

CEDIA Education:

Course descriptions, continuing education credit information, course numbers, subject codes, and designations.

Unless otherwise indicated, each course is 60 minutes.

**Courses marked as "Pending" or "Not Approved" do not count toward continuing education for members of those associations where noted.**

**Instructor-led Education Available at Your Location**

1. Home Integration for Convenience, Comfort, and Safety

This newly-revised course highlights the benefits of home automation and systems integration. Elements such as security, lighting, temperature control, communications, and entertainment are included in this course, along with discussion of commonly-held misconceptions related to home automation and systems integration. Attendees will take away such vital information as identifying talking points to use with clients and how to locate an electronic systems contractor (ESC) technology partner, while learning effective ways to incorporate technology into their design and build projects.

Association:	AIA Information	AIBD Information	*IDCEC Information	NAHB Information	NARI Information
Credit:	1.0 LU	1.0 CEU	0.1 CEU	1.0 Cr Hr	0.1 CEU
Course Number:	CIO001	N/A	5688	N/A	N/A
Subject Code:	N/A	N/A	5.5	N/A	N/A
Designation(s):	Health, Safety, & Welfare and Sustainable Design	N/A	Health & Safety	Multiple	All

2. Building Quiet Environments

In today's hectic and fast-paced world, homeowners need and want a space that is peaceful and tranquil—a quiet environment where they can relax and enjoy their home without noisy interruptions. This course outlines the fundamentals of sound control and gives examples of noise pollution affecting today's society. Participants will discuss key principles related to sound isolation and the "why, what, and how" components associated with controlling sound. Construction materials and mechanical, electrical, and plumbing considerations will also be discussed, while the participant is guided through the step-by-step process of building a specialty room. Attendees will learn how to locate an electronic systems contractor (ESC) and what questions to ask when partnering with an ESC.

Association:	AIA Information	AIBD Information	*IDCEC Information	NAHB Information	NARI Information
Credit:	1.0 LU	1.0 CEU	0.1 CEU	1.0 Cr Hr	0.1 CEU
Course Number:	CIO003	N/A	5622	N/A	N/A
Subject Code:	N/A	N/A	5.1	N/A	N/A
Designation(s):	Health, Safety, & Welfare and Sustainable Design	N/A	Health & Safety	Multiple	All

3. Home Theater Design and Construction

What is a home theater? This may sound like a simple question, but is it? Participants in this course will come away with a very distinct definition of what a home theater is—and what it isn't! Discussions will also include basic acoustical physics, common mistakes in design and construction, "points to remember" to achieve a solid, repeatable process, and spatial and usage considerations. This course will provide guidance related to what goes in the room—from equipment, to wall treatments, to lights—and how to analyze common problems associated with home theater design and construction. Additionally, attendees will learn how, when, and why to engage a trained electronic systems contractor (ESC) early in the design and build process.

Association:	AIA Information	AIBD Information	*IDCEC Information	NAHB Information	NARI Information
Credit:	1.0 LU	1.0 CEU	0.1 CEU	1.0 Cr Hr	0.1 CEU
Course Number:	CIO004	N/A	5686	N/A	N/A
Subject Code:	N/A	N/A	5.5	N/A	N/A
Designation(s):	Health, Safety, & Welfare and Sustainable Design	N/A	General Knowledge	Multiple	All

4. Home Audio Made Easy: Residential Speaker Solutions

There are many residential speaker solutions available for your client; how do you know which one is best? This course will help participants sort through speaker choices and placement considerations so that they will be better prepared to assist clients with finding the best options! Attendees will learn how speakers produce sound, what factors most influence sound quality, how to position speakers for optimum performance, and the best methods for integrating speakers into décor. This course will help attendees identify the proper electronics professional for the job and how to engage that professional early in the process.

