

WHOLE HOUSE AUDIO DISTRIBUTION Workshop

Whole house audio systems are one of the most desired systems incorporated into new homes and remodeling of existing homes. Today's home audio systems are much more complicated than a simple stereo system. This intensive and interactive workshop teaches what students need to know to successfully install complex audio systems and maximize their performance for the listeners' enjoyment.

LEARN HOW TO:

- Design and layout a Whole House Audio System
- Select audio system components
- Understand different speaker types and make recommendations
- Ensure optimal amplifier performance
- Evaluate volume control and keypad options
- Install and hook-up a Whole House Audio System

WORKSHOP FEATURES AND MATERIALS

This workshop is designed by industry veterans with extensive experience. The eight-hour interactive training is led by an experienced and qualified Bedrock Learning trainer and subject matter expert. Product samples will be shared along with an audio calibration demonstration. The workshop curriculum helps prepare for DHTI+ certification by CompTIA. Reinforce your learning with the online course opportunity. Each student receives workshop materials including:

- Comprehensive workbook in full-color, plus numerous handouts
- CD with Whole House Audio documentation forms and resources
- Certificate of Completion
- Substantial savings on **Whole House Audio Technology and Distribution** *online course* for the follow-up review and testing

WHO SHOULD ATTEND

This workshop is designed for Installers and Integrators working in the home, interested in whole house audio distribution, and who want to add this skill set to their background. Those individuals working towards CompTIA DHTI+ or CEDIA certifications will gain knowledge in preparation for testing.

PREREQUISITES AND COST

- Understanding of structured wiring and installation is recommended
 - This knowledge can be gained by taking the *online course Fundamentals of Structured Wiring*, discount available when registering for this workshop
- Cost, including all materials and lunch, is \$399 per person
- Each additional student from the same company is \$299

DATES, LOCATION AND REGISTRATION

- For a complete schedule of workshops, visit www.bedrocklearning.com
- Register by phone at 616.355.1418

Form more information contact:

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Workshop Outline

1. Whole House Audio Overview

- Whole House Audio Definitions
- Multi-Room Audio Definitions
- Multi-Source Audio Definitions
- Multi-Zone Audio Definitions
- Audio System Components

2. Whole House Audio Benefits

- Benefits of Whole House Audio
- Features of a Basic System
- Features of an Advanced System
- Features of a Performance System

3. The Basics of Sound

- Creation of Sound
- Measurement of Sound
- Decibels and Watts
- Mono, Stereo and Surround
- Room Acoustics

4. Whole House Audio Components and Speakers

- Source Electronics
- Distribution electronics
- Types of Speakers
- Speakers vs. Applications
- Methods of Source Control

5. Amplifier Fundamentals

- Power vs. Impedance
- Impedance, dB, Total Harmonic Distortion
- Speaker Efficiency Calculations

6. Safety, Tools, and Standards

- Basic Jobsite Safety
- Jobsite Hazards to Avoid
- Regulations and Standards
- Tools Used for Installation

7. Audio System Wiring

- Wiring Basics
- Wire Types
- Line Level Control
- Speaker Level Control
- Impedance Calculations

8. Volume and Keypad Controls

- Volume Control Basics
- Keypad Volume Controls
- Autoformer Volume Controls
- Volume Controls & Impedance

9. Designing a Home Audio System

- 12 Steps of Audio Design
- Speaker Selection Process
- Centralized Component Design
- Decentralized Design

10. Installing a Home Audio System

- Phases for New Construction
- Phases for Retrofit Construction
- Steps for Installation

11. Troubleshooting an Audio System

- Common System Problems
- Troubleshooting Methodology
- Using Troubleshooting Tools