SBE University consists of online, on-demand courses designed to provide relevant and convenient continuing education to broadcast engineers. These affordably priced courses provide expert instruction on a variety of technical radio and television topics.

ENG Truck Operations
SBE Members: $85   Non-Members: $85

Author: Mike Seaver, CBT

This course, designed for non-technical personnel, covers the basics necessary to produce a safe, good quality field-produced shot from both a microwave based vehicle as well as one utilizing satellite uplinks. Topics include safety, the basics of microwave principles and operation, audio, video, various IFB techniques, lighting basics, use of wireless microphones and other advanced applications.

Television Video and Audio - a Ready Reference for Engineers
SBE Members: $99   Non-Members: $139

Author: Randy Hoffner

The purpose of this course is to give the television engineer a solid grounding in the various aspects of video and audio for television, and to serve as a ready reference to the pertinent standards.

The New Lifecycle of Media - IP and File Based Architecture and Workflows
SBE Members: $99   Non-Members: $139

Author: Gary Olson

This course will provide an understanding of all the technical considerations that need to be taken into account in a file-based architecture, as well as the changing roles and responsibilities engineers will have in designing and maintaining these new systems.

8-VSB
SBE Members: $99   Non-Members: $139

Author: Douglas W. Garlinger, CPBE, 8VSB, CBNT

The purpose of the SBE 8-VSB course is to give the student an overview of the 8-VSB system from end to end, providing all the basic information he or she will need to understand the nature of 8-VSB modulation and to recognize deficiencies in the transmitted signal.

AM Antenna Computer Modeling
SBE Members: $99   Non-Members: $139

Author: Cris Alexander, CPBE, AMD, DRB

This course will take the student through the modeling and measurement process specifically for AM broadcast antennas, providing a general understanding of the process and procedures as well as operation of the recommended software.

AM Antenna Systems
SBE Members: $65   Non-Members: $85

Author: Cris Alexander, CPBE, AMD, DRB

This course takes the student through every facet of AM antenna systems in all their forms, dealing with each element or variation separately and pulling the elements together to show how they are used in concert.

Broadcast Audio Processing
SBE Members: $80   Non-Members: $105

Author: Stephen M. Poole, CBRE, AMD, CBNT

This course, intended for the intermediate-to-experienced broadcast engineer, takes a practical, real-world approach to audio processing. Topics include loudness and the human ear, gain control, limiting and clipping, adjusting a wideband processor for voice and multi-band processing.

Computer Networking for Broadcast Engineers
SBE Members: $99   Non-Members: $139

Author: Paul Claxton, CPBE, CBNE

The purpose of this course is to give the student an introduction to the fundamental concepts of computer networking. This course will assist the broadcaster in passing the SBE Certified Broadcast Networking Technologist exam.

FM Transmission Systems
SBE Members: $80   Non-Members: $105

Author: Cris Alexander, CPBE, AMD, DRB

This course will help the student understand the proper design, installation and maintenance of an FM transmission system and how its components and variables related to those components impact the performance of an FM station.

Matching Networks and Phasing
SBE Members: $80   Non-Members: $105

Author: Cris Alexander, CPBE, AMD, DRB

The purpose of this course is to give the student a good overall understanding of the various types of networks used in an AM transmission system, the situations in which each might be used and calculating the leg values thereof.

Use of the Simple Network Management Protocol
SBE Members: $85   Non-Members: $105
in Broadcast Monitoring and Control Systems

Author: Tony Peterle, CSRE

This course will offer a basic description of how SNMP works – the structure and types of SNMP messages, how they are transported over the network, and how they can be used to monitor and control remote equipment.

Voice Telco Networks & Studio Interface Systems
SBE Members: $65   Non-Members: $85

Author: Steve Church

The course provides the student with a working understanding of how a signal gets from end to end, how to troubleshoot telco problems and how to properly interface broadcast equipment to the telco world.

SBE Leadership Development Course

Instructor: Purdue Professor Rodney Vandeveer
SBE Members: $590   Non-Members: $640

This three-day highly interactive course challenges you to refine your leadership skills as you better understand and improve how you interact with others. Subjects include: understanding the dynamics of leadership, CAPS study: discover your leadership behavioral style, communications, effective motivation techniques, building winning teams and much more.

Webinars by SBE consists of online, on-demand seminars on subjects of interest to broadcast engineers.

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Chief Operator Responsibilities - Live Webinar on Oct 17   *SBE Members: $49   Non-Members: $69*

Presenter: Dennis Baldridge, CPBE, 8-VSB, AMD, DRB, CBNT

This training covers the responsibilities of the designated chief operator and the duties necessary to fulfill this position.