Association:	AIA Information	AIBD Information	*IDCEC Information	NAHB Information	NARI Information
Credit:	1.0 LU	1.0 CEU	0.1 CEU	1.0 Cr Hr	0.1 CEU
Course Number:	CIO005	N/A	5627	N/A	N/A
Subject Code:	N/A	N/A	5.5	N/A	N/A
Designation(s):	Health, Safety, & Welfare and Sustainable Design	N/A	General Knowledge	Multiple	All

5. Understanding the Need for Home Technology

Participants will walk away from this course with a comprehensive overview of current home technologies available in today's connected homes. The in-depth discussion will focus on wired vs. wireless, integrated systems—what they are and how they work—and engaging a trained, certified professional electronic systems contractor (ESC). This overview will also help attendees plan for proper wiring infrastructure and other profitable electronic systems that today's savvy clients are looking for, dispel common misperceptions regarding home technology, and assist them in navigating the technologies market by providing a list of "do's and don'ts".

Association:	AIA Information	AIBD Information	*IDCEC Information	NAHB Information	NARI Information
Credit:	1.0 LU	1.0 CEU	0.1 CEU	1.0 Cr Hr	0.1 CEU
Course Number:	CIO006	N/A	5665	N/A	N/A
Subject Code:	N/A	N/A	5.5	N/A	N/A
Designation(s):	Health, Safety, & Welfare and Sustainable Design	N/A	Health & Safety	Multiple	All

6. Lighting Control

Lighting control has become a standard in new home construction...people who have it love it and wonder how they ever lived without it! Participants will walk away from this course with a basic understanding of lighting control terminology and the benefits and solutions related to lighting control—presented in simple, easy to understand language. Additionally, attendees will be active participants in discussion surrounding common misconceptions and lighting control design considerations. This course will conclude with an informative checklist of questions to consider when interviewing and hiring an electronic systems contractor (ESC) for electronic systems integration in the home.

Association:	AIA Information	AIBD Information	*IDCEC Information	NAHB Information	NARI Information
Credit:	1.0 LU	1.0 CEU	0.1 CEU	1.0 Cr Hr	0.1 CEU
Course Number:	CIO007	N/A	5681	N/A	N/A
Subject Code:	N/A	N/A	5.1	N/A	N/A
Designation(s):	Health, Safety, & Welfare and Sustainable Design	N/A	Health & Safety	Multiple	All

7. Planning for Residential Electronic Systems

As with other rough-in trades (mechanical, electrical, and plumbing), electronic systems should be planned for well in advance of construction and documented at the construction drawing phase of design. Participants in this course will discuss the roles, responsibilities, and functions of an electronic systems contractor (ESC), be able to identify different types of residential systems, and analyze the benefits of working with an ESC. Attendees will examine specific design considerations, such as space, framing, electrical, and ventilation requirements. This course will help attendees identify the proper ESC for the job by providing them a checklist of questions to ask and items to consider when engaging a home electronics partner early in their next design and build project.

Association:	AIA Information	AIBD Information	*IDCEC Information	NAHB Information	NARI Information
Credit:	1.0 LU	1.0 CEU	0.1 CEU	1.0 Cr Hr	0.1 CEU
Course Number:	CIO008	N/A	5692	N/A	N/A
Subject Code:	N/A	N/A	2.1	N/A	N/A
Designation(s):	Health, Safety, & Welfare and Sustainable Design	N/A	Welfare	Multiple	All

8. Managing Electronic Systems Contractors (ESCs)

What is an electronic systems contractor (ESC) and how do you fit him/ her into your design and build project? These questions (and more!) will be answered during this course! Discover what an ESC will bring to your next project, from “insider” tips to successfully negotiating a contract with this vital subcontractor, to questions to ask during the interview process when locating your trained, professional electronics partner. Participants can expect insightful discussion regarding locating, hiring, and collaborating with the ESC best suited to your project.

Association:	AIA Information	AIBD Information	*IDCEC Information	NAHB Information	NARI Information
Credit:	1.0 LU	1.0 CEU	0.1 CEU	1.0 Cr Hr	0.1 CEU
Course Number:	CIO009	N/A	5682	N/A	N/A
Subject Code:	N/A	N/A	8.2	N/A	N/A
Designation(s):	N/A	N/A	General Knowledge	Multiple	All

9. Home Technology Within the Design and Build Process

What is an electronic systems contractor (ESC)? How does an ESC impact other crucial subcontractors and their work? The answers to these questions and more will be discussed as you learn how electronic systems can be seamlessly integrated into a home’s design and build process with the help of a trained, electronics professional. Some of the areas addressed include framing, HVAC, millwork, paint, lighting, window treatments, and security, just to name a few! This course uses multiple visual examples to showcase the quality work that an ESC brings to each and every project.

