

Multi-Room Audio Technology

Explains principles of sound, components, equipment, speakers, and more

BEDROCK Learning Online Course

6 hours

\$149 US



DESCRIPTION

Grasp the fundamentals and key principles of audio and multi-room audio distribution. This course covers sound technology, impedance, source components, distribution equipment, speakers and control options. Discover how to choose the appropriate speakers, calculate power needs and select components for multi-room audio.

OBJECTIVES

- Identify the four phases involved in installing a whole house audio system in a new construction project
- List the three phases involved in installing a whole house audio system in a retrofit project
- Identify the four steps to follow when planning the installation of the whole house audio system
- Explain the specific steps involved in the pre-wire, trim-out, and final installation phases of installation

EARN CEUs



CEDIA™



Tennessee 6 hrs

6 Credit Hours
16-4760

3 CEUs
#518

6 Contact Hours

1. **Course Information**
2. **Introducing Whole House Audio**
 - Multi-Room Audio Head End
 - Multi-Source
 - Multi-Zone
 - Components
3. **Benefits of Whole House Audio**
 - Living with Whole House Audio
 - “Basic” Audio System Features
 - “Advanced” Audio System Features
 - “Performance” Audio System Features
4. **Safety, Tools and Standards**
 - Safety Considerations
 - Planning, Rough-in and Trim-out Tools
 - Testing Tools
5. **The Basics of Sound**
 - Watts, Decibels and Loudness
 - Amplification and Speakers
 - Monaural, Stereo and Surround Sound
 - Room Acoustics
6. **Audio Components and Speakers**
 - Source Electronics
 - Distribution and Control Electronics
 - Speaker Types
 - Keypad and Volume Controls
7. **Amplifier Performance**
 - Speaker Impedance
 - Amplifier Specifications
 - Selecting Amplifiers and Speakers
 - Calculations
8. **Audio System Wiring**
 - Wire Types and Uses
 - Wire, Impedance and Performance
 - Series and Parallel Wiring
 - Amplifier Selection
9. **Volume and Keypad Controls**
 - Locations
 - Autoformer Volume Controls
 - Impedance Matching Volume Controls
 - Keypad Control
10. **Designing Whole House Audio**
 - Steps in the Design Process
 - Types and Locations of Speakers
 - Component Selection
 - Design Documentation
 - Whole House Audio System Examples
11. **Installing Whole House Audio**
 - New Construction and Retrofit
 - Planning, Rough-in. and Trim-out Phases
 - Training the Customer
12. **Troubleshooting Audio**
 - Methodology
 - Common Problems
 - Ground Loop
 - Top 10 Distributed Audio Problems
 - Troubleshooting Tools
13. **Course Summary**
14. **FINAL TEST**

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