describe television systems. It moves on to cover the relationships between human visual perception and television systems focusing on their relationship to HD. This leads on to the implications for various aspects of the content production and delivery process. The course also covers multi format production and optimising workflows for an HD/SD environment.

### **Results**

At the end of the course attendees should feel comfortable with all the new terms and jargon associated with the new standards. They should also have gained a broad understanding of how High Definition television will impact on their creative area and the factors they need to consider for successful HD productions

### **Duration,**

This is normally a one day course involving traditional lecture style, interactive sessions and demonstrations where practical.

### **Location and timing**

The course can be conducted at your premises at a time to suit you.

# Contents

## **Introduction**

- What is High Definition Television?
- The common formats
- High Definition world wide

## **Human Perception**

- Detail
- Movement
- Colour

## **Television Systems**

- The meaning of resolution
- Interlace and progressive
- HD and SD standards compared.

## **Aspect Ratios**

- What does it means
- Reasons for wide screen
- Ways to convert

## **Shooting High Definition**

- HD Cameras and Lenses
- Consumer HD
- Studio and location considerations

## **Recording High Definition**

- Portable systems
- Storage/archive
- Play out

## **Audio in HD**

- Multi channel audio formats
- Distributing audio and video

## **High Definition Displays**

- Requirements
- Types of display
- Monitoring HD in the production

## **HD and SD together**

- Converting SD to HD
- Converting HD to SD

## **Delivering HD to the Home**

- Consumer formats
- Terrestrial Transmission
- Cable and Satellite