Association:	AIA Information	AIBD Information	*IDCEC Information	NAHB Information	NARI Information
Credit:	1.0 LU	1.0 CEU	0.1 CEU	1.0 Cr Hr	0.1 CEU
Course Number:	CIO010	N/A	5689	N/A	N/A
Subject Code:	N/A	N/A	8.2	N/A	N/A
Designation(s):	Health, Safety, & Welfare and Sustainable Design	N/A	General Knowledge	Multiple	All

10. Hiding Technology

Home electronics should integrate seamlessly into a home’s design and décor. This course reviews the three-pronged approach to hiding technology—advance planning, design philosophy, and product selection—which are available for minimizing the visual impact of electronics without compromising performance. Specific challenges and recommendations related to hiding video displays, projectors, speakers, controls, cameras, and equipment racks—among others—will be addressed. This course speaks to innovative and creative ways to lessen the visual impact of electronics by making them low-profile, hidden or camouflaged, or even invisible! Attendees will also walk away with an understanding of how to properly engage a trained electronic systems contractor (ESC) in their next project.

Association:	AIA Information	AIBD Information	*IDCEC Information	NAHB Information	NARI Information
Credit:	1.0 LU	1.0 CEU	0.1 CEU	1.0 Cr Hr	0.1 CEU
Course Number:	CIO011	N/A	5687	N/A	N/A
Subject Code:	N/A	N/A	2.1	N/A	N/A
Designation(s):	Health, Safety, & Welfare and Sustainable Design	N/A	Health & Safety	Multiple	All

11. Control Systems Impact on Building Green

A “green home” is more than energy efficiency; one must look at the big picture. Participants in this course will discuss their understanding of what it means to “go green”. Discussion will include efficient use of resources, including electricity and water, and how electronic devices can work with these resources to contribute to reducing a home’s carbon footprint. Additionally, attendees will discuss how a green home can be a comfortable and healthy environment for its occupants and identify methods such as engaging a trained electronic systems professional, choosing the right building materials, and providing proper air quality and ventilation in order to achieve clients’ “green goals”.

Association:	AIA Information	AIBD Information	*IDCEC Information	NAHB Information	NARI Information
Credit:	1.0 LU	1.0 CEU	0.1 CEU	1.0 Cr Hr	0.1 CEU
Course Number:	CIO012	N/A	40013	N/A	N/A
Subject Code:	N/A	N/A	5.6	N/A	N/A
Designation(s):	Health, Safety, & Welfare and Sustainable Design	N/A	Health & Safety	Multiple	All

12. Video Displays: The Value of Proper Installation for Comfort and Safety

Video displays are found in virtually every area of the home today and properly installed video displays bring added entertainment, enjoyment, comfort, and safety to the home's occupants and guests. Attendees of this course will walk away with basic knowledge regarding proper display height, distance guidelines, and detailed information regarding different display types. Participants will be able to speak with clients regarding strategies for hiding displays so that technology can be integrated into the home's décor without compromising the integrity of the design space, and will recognize the essential criteria for engaging a trained electronic systems professional to achieve these goals. Additionally, participants will be able to define specific terminology and speak intelligently regarding the value of properly calibrated and installed displays throughout the home.

Association:	AIA Information	AIBD Information	*IDCEC Information	NAHB Information	NARI Information
Credit:	1.0 LU	1.0 CEU	0.1 CEU	1.0 Cr Hr	0.1 CEU
Course Number:	CIO013	N/A	5971	N/A	N/A
Subject Code:	N/A	N/A	5.2	N/A	N/A
Designation(s):	Health, Safety, & Welfare and Sustainable Design	N/A	Welfare	Multiple	All

13. Introduction to Electronic Home Entertainment (This is a 90-minute course)

This education course highlights the current trends in digital entertainment, the different types of entertainment available, such as such as personal video recording, movies, digital audio, and gaming, and explores whole-house application options. Additionally, infrastructure choices for distributed home entertainment will be discussed, along with available software applications, such as wired vs. wireless systems, network options, and user control options available to clients. Attendees will also participate in discussion related to identifying the most qualified electronic systems professionals and how and when to engage these individuals in the design and build process.

