



Broadband Training from the SCTE™

SCTE Training Franchise

The Society supplies a series of training courses for technicians in the telecommunications industry.

The SCTE range of courses:-

SCTE self study training courses using the SCTE's learning management online system

- Installation Technician, Service Technician, Network Technician, Network Architecture and Design, Fibre Optic Transmission for Technicians, Understanding Wi-Fi and Wireless Technology Course and Introduction to DOCSIS 3.1.

SCTE self study training courses using a reference manual (available as A4 handbooks in printed form or as online page-turning documents).

- Installation Technician, Service Technician, Network Technician, Network Architecture and Design, Fibre Optic Transmission for Technicians, Business Data solutions and Understanding Wi-Fi and Wireless Technology.

SCTE Classroom led training courses

- Introduction to Broadband and Co-Axial Networks RF Design.

For further details of the SCTE training courses please contact Broadband Training address below.

SCTE training courses provide valuable information to the broadband industry. Online exams are used to assess the students and award certificates to successful candidates.

The assessment structure is easy to use, questions are randomly selected and pass/fail results are given immediately.

The Society is basically offering a very simple franchising model for these courses.

The core syllabus, examinations and certification are controlled by the SCTE to ensure that the course accreditation is maintained at all times.



The model for the franchise holder.

The courses are supplied to the franchise holder at the SCTE member rate - each includes either online manuals or hard copy manuals and online examination and certification.

The franchise holder may sell the courses as stand-alone, distance-learning courses. Additional charges may be made for providing hands-on training. The franchise holder sets the price charged to the student as this is essentially a market-driven price for the holder of the franchise to determine.

SCTE™ - The Society for Broadband Professionals

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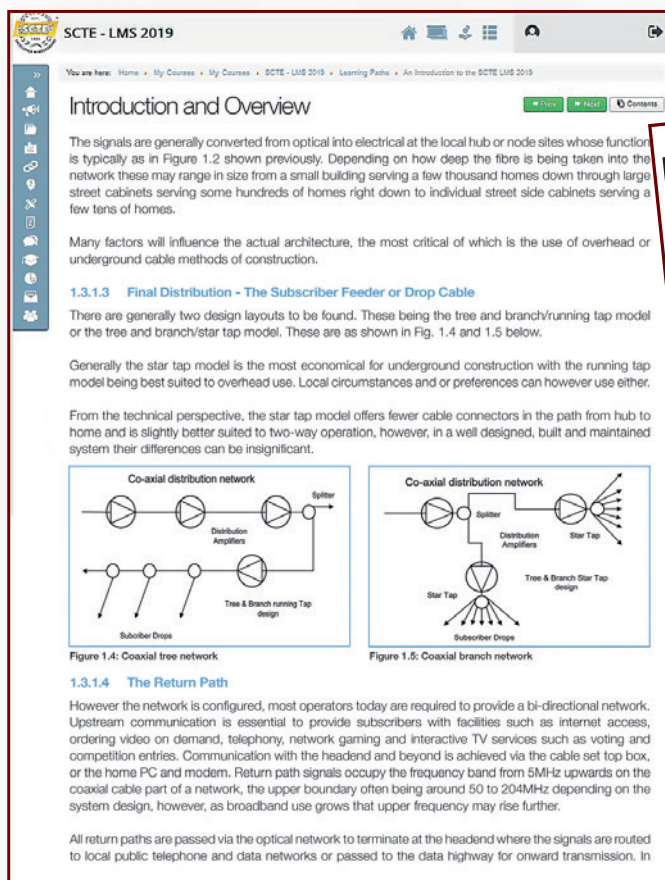


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For the avoidance of doubt:

1. SCTE Training Partners must be Corporate Members of the SCTE™ (The Society for Broadband Professionals): minimum charge £160 per annum plus VAT where applicable.
2. There is a nominal one-off charge of £500 to become an SCTE™ Training Partner (Franchisee).
3. Appointed training partners may charge students up to the amounts in the attached SCTE™ price list for courses delivered by distance-learning (re-selling).
4. Appointed training partners may provide added-value tutoring/instruction at whatever market rate they determine.
5. No course will be sold or delivered without the SCTE™ online examination and certification.
6. The SCTE™ reserves the right to monitor the performance of its Training Partners and to withdraw franchise permission where necessary to maintain the quality of its training products.

The courses may be purchased through Broadband Training. The accreditation and certification is carried out by the SCTE™.



SCTE - LMS 2019

You are here: Home > My Courses > My Courses > SCTE - LMS 2019 > Learning Path > An Introduction to the SCTE LMS 2019

Introduction and Overview

The signals are generally converted from optical into electrical at the local hub or node sites whose function is typically as in Figure 1.2 shown previously. Depending on how deep the fibre is being taken into the network these may range in size from a small building serving a few thousand homes down through large street cabinets serving some hundreds of homes right down to individual street side cabinets serving a few tens of homes.

Many factors will influence the actual architecture, the most critical of which is the use of overhead or underground cable methods of construction.

1.3.1.3 Final Distribution - The Subscriber Feeder or Drop Cable

There are generally two design layouts to be found. These being the tree and branch/running tap model or the tree and branch/star tap model. These are as shown in Fig. 1.4 and 1.5 below.

