

Fibre Optics in Signal Distribution

Suitability

This programme is suitable for participants involved in the TV/RF distribution industry with a desire to learn the developments of Fibre Optic Technology and associated equipment. A reasonable understanding of current Integrated Reception Systems (IRS) would be desirable but not absolutely necessary.

Aims

This programme will enable participants to understand the working and planning of a typically sized fibre optic delivery system.

Objectives

Over this 1-day programme participants will become practically familiar with all the components of a working fibre optic system.

Content

- The history and development of fibre optic technology.
- The importance of Health and Safety when working with fibre optics.
- Types of cables and connectors used in the fibre optic industry.
- The applications of fibre optics with an understanding of the technology.
- Components contained within the systems and their practical application.
- Calculations of signal losses & gains within them.
- Design three typical sized fibre optic systems.
- Fusion splicing and termination of fibre optic cables and connectors.
- Fibre containment methods.
- Demonstrate an ability to install and fault find on fibre optic systems in the TV industry.
- Major manufacturer latest fibre IRS systems explained.

Learning Outcomes

This 1-day programme will enable all participants to;

- Work with the main component of a fibre network.
- Carry out fusion splicing of cables.
- Connect and terminate fibre cable.
- Design a fibre optic delivery system.

Learning Style

A PowerPoint led delivery including industry videos, clear theoretical explanations and hands-on applications. Continual informal and formal assessments will monitor progress throughout the day.

Assessment Method

The assessment method for this programme is by means of practical assessment exercises and a multiple choice open book assessment paper with a pass mark of 65%.

Programme Duration

This programme is run over 1 day.

Costs

Members £225

Non-Members £330