Association:	AIA Information	AIBD Information	*IDCEC Information	NAHB Information	NARI Information
Credit:	1.5 LUs	1.5 CEUs	0.1 CEU <sup>1</sup>	1.5 Cr Hr	0.15 CEU
Course Number:	CIO020	N/A	5945	N/A	N/A
Subject Code:	N/A	N/A	5.2	N/A	N/A
Designation(s):	Health, Safety, & Welfare and Sustainable Design	N/A	General Knowledge	Multiple	All

<sup>1</sup> IDCEC awards CEUs based on full-hour increments only. Courses over 60 minutes are rounded down to the lowest full-hour; therefore, interior designer participants of this 90-minute course will only receive 0.1 CEU for attendance.

14. Introduction to User Interfaces

What is a user interface and what type will fit your clients' needs the best? Participants will find answers to these questions and more while participating in this introductory course. Attendees will discuss remotes, keypads, and touchscreens and the pros and cons of each, as well as what characteristics make user interfaces effective and easy to use. Additionally, such topics as subsystem control, home automation, and systems integration will be touched on. The all-important client interview will be discussed and participants will be schooled on recognizing the essential criteria for engaging a trained electronic systems professional.

Association:	AIA Information	AIBD Information	*IDCEC Information	NAHB Information	NARI Information
Credit:	1.0 LU	1.0 CEU	0.1 CEU	1.0 Cr Hr	0.1 CEU
Course Number:	CIO021	N/A	5995	N/A	N/A
Subject Code:	N/A	N/A	5.2	N/A	N/A
Designation(s):	Health, Safety, & Welfare and Sustainable Design	N/A	Health & Safety	Multiple	All

15. Electronic Systems Infrastructure Requirements\*

\*This course replaces "Structured Wiring for the Integrated Home", which is no longer available.

Supporting the multitude of technologies found in today's connected homes requires planning, specialized installation, and a solid infrastructure in place. Attendees will discuss the trends and future technologies and their impact on today's homes, as well as be able to understand the basic infrastructure requirements needed to support these technologies so that they perform at maximum capacity. Participants will be able to define the components of a structured wiring system and list the benefits that correctly installed systems offer to their clients' technology needs. Attendees will also engage in discussion related to partnering with a trained electronics professional in the planning and installation of these complex systems.

Association:	AIA Information	AIBD Information	*IDCEC Information	NAHB Information	NARI Information
Credit:	1.0 LU	1.0 CEU	0.1 CEU	1.0 Cr Hr	0.1 CEU
Course Number:	CIO016	N/A	40014	N/A	N/A
Subject Code:	N/A	N/A	5.5	N/A	N/A
Designation(s):	Health, Safety, & Welfare and Sustainable Design	N/A	Health & Safety	Multiple	All

16. Integrating Audio Into Homes for Performance and Aesthetics

Whole house audio is a trend that has been increasing in popularity during recent years. Participants of this course will discuss how whole house audio systems can and are used, and the benefits these systems provide to the homeowner—including the advantages of integrating them with other electronic systems in the home. Additionally, attendees will walk away with an in-depth knowledge of what technologies are utilized and the components required for proper installation and performance of these complex systems without compromising the home's aesthetic beauty and design. Participants will learn about how to engage an electronic systems professional and the benefits of including this trade early in the design and build process.

