

**Designed for Cable TV Operators
and Service Technicians**



Luminato headend Training Programme



Luminato Headend

- Operating Training
- Advanced Operating Training

The Luminato Headend training courses are targeted for Headend Operators, giving the best practices to operate the Luminato digital headend platform.

Teleste offers basic Operating Training courses and Advanced courses, which are tailored to the specific requirements of the participants.

Operating Training

The basic operating courses include: Luminato introduction, DVB definitions, PSI/SI-tables, content protection, IP and Video over IP, Luminato hands-on exercises

Advanced Operating Training

The advanced training courses content is based on the specific requirements of the participants. The training topics can be selected from a list in the online registration form.

Examples of the advanced training content: stream redundancy, 1+1 backup, SNMP monitoring, scrambling with ConaxCAS and using the Luminato with Common Line Interface.

Broadcast Manager Training Programme

The Broadcast Manager training courses are targeted for Headend Operators and Service Technicians. The courses give basic understanding how to operate, maintain and monitor Broadcast Manager.

Teleste offers basic and advanced Operating Training courses.

Operating Training

The basic operating courses include: Broadcast Manager general setup and system description, UI Descriptions and Usage, Network Module (PSI/SI handling), Event Module (EPG/EIT data), Bootload Module (STB sw updates), Control Bar: Input/Output, System and Help.

Advanced Operating Training

The in-depth Broadcast Manager training courses are tailored to the specific needs of the participants. The topics can be selected from a list in the online registration form.

Examples of the advanced training content: centralized network management, regional Broadcast Managers, configuring IPTV, EPG data fetching and EIT special descriptors.



Broadcast Manager

- Operating Training
- Advanced Operating Training

HFC Training Programme

The HFC training courses are designed for HFC network operators and Service Technicians to learn how to monitor, measure, adjust and maintain live HFC-networks.

Teleste offers basic and advanced HFC Specialist training courses. The advanced courses are tailored to the specific requirements of the participants.

HFC Specialist Training

The basic HFC training courses are targeted for Service Technicians to carry out basic maintenance actions.

The courses combine theory with hands-on exercises to learn how to adjust and measure live HFC-networks. The training content covers basic components and technology used in HFC-networks.

Advanced HFC Specialist Training

The advanced training courses are designed to offer HFC network operators and Service Technicians skills and know-how for network management, monitoring and to carry out in-depth maintenance of HFC-networks.

The trainings are tailored to meet the customers needs. The courses topics can be selected from a list in the online registration form.

Examples of the advanced training content: RFoG, designing and adjusting optical link levels and parameters, designing FTTH networks and using network management to rule your HFC-network.



HFC Training

- [HFC Specialist Training](#)
- [Advanced HFC Specialist Training](#)

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* Or contact Your local Teleste sales representative.

Training Courses

DTV measurements

Course gives an overview of different network environments like DVB-C, -T and -S. Which quality requirements are specified for each network. Measurements like S/N, MER, BER will be studied in theory and in practice making sure understanding quality requirements of digital TV signal.

Video over IP basics

Get familiarized with IPTV standardization and requirements. What equipment is needed to build up an IPTV headend? What do the terms like multicast, unicast, IGMP, RTSP, MTU, RTP and UDP have to do with IPTV? Getting familiar with IPTV services. Packet jitter and other important parameters will be measured from real live IPTV solution.

Guide to digital TV

To study and understand Digital TV transmission on different networks, one needs to know several abbreviations. Course gives You an overview of digital TV-technology and -services. Digital TV technology is constantly changing. New standards like DVB-T2, DVB-C2 and CI+ are presented in the course.

PSI/SI-tables

PSI/SI-tables are part of digital multiplex or IPTV service. What is the purpose of each table and which tables are needed to make a multiplex? Exercises are made with standalone PSI/SI-editor and Luminato headend platform. Results are confirmed with a STB and Dektec stream analyzer.

CATV headend technology

Covers equipment and technology used at a modern digital headend. You will learn which equipments are needed for content acquisition, de-scrambling, processing, re-multiplexing, table insertion and scrambling. What is difference between IPTV or VOD headend solutions? Stream processing methods like statistical multiplexing, transcoding, peak limiting, transrating, scrambling and encoding will be presented and explained in this course.

TCP/IP and Ethernet Networking

The course will give You a clear understanding of networks, used technologies, network components, protocols, IP addresses, OSI model, VLANs, DHCP, QoS, network security issues and troubleshooting methods. The training gives You an excellent starting point to work with the networks.