BXF: Improving Broadcast Operation Workflow - Live Webinar on Nov 27   *SBE Members: $49   Non-Members: $75*

Presenter: Chris Lennon

This webinar will provide an overview of what BXF is, where it came from, and what its capabilities are.

IP Networking, part 2- Routing and Switching - Live Webinar on Dec 4   *SBE Members: $49   Non-Members: $75*

Presenter: Wayne Pecena, CPBE, 8-VSB, AMD, DRB, CBNE

The webinar is the second in a series that aids in the self-study for the SBE Certified Broadcast Networking Engineer™ (CBNE™) certification exam.

IP Networking, part 1- the OSI Model and Layers   *SBE Members: $49   Non-Members: $69*

Presenter: Wayne Pecena, CPBE, 8-VSB, AMD, DRB, CBNE   *Length: 110 min*

The webinar is the first in a series that aids in the self-study for the SBE Certified Broadcast Networking Engineer™ (CBNE™) certification exam.

TV White Space Devices and Wireless Microphones   *SBE Members: Free, thanks to Shure Non-Members: $39*

Presenter: Joe Snelson, CPBE, 8-VSB   *Length: 90 min*

An overview of what the FCC has authorized for unlicensed devices and how this will impact the daily operations of a broadcaster, news organization or production company.

Springtime Maintenance to Keep You on the Air   *SBE Members: Free, thanks to BSW   Non-Members: $39*

Presenter: John Bisset   *Length: 120 min*

Drawing from his experience as a chief engineer, and in writing Radio World's popular Workbench column, John Bisset will lead engineers through a series of inspections and tasks to prepare your site for warmer weather. Along the way, he will offer some engineering nuggets to improve your maintenance efficiency as well.

AM Directional Antenna Modeling   *SBE Members: $79   Non-Members: $99*

Presenter: Cris Alexander, CPBE, AMD, DRB   *Length: 160 min*

This webinar provides a detailed overview of the modeling process, including base impedance matrix and sample system calibration measurements, model construction / calibration and derivation of operating parameters from the calibrated model.

IPv6 for Broadcasters   *SBE Members: $49   Non-Members: $69*

Presenter: Wayne Pecena, CPBE, 8-VSB, AMD, DRB, CBNE   *Length: 80 min*

IPv6 background, the current state of the industry, IPv6 technology basics, and the technical details of implementation.

Creative Strategies for Translators and Boosters   *SBE Members: $49   Non-Members: $69*

Presenter: Doug Vernier, CPBE   *Length: 85 min*

How AM day stations can be programmed at night by using fill-in translator, translator location hopping move-ins to larger populations.

FCC Self-Inspection Checklist   *SBE Members: $39   Non-Members: $55*

Presenter: Dennis Baldridge, CPBE, 8-VSB, AMD, DRB, CBNT   *Length: 105 min*

This webinar covers the purpose, scope and limitations of the self inspection checklist - technical.

KREX - the Real World of Disaster Recovery   *SBE Members: FREE, thanks to Harris   Non-Members: $39*

Presenter: Skip Erickson   *Length: 75 min*

Find out what the CBS and Fox affiliate in Grand Junction, CO did when it burned to the ground and the Super Bowl was just two weeks away.

Leadership Development Series   *SBE Members: $45   Non-Members: $59*

1) The Function and Nature of Leadership; 2) Communication; 3) Motivation   *Length: 75 min each*

Presenter: Rodney Vandeveer, SBE Leadership Development Course Instructor

This series provides an introduction to leadership.

Managing a Project and Outside Contractors for Success   *SBE Members: $59   Non-Members: $79*

Presenter: John Luff, 2010 SBE Engineer of the Year   *Length: 90 min*

This webinar will help attendees learn the roles and responsibilities of those involved in planning and executing a capital project.

Mathematics of Reliability   *SBE Members: $39   Non-Members: $59*

Presenter: Fred Baumgartner, CPBE, CBNT   *Length: 60 min*

This tutorial covers how to apply the statistical analysis of system availability to the design, operation, and budgeting of a broadcast facility.

Networking Technology for Broadcast Engineers   *SBE Members: $98   Non-Members: $158*

Presenter: Wayne Pecena, CPBE, 8-VSB, AMD, DRB, CBNE   *Length: 120 min each*

Topics include TCP/IP and UDP fundamentals, IP addressing, sub-netting basics, an introduction to IPv6, switching fundamentals, VLAN use & more.

Streaming Radio: a Tutorial for Broadcasters   *SBE Members: $39   Non-Members: $59*

Presenter: Christopher Tarr, CSRE, DRB, CBNT   *Length: 60 min*

Whether you are considering streaming for the first time, or looking to upgrade your streaming product, Chris Tarr will take you through all the things you need to consider, from choosing a streaming provider, sending metadata, royalty payments, service for mobile devices and more.