



CERTIFICATION UPDATE

by Chriss Scherer, CPBE CBNT
cscherer@sbe.org

Scherer is a member of the SBE Certification Committee and the editor of Radio magazine, Overland Park, Kan.

Creating the perfect question

When you take an SBE certification exam, you are given 50 multiple-choice questions to assess your knowledge of the certification topic. In the case of the Certified Senior Television Engineer, Certified Senior Radio Engineer and Certified Broadcast Networking Engineer, you are also given an essay question. From an examinee's view, you only see a small portion of the question database that has been developed by the Certification Committee. We on the national committee are often asked how these questions are created.

The SBE Program of Certification maintains several question databases. There are two multiple-choices databases: One for the regular exams, and one that is created from this set to be used for CertPreview. The Committee vigorously protects the regular database to maintain its integrity and avoid it ever being compromised. That's why we create the second database for CertPreview. The CertPreview questions are based on regular questions so we can still provide a flavor of what the questions are like and

what information will be covered. When the Committee adds or subtracts questions from the regular database, sample questions are added or subtracted from the CertPreview database. The Committee also maintains a database of essay questions.

With all this material in use, the Certification Committee spends a great deal of time reviewing the questions to ensure they are still accurate and relevant. Part of the ongoing question review includes adding new questions to the databases. This is where the experience of the Certification Committee members is most valuable. As technology evolves, FCC Rules change and industry practices develop, we update the question databases to stay current.

The members of the Certification Committee often write new questions themselves. At times, the Committee has accepted question submissions from industry groups, including the ATSC and iBiquity. Regardless of the source, all submitted questions are reviewed for relevancy, appropriate incorrect answers (called detractors) are created, and are then

categorized to be used on the appropriate exam.

As you can see, maintaining these databases is an involved process. Creating new questions can be tedious for the volunteer committee, which is why at the Committee's April meeting at the 2012 NAB Show it was suggested we tap a built-in resource: You, the SBE member. The SBE has a natural knowledge base in its membership, and we want to use this resource.

The last time you took an SBE certification exam, perhaps you felt a topic was not covered. Submit a question about that. As you perform your daily work, I'm sure you encounter situations you know are unique to media and broadcast engineering. Submit a question about that situation.

Questions can be multiple choice or essay suggestions. Your submission should include the right answer and, in the case of a multiple-choice question, several detractors (incorrect answers). The Certification Committee will review all submissions and add them to the database if appropriate.

Send your submissions to Certification Director Megan Clappe (mclappe@sbe.org) at the national office. They will be reviewed by the Certification Committee.

The Society of Broadcast Engineers is a volunteer organization, and it is through the efforts of its members it continues to succeed. We look forward to receiving your ideas for the SBE Program of Certification.

Society secures Sullivan, Harling as planning facilitators

A strategic planning conference to plot the future course of the SBE is scheduled for June 23. The SBE is enlisting the team of A. Charlene Sullivan, Ph.D. and Kenneth Harling, Ph.D., to facilitate and lead the group through the day-long strategic planning process.



Dr. Sullivan is an Associate Professor of Management at the School of Management and the Krannert Graduate School of Management at Purdue University and has been a faculty member at Purdue since 1978. Since 2000, Dr. Sullivan has served as the Management Faculty Advisor for the Technical Assistance Program at Purdue, which offers no-cost consulting for Indiana businesses. She has facilitated strategic planning sessions for numerous Indiana businesses and organizations as part of the TAPS project including: Fairfield Manufacturing, Hoffco, Inc., Sperry and Rice, Defense Finance and Accounting, Passageways, Precision Metal Forming Association, Alpha Engineering, Packaging Logic Inc., AFI Manufacturing,

American Container, Healthcare Tap Purdue, Noble County Economic Development, West Lafayette Indiana Companies to Watch.

Her teaching career includes undergraduate and graduate courses on corporate financial management, financial institutions and markets and financial and managerial accounting. In addition, Dr. Sullivan has served as a risk management consultant for Edgar Dunn & Company since 1994 and a financial analyst for the Indiana Gaming Commission since 1995. Dr. Sullivan has served on the board of directors of several financial institutions and not-for-profit organizations and currently serves on the board of directors of the Lafayette Community Foundation and on the Purdue Employees Federal Credit Union. Dr. Sullivan earned a B.S. degree in Home Economics from the University of Kentucky and a master's and doctorate in Management from Purdue University.

Dr. Harling is a Professor of Strategic Management at Wilfrid Laurier University. He has taught strategy there and at other universities: The German International School for Management and administration, the Pennsylvania State University, Purdue University, the University of Guelph, and the University of

Waterloo. In addition he has taught in executive programs in Canada, China, and Nigeria.

"Anyone can come up with a strategy but making it work is where the fun begins!" said Harling.

Harling's passion is strategy execution. His education includes a bachelor's degree from the University of Guelph and a master's and doctorate from Purdue University.

As the facilitators for the SBE strategic planning conference, Dr. Sullivan and Dr. Harling will assist all attendees to recognize and articulate the society's needs and build a consensus on the most efficient and effective way to plot the course of the SBE.



Certification Question
answer on page 10

50V at 60Hz flows 0.1A through the coil of a relay having 10 ohms of resistance. What is the approximate impedance of the coil?

- A. 5 ohms
- B. 20 ohms
- C. 200 ohms
- D. 500 ohms
- E. 510 ohms

New SBE Certification Achievements

CONGRATULATIONS

LIFE CERTIFICATION

Current CPBE and Certified Senior Broadcast Engineer members who have maintained the SBE certification continuously for 20 years may be granted Life Certification if so requested. All certified who have retired from regular full-time employment may be granted Life Certification if they so request. If approved, the person will continue in his/her current level of certification for life.

