

# **IP Fundamentals for Broadcast Engineering**

*July 31<sup>st</sup> – August 1<sup>st</sup>*

- Networking Standards and Working Models
- Introduction TCP/IP Protocols
- TCP and UDP Fundamentals
- IP Addressing (IPv4 focused – Ipv6 introduced)
- IP Subnetting Fundamentals
- Switching and Routing Fundaments – When do I switch and when do I route?
- Qos Basics (Broadcast oriented)
- Controlling Network Traffic and Security
- Practical Design exercise – Developing an IP Networking Plan

## **About Your Instructor - Wayne M. Pecena, CPBE, 8-VSB, AMD, DRB, CBNE**

Wayne Pecena is the Assistant Director of Educational Broadcast Services in the Office of Information Technology at Texas A&M University. In this position, he serves as the Director of Engineering of TTVN: The Enterprise Videoconference and Data Network serving the Texas A&M University System and Public Broadcast stations KAMU-TV and KAMU-FM serving the Brazos Valley area. He is responsible for leading technology implementation for the enterprise network of the Texas A&M University System, supporting over 150 IP data locations and over 350 videoconference sites within Texas and internationally. In addition, Wayne is responsible for broadcast technology implementation at KAMU. He has over 35 years of broadcast telecommunications experience and holds BS and MS degrees from Texas A&M University. He is a licensed Private Pilot and holds Amateur Radio Operator License N1WP.



This special two day seminar will be held at the ABA Engineering Academy at 2180 Parkway Lake Dr, Hoover AL. Classes will be held from 8:30 AM to 4:30 PM both days. On the second day we will offer attendees the opportunity to take the SBE Certified Broadcast Network Engineer (CBNE) exam.

The ABA has made special arrangements with the Homewood Suites for those needing accommodations.

Students wishing to take the Certified Broadcast Networking Engineer (CBNE) must have five (5) years of suitable experience in broadcast engineering or related technology.

The new SBE CertPreview can be downloaded from the SBE website or you may choose to have the CD mailed to you. The program will be installed onto your computer and will be machine specific. The program will be available for Windows and Mac.

Additional study materials will be available during the two day class.

The cost of the downloaded preview is \$29.00. Visit [www.sbe.org](http://www.sbe.org) for more details.

Exam Cost:

SBE Member \$75.00

Non-Member \$150.00 (includes first year membership)

Contact Larry Wilkins at [lwilkins@al-ba.com](mailto:lwilkins@al-ba.com) or 334-303-2525 for additional information.



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