Generally the star tap model is the most economical for underground construction with the running tap model being best suited to overhead use. Local circumstances and or preferences can however use either.

From the technical perspective, the star tap model offers fewer cable connectors in the path from hub to home and is slightly better suited to two-way operation, however, in a well designed, built and maintained system their differences can be insignificant.

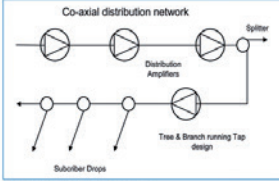


Figure 1.4: Coaxial tree network

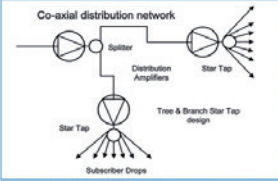


Figure 1.5: Coaxial branch network

1.3.1.4 The Return Path

However the network is configured, most operators today are required to provide a bi-directional network. Upstream communication is essential to provide subscribers with facilities such as internet access, ordering video on demand, telephony, network gaming and interactive TV services such as voting and competition entries. Communication with the headend and beyond is achieved via the cable set top box, or the home PC and modem. Return path signals occupy the frequency band from 5MHz upwards on the coaxial cable part of a network, the upper boundary often being around 50 to 204MHz depending on the system design, however, as broadband use grows that upper frequency may rise further.

All return paths are passed via the optical network to terminate at the headend where the signals are routed to local public telephone and data networks or passed to the data highway for onward transmission. In



An Introduction to Broadband: A broad overview for the non-technical.

1. Metallic and Fibre Cables.
2. In the Home.
3. Mobile Devices.
4. Analogue and Digital.

Installer's Course: A comprehensive course for installation technicians to be able to install CATV systems efficiently and effectively in a customer environment.

1. Overview of Cable TV Systems.
2. Communications Theory.
3. Signal Distribution including Coax Cables.
4. Installation and Troubleshooting.

Service Technician's Course: An all-embracing course for service technicians.

1. Service and Maintenance.
2. Communications Principles.
3. Networks.
4. Measurement and Test Equipment.

Network Technician's Course: An extensive course for network technicians covering commissioning and restoring services in CATV.

1. Service and Maintenance.
2. Installation and Commissioning.
3. Measurement and Testing.

Network Architecture and Design Course: A thorough examination of the main components of a network and the equipment used.

1. Network Architecture.
2. Network Components.
3. Network Design.

Fibre Optic Transmission for Technicians Course: A comprehensive theoretical course for technicians using fibre optics in CATV.

1. Principles and Development.
2. Properties of Cables and Connectors.
3. Applications and Testing Methods.
4. Fibre Systems.

Co-Axial Networks RF Design Course: A thorough examination of the main components of an RF network and the equipment used.

1. Design Basics.
2. Network Components.
3. Network Design.
4. Tutored Real World Example.

Business Data Solutions Course: A broad overview of the required technology for broadband business installations.

1. Digital Telephony.
2. HFC Networks.
3. Digital Networks.
4. Understanding Wi-Fi.
5. Optical Theory.

Understanding Wi-Fi and Wireless Technology Course: An in-depth review of Wi-Fi and wireless equipment and their usage.

1. Wi-Fi Overview.
2. Wi-Fi Technical.
3. Wireless Technologies.
4. Troubleshooting Wireless.

Introduction to DOCSIS 3.1 Course: An introduction look at DOCSIS 3.1 technology used in business and to the home.

1. DOCSIS Background.
2. The Protocol Stack.
3. Modulations.
4. FEC.
5. Introduction to Measurements.



Broadband Training from the SCTE™

Ten courses are now available

Training courses - Price Guide

Endorsed by the SCTE™ - The Society for Broadband Professionals | Deliverable by Broadband Training.

Price List Per Person	Member			Non-Member		
	Reference Manual (Hardcopy)	Course (using reference Manual)	LMS Online	Reference Manual (Hardcopy)	Course (using reference Manual)	LMS Online
Introduction to Broadband	-	£35	-	-	£35	-
Installation Technician's	£45	£95	£45	£55	£120	£140
Service Technician's	£50	£105	£50	£65	£130	£150
Network Technician's	£60	£120	£140	£75	£155	£175
Network Architecture and Design	£60	£120	£140	£75	£155	£175
Fibre Optic Transmission for Technicians	£60	£120	£140	£75	£155	£175
Co-Axial Networks RF Design	-	£110	-	-	£115	-
Business Data Solutions Course	£60	£120	£140	£75	£155	£175
Understanding Wi-Fi and Wireless Technology Course	£60	£120	£140	£75	£155	£175
Introduction to DOCSIS 3.1 Course	-	-	£140	-	-	£175

- LMS Online courses are using the SCTE Learning Management System
- Tutored courses for Introduction to Broadband and Co-Axial Networks RF Design are available from Broadband Training and pricing does not include instructor expenses where required.
- The price of the courses and LMS courses includes - the online assessment, on passing certification will be provided by the SCTE.
- Online reference manual (page turning) can replace the hardcopy reference manual at a £10 price reduction.
- Prices are for guidance only - please contact the SCTE office for current pricing.

Visit the SCTE™ website for detailed information on these courses.

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