Association:	AIA Information	AIBD Information	*IDCEC Information	NAHB Information	NARI Information
Credit:	1.0 LU	1.0 CEU	0.1 CEU	1.0 Cr Hr	0.1 CEU
Course Number:	CIO017	N/A	5996	N/A	N/A
Subject Code:	N/A	N/A	5.1	N/A	N/A
Designation(s):	Health, Safety, & Welfare	N/A	General Knowledge	Multiple	All

17. Media and Game Room Design

The demand for home entertainment spaces is growing at a rapid pace—don't be uninformed and left behind! Participants in this course will be educated on the differences between media rooms and game rooms from a usage standpoint as well as specific design characteristics relative to equipment, furnishings, power requirements, ventilation, lighting, and acoustics. Attendees will also walk away with the knowledge of how and when to engage an electronics systems professional in the design and build process.

Association:	AIA Information	AIBD Information	*IDCEC Information	NAHB Information	NARI Information
Credit:	1.0 LU	1.0 CEU	0.1 CEU	1.0 Cr Hr	0.1 CEU
Course Number:	CIO015	N/A	40008	N/A	N/A
Subject Code:	N/A	N/A	4.9	N/A	N/A
Designation(s):	Health, Safety, & Welfare	N/A	Health, Safety, & Welfare	Multiple	All

## Online Education Available at Your Convenience

1. Introduction to Sub-System Design (This is a three-hour course)

This three-hour session is designed to introduce basic components and configurations of electronic sub-systems, and discuss such topics as lighting control, security, heating, ventilation and air conditioning (HVAC), and audio and video distribution. Also included is information about integrating and interfacing with sub-systems and issues regarding safety and codes for each.

Association:	AIA Information	AIBD Information	*IDCEC Information	NAHB Information	NARI Information
Credit:	Not approved	Not approved	Not approved	3.0 Cr Hr	0.3 CEU
Course Number:	Not approved	Not approved	Not approved	N/A	N/A
Subject Code:	Not approved	Not approved	Not approved	N/A	N/A
Designation(s):	Not approved	Not approved	Not approved	Multiple	Multiple

2. Introduction to Sub-System Control (This is a three-hour course)

Participants of this class will be provided with a working knowledge of sub-system control methods to include communication protocols and electronic interface. Attendees will learn how components control and communicate with each other and explore the capabilities and limitations of these different methods. This course also includes a discussion regarding the system designer's role and engineering documentation.

Association:	AIA Information	AIBD Information	*IDCEC Information	NAHB Information	NARI Information
Credit:	Not approved	Not approved	Not approved	3.0 Cr Hr	0.3 CEU
Course Number:	Not approved	Not approved	Not approved	N/A	N/A
Subject Code:	Not approved	Not approved	Not approved	N/A	N/A
Designation(s):	Not approved	Not approved	Not approved	Multiple	Multiple

3. Fundamentals of Home Theater Design (This is a three-hour course)

This three-hour course highlights the basic terms, elements, and requirements of home theater design and examines the differences between custom-designed home theaters and retail installations. It also traces the exciting progression from mono to 7.1 and its impact on the home electronics industry.

Association:	AIA Information	AIBD Information	*IDCEC Information	NAHB Information	NARI Information
Credit:	Not approved	Not approved	Not approved	3.0 Cr Hr	0.3 CEU
Course Number:	Not approved	Not approved	Not approved	N/A	N/A
Subject Code:	Not approved	Not approved	Not approved	N/A	N/A
Designation(s):	Not approved	Not approved	Not approved	Multiple	Multiple

4. Introduction to Digital Media Servers (This is a three-hour course)

Digital media fundamentals such as hardware, software and technology of media servers, common recording formats, and legal issues for digital rights management are the basic topics of this course. Additionally, information and examples of how to select and install a media server that meets clients' needs and budgets will be addressed.

Association:	AIA Information	AIBD Information	*IDCEC Information	NAHB Information	NARI Information
Credit:	Not approved	Not approved	Not approved	3.0 Cr Hr	0.3 CEU
Course Number:	Not approved	Not approved	Not approved	N/A	N/A
Subject Code:	Not approved	Not approved	Not approved	N/A	N/A
Designation(s):	Not approved	Not approved	Not approved	Multiple	Multiple

5. The Designer, the Client, and the Process (This is a three-hour course)

The role of the system designer as a marketing expert, salesperson, anthropologist, communicator, engineer, and project manager will be discussed and defined in this three-hour course. Also demonstrated will be the ways in which systems designers promote their expertise as a professional benefit. A five-step process leading to an accurate scope definition, needed to ascertain a client's lifestyle, will be addressed as well.