- Certified Professional Broadcast Engineer® (CPBE®)**
Hal Hostetler, Tucson, Ariz. – Chapter 32
George Maier, Sudbury, Mass. – Chapter 11
- Certified Senior Television Engineer™ (CSTE®)**
Glenn Gunnufsen, Hardy, Va. – Chapter 78
- Certified Broadcast Television Engineer™ (CBTE®)**
Paul Waegle, Roseville, Calif. – Chapter 43
- Certified Broadcast Networking Technologist® (CBNT®)**
Glenn Gunnufsen, Hardy, Va. – Chapter 78
Thomas McGinley, Seattle, Wash. – Chapter 16

NEWLY CERTIFIED CPBE

Applicant must have had 20 years of professional broadcast engineering or related technologies experience in radio and/or television. The candidate must be currently certified on the Certified Senior Broadcast Engineer level.

- Certified Professional Broadcast Engineer (CPBE)**
Charles Bullett, III, Emeryville, Calif. – Chapter 40

FEBRUARY EXAMS

- Certified Senior Television Engineer (CSTE)**
Arthur Lee Clardy, III, Lafayette, La. – Chapter 72
Timothy Kelly, Alexandria, Va. – Chapter 37
- Certified Senior Radio Engineer™ (CSRE®)**
Arthur Lee Clardy, III, Lafayette, La. – Chapter 72
- 8-VSB Specialist™ (8-VSB™)**
John Mackey, Beaverton, Ore. – Chapter 124

SPECIAL PROCTORED EXAMS

- Certified Broadcast Technologist (CBT)**
Eric Tepe, Smyrna, Ga. – Chapter 5
- Certified Broadcast Networking Technologist (CBNT)**
Jared Baehmer, Graham, Wash. – Chapter 16

COURSE COMPLETION

- Certified Broadcast Technologist (CBT)**
Eric Kuglin, Chandler, Ariz. – Chapter 9
William Medlock, Raleigh, N.C. – Chapter 93
- CLEVELAND INSTITUTE OF ELECTRONICS**
Michael Bulatao, St. Helena, Calif. – Chapter 40
Michael West, Napa, Calif. – Chapter 40
- NAPA VALLEY COLLEGE**

CERTIFIED BY LICENSE

- Certified Broadcast Technologist (CBT)**
Edwin Acevedo, Jacksonville, Fla. – Chapter 7
Clifford Button, Girard, Ohio – Chapter 122
- Steve Fluker, Orlando, Fla. – Chapter 42
Astley Grant, Newmarket, Ontario, Canada
William MacDonald, Mesa, Ariz. – Chapter 9
- Jimmie Rushing, Jonesboro, Ark.
Brian Voss, San Antonio, Texas – Chapter 69

RECERTIFICATION

The following completed the recertification process by re-examination, point verification through local chapters and national Certification Committee approval and/or met the service requirement.

- Certified Professional Broadcast Engineer (CPBE)**
Stephen Davis, Coweta, Okla. – Chapter 56
- Certified Broadcast Television Engineer (CBTE)**
Richard Dyer, Virginia Beach, Va. – Chapter 54
George Randell, Nashville, Tenn. – Chapter 103
Robert Russo, Guilford, Conn. – Chapter 14
Greg Wynter, Toronto, Ontario Canada
- Certified Broadcast Networking Technologist (CBNT)**
Randy Garrett, Atlanta, Ga. – Chapter 5
Charles Grantham, Andalusia, Ala. – Chapter 118
Charles Grider, Montgomery, Ala. – Chapter 118
Brian James, Birmingham, Ala. – Chapter 68
Arthur Reis, New Lenox, Ill. – Chapter 26
- Certified Television Operator® (CTO)**
Frederick Fazekas, Holbrook, N.Y.
James Long, Potomac, Md. – Chapter 37
- Certified Radio Operator® (CRO)**
Richard Drotleff, Stow, Ohio
- Certified Broadcast Radio Engineer™ (CBRE)**
David Halperin, El Paso, Texas – Chapter 38
Robert Jorgenson, Pullman, Wash. – Chapter 16
Stuart Muck, Fond du Lac, Wis. – Chapter 80
Evan Stanek, Appleton, Wis. – Chapter 80
Friend Weller, Logan, Utah – Chapter 62
- Certified Broadcast Technologist® (CBT)**
Stephen Ambrose, York, Pa. – Chapter 41
Timothy Cason, Newnan, Ga. – Chapter 5
Robert Dunn, River Ridge, La. – Chapter 72

CERTIFIED RADIO OPERATOR

- David Meyer, Two Rivers, Wis.
- ITHACA COLLEGE**
Matthew Dezii, Ithaca, N.Y.

CERTIFIED TELEVISION OPERATOR

- Ryan Ahrenholz, Austin, Minn.
Kermitt Brown, Marietta, Ga.
Don Gilbertson, Austin, Minn.
Lance Houser, Rochester, Minn.
Tim Lange, Austin, Minn.
Carl Rayman, Austin, Minn.
Will Ruple, Boulder, Colo.
- Elizabeth Silva, Phoenix, Ariz.
Stephen Winn, Houston, Texas
- NORMANDY HIGH SCHOOL**
Neil Golias, Parma, Ohio
William Kelley, Parma, Ohio
James Lessick, Parma, Ohio
- Miguel Manalo, Parma Heights, Ohio
Angelica Pastrana, Parma, Ohio
Daniel Vranic, Parma, Ohio
Matthew Westfall, Parma Heights, Ohio
David Winfield, Parma, Ohio