

HOME THEATER Workshop

Today's home theater system brings the excitement of a movie theater experience into the comfort of the home. This intensive workshop covers the information needed to design and install a variety of home theater systems, from a small home theater in the family room to a large dedicated theater room. Gain a thorough understanding of all the elements necessary to design, install, and maximize the viewer's experience.

LEARN HOW TO:

- Design and wire a Home Theater
- Select Home Theater sources and audio/video processing components
- Understand different video display types and make recommendations
- Share and select Home Theater control options
- Install and hook-up a Home Theater System
- Calibrate a Home Theater System
- Troubleshoot audio and video performance

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. 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 Home Theater documentation forms and resources
- Certificate of Completion
- Substantial savings for the follow-up online review and testing of the Bedrock Learning **Home Theater Design and Installation** *online course*

WHO SHOULD ATTEND

This workshop is designed for Installers and Integrators working in the home, interested in understanding home theater systems, and wanting 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 616.335.6206

For more information:

BEDROCK
learning.com

email workshops@bedrocklearning.com
phone 616.335.6206



Workshop Outline

1. Introducing Home Theater

- The Connected Home
- Benefits of Home Theater
- Design and Aesthetics
- Equipment and Layout
- Types of Home Theater Systems

2. Home Theater Sources

- Types of Audio/Video Sources
- Standard vs. HD Broadcast
- Digital Audio/Video Sources
- Audio Only Sources

3. Home Theater – Audio/Video Processing

- Signal Routing
- Types of Audio Signals
- Audio Formats
- Audio Amplifiers
- Video Processing
- Types of Video Signals

4. Home Theater – Video Displays

- Display Categories
- Direct View Displays
- Types of Projection Displays
- Front Projection
- Rear Projection

5. Home Theater – Audio

- Importance of Audio
- Speaker Types
- Speaker Components
- Surround Sound Configurations
- Equalization
- Relationships Between Speakers, Amplifiers, and Power

6. Home Theater – Control and Environment

- Types of Remote Controls
- Importance of Good Acoustics
- Fundamentals of Power Control
- Fundamentals of Power Conditioning
- Environmental Issues

7. Safety and Tools

- Jobsite Safety Rules
- Safety Hazards to Avoid
- Planning Tools
- Installation Tools
- Testing Tools

8. Designing a Home Theater System

- 13 Steps in the Design Process
- Importance of Good Design

9. Installing a Home Theater System

- Phases of Installation
- Details of Installation
- Calibration

10. Troubleshooting a Home Theater System

- Common System Problems
- Troubleshooting Methodology
- Using Troubleshooting Tools