Association:	AIA Information	AIBD Information	*IDCEC Information	NAHB Information	NARI Information
Credit:	Not approved	Not approved	Not approved	3.0 Cr Hr	0.3 CEU
Course Number:	Not approved	Not approved	Not approved	N/A	N/A
Subject Code:	Not approved	Not approved	Not approved	N/A	N/A
Designation(s):	Not approved	Not approved	Not approved	Multiple	Multiple

6. **Design Documents (This is a three-hour course)**

This course provides an overview of the importance of complete and accurate project documentation, common document types and terminology, and plan interpretation. There is no pre-requisite education requirement, but there is the expectation that participants have a working knowledge of and experience with line and schematic diagrams, architectural drawings, and fundamental documentation procedures.

Association:	AIA Information	AIBD Information	*IDCEC Information	NAHB Information	NARI Information
Credit:	Not approved	Not approved	Not approved	3.0 Cr Hr	0.3 CEU
Course Number:	Not approved	Not approved	Not approved	N/A	N/A
Subject Code:	Not approved	Not approved	Not approved	N/A	N/A
Designation(s):	Not approved	Not approved	Not approved	Multiple	Multiple

7. **Project Management Process Flow: An Overview of the PMI Model (This is a three-hour course)**

This three-hour course introduces participants to the nine project management knowledge areas, helping them gain an understanding of how these nine knowledge areas fit into the project management process. Furthermore, attendees will learn about the components of the project lifecycle, what specifically occurs at each phase, and the concept of project process vs. knowledge areas.

Association:	AIA Information	AIBD Information	*IDCEC Information	NAHB Information	NARI Information
Credit:	Not approved	Not approved	Not approved	3.0 Cr Hr	0.3 CEU
Course Number:	Not approved	Not approved	Not approved	N/A	N/A
Subject Code:	Not approved	Not approved	Not approved	N/A	N/A
Designation(s):	Not approved	Not approved	Not approved	Multiple	Multiple

8. **Home Theater Room Design (This is a three-hour course)**

Room location, layout, shape, and soundproofing techniques are all crucial to the home theater design process; this course examines them all. The high impact of lighting conditions, sight lines, and noise generating components on design and the importance of factoring in ergonomics, safety, and acoustical distortion into a holistically designed room are also included within this session.

Association:	AIA Information	AIBD Information	*IDCEC Information	NAHB Information	NARI Information
Credit:	Not approved	Not approved	Not approved	3.0 Cr Hr	0.3 CEU
Course Number:	Not approved	Not approved	Not approved	N/A	N/A
Subject Code:	Not approved	Not approved	Not approved	N/A	N/A
Designation(s):	Not approved	Not approved	Not approved	Multiple	Multiple

9. **Introduction to Project Management (This is a 90-minute course)**

This 90-minute course introduces attendees to generally accepted project management knowledge and practices. These practices, as defined by the Project Management Institute (PMI) in A Guide to the Project Management Body of Knowledge (or PMBOK® Guide), will enable students to gain an understanding of the project life cycle, be introduced to the concept of project stakeholders, and learn to identify the nine knowledge areas of project management.

Association:	AIA Information	AIBD Information	*IDCEC Information	NAHB Information	NARI Information
Credit:	Not approved	Not approved	Not approved	1.5 Cr Hr	0.15 CEU
Course Number:	Not approved	Not approved	Not approved	N/A	N/A
Subject Code:	Not approved	Not approved	Not approved	N/A	N/A
Designation(s):	Not approved	Not approved	Not approved	Multiple	Multiple

\*IDCEC governs the continuing education for the following associations: ASID, IDC, IDEC, and IIDA

AIA: American Institute of Architects  
 AIBD: American Institute of Building Design  
 NAHB: National Association of Home Builders  
 NARI: National Association of the Remodeling Industry