

IRS FIRS Maintenance & Fault-Finding

Suitability

This programme is ideally suitable for participants with a high level understanding of MATV/SMATV/IRS/FIRS installation but is not restrictive to this element. An understanding of TV Distribution and Satellite/Aerial installation practices is ideal.

Content

- Health & Safety considerations
- Terminologies
- Ideal Service Maintenance Equipment
- Practical Terminate Patch panels
- Common Connectivity
- Why is maintenance important
- What is IRS/FIRS
- Where are IRS/FIRS systems used
- Step by step maintenance
- What measurements are used to find faults or maintain a system
- Learn about the importance of 75Ohm terminating and some of the undesired effects of not using this
- Where to start fault diagnosis or service call out
- What is an essential part of carrying out Service work
- Practical Fault-Finding Exercises Visual Inspection
- Practical Fault-Finding with Measurements
- Practical Fault-Finding within the Copper side of a IRS/FIRS system
- Practical Fault Finding within the Fibre Side of a System
- Practical Show Effect of Removal of Filter/With High levels of 4/5G present from the Aerial
- Practical Show effect of over driving and Amplifier Filter
- Practical Show effect of Injecting RF/IF levels that are too High on the Multiswitch or a Fibre Transcoder (Transmitter)
- Demonstrate the idea of cataloguing all levels according to what is present on arrival at a system to what is left when leaving a system either for Maintenance or Service Call Out

Learning Outcomes

At the conclusion of this programme participants will;

- Understand terminology involved with IRS/FIRS Systems
- Have a competent understanding of fault-finding procedure
- How to use various meters effectively
- Understanding the importance of using the correct meters
- Achieve an understanding of the effects of too high a signal Level and too low a signal Level
- Be competent with working with fibre connectivity to find faults (respecting cleaning of connectors)
- Understanding fault-finding steps
- Understand the reason for having prior knowledge of an IRS FIRS system design and distribution layout.

Aims

This programme delivers a basic understanding of Maintaining an IRS/FIRS distribution system and Service fault-finding. Using visual inspection and Test meters to carry out service calls and maintenance.

Objectives

This 1-day programme will enable participants to understand the various signal levels required on an IRS/FIRS, What common Faults are found, where to start assessing and what certain symptoms may present when a fault occurs.

Learning Style

This 1-day programme is classroom based by PowerPoint and contains a mix of practical demonstrations with hands-on learning exercises.

Assessment Method

Continual information and formal assessments will monitor progress throughout. Practical assessment exercises and multiple choice open book assessment paper with a pass mark of 70%.

Duration

This programme is run over 1-day.

Programme Cost

Member Rate £215
Non Member Rate £340