

CEDIA Education:

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

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	Multiple

2. Structured Wiring for the Integrated Home

What is structured wiring and why is it so important in today's modern, integrated home? These questions, and many others, will be answered during this course. Participants will walk away with the ability to define structured wiring, explain why structured wiring is needed, and discuss technologies that use structured wiring infrastructure. Additionally, attendees will learn about the key components of a structured wiring system and what key discussion points and questions to raise when engaging the partnership of an Electronic Systems Contractor (ESC) 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:	CIO002	N/A	5628	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	N/A

3. 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	Multiple

4. 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	Multiple

5. 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	Multiple

6. 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	Multiple

7. 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	Multiple

8. 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	Multiple

9. 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 Electronic Systems Contractor (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	Multiple

10. 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	Multiple

11. 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	Multiple

Online Education Available at Your Convenience

1. Introduction to Sub-System Design

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:	N/A	N/A	N/A	3.0 Cr Hr	0.3 CEU
Course Number:	N/A	N/A	N/A	N/A	N/A
Subject Code:	N/A	N/A	N/A	N/A	N/A
Designation(s):	N/A	N/A	N/A	Multiple	Multiple

2. Introduction to Sub-System Control

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:	N/A	N/A	N/A	3.0 Cr Hr	0.3 CEU
Course Number:	N/A	N/A	N/A	N/A	N/A
Subject Code:	N/A	N/A	N/A	N/A	N/A
Designation(s):	N/A	N/A	N/A	Multiple	Multiple

3. Fundamentals of Home Theater Design

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:	N/A	N/A	N/A	3.0 Cr Hr	0.3 CEU
Course Number:	N/A	N/A	N/A	N/A	N/A
Subject Code:	N/A	N/A	N/A	N/A	N/A
Designation(s):	N/A	N/A	N/A	Multiple	Multiple

4. Introduction to Digital Media Servers

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:	N/A	N/A	N/A	3.0 Cr Hr	0.3 CEU
Course Number:	N/A	N/A	N/A	N/A	N/A
Subject Code:	N/A	N/A	N/A	N/A	N/A
Designation(s):	N/A	N/A	N/A	Multiple	Multiple

5. The Designer, the Client, and the Process

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:	N/A	N/A	N/A	3.0 Cr Hr	0.3 CEU
Course Number:	N/A	N/A	N/A	N/A	N/A
Subject Code:	N/A	N/A	N/A	N/A	N/A
Designation(s):	N/A	N/A	N/A	Multiple	Multiple

6. Design Documents

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:	N/A	N/A	N/A	3.0 Cr Hr	0.3 CEU
Course Number:	N/A	N/A	N/A	N/A	N/A
Subject Code:	N/A	N/A	N/A	N/A	N/A
Designation(s):	N/A	N/A	N/A	Multiple	Multiple

7. Project Management Process Flow: An Overview of the PMI Model

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:	N/A	N/A	N/A	3.0 Cr Hr	0.3 CEU
Course Number:	N/A	N/A	N/A	N/A	N/A
Subject Code:	N/A	N/A	N/A	N/A	N/A
Designation(s):	N/A	N/A	N/A	Multiple	Multiple

8. Home Theater Room Design

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:	N/A	N/A	N/A	3.0 Cr Hr	0.3 CEU
Course Number:	N/A	N/A	N/A	N/A	N/A
Subject Code:	N/A	N/A	N/A	N/A	N/A
Designation(s):	N/A	N/A	N/A	Multiple	Multiple

9. Introduction to Project Management

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:	N/A	N/A	N/A	1.5 Cr Hr	0.15 CEU
Course Number:	N/A	N/A	N/A	N/A	N/A
Subject Code:	N/A	N/A	N/A	N/A	N/A
Designation(s):	N/A	N/A	N/A	Multiple	Multiple

Instructor-led Education Offered Through CEDIA Events

1. Sub-Systems: Security

This 90-minute course is designed to give participants the opportunity to analyze and apply principles related to security, Closed Circuit TV, and access control integration. Participants will take these basic principles and apply them to new situations. It is expected that participants will already have a requisite knowledge of basic sub-system control and security components.

Association:	AIA Information	AIBD Information	*IDCEC Information	NAHB Information	NARI Information
Credit:	N/A	N/A	N/A	1.5 Cr Hr	N/A
Course Number:	N/A	N/A	N/A	N/A	N/A
Subject Code:	N/A	N/A	N/A	N/A	N/A
Designation(s):	N/A	N/A	N/A	Multiple	N/A

2. Sub-Systems: HVAC

Attendees will have exposure to basic principles regarding HVAC systems, HVAC components, and systems interfacing during this course. These principles will be analyzed and applied during this class by allowing attendees to evaluate and apply BTU and noise isolation principles related to HVAC control.

Association:	AIA Information	AIBD Information	*IDCEC Information	NAHB Information	NARI Information
Credit:	N/A	N/A	N/A	3.0 Cr Hr	N/A
Course Number:	N/A	N/A	N/A	N/A	N/A
Subject Code:	N/A	N/A	N/A	N/A	N/A
Designation(s):	N/A	N/A	N/A	Multiple	N/A

3. Sub-Systems: Lighting

This 90-minute course covers all elements relative to the basic principles of lighting control, including interfacing, terminology, and control elements. Attendees will be able to analyze this information and apply this knowledge in new situations upon completion.

Association:	AIA Information	AIBD Information	*IDCEC Information	NAHB Information	NARI Information
Credit:	N/A	N/A	N/A	1.5 Cr Hr	N/A
Course Number:	N/A	N/A	N/A	N/A	N/A
Subject Code:	N/A	N/A	N/A	N/A	N/A
Designation(s):	N/A	N/A	N/A	Multiple	N/A

4. Sub-Systems: Motorization

Participants in this three-hour course will walk away with a definition of motorization and sub-system integration and see demonstrations of the benefits this technique creates aesthetically and spatially. Attendees will learn how to take these basic principles and knowledge regarding motorization and apply them in current and future projects.

Association:	AIA Information	AIBD Information	*IDCEC Information	NAHB Information	NARI Information
Credit:	N/A	N/A	N/A	3.0 Cr Hr	N/A
Course Number:	N/A	N/A	N/A	N/A	N/A
Subject Code:	N/A	N/A	N/A	N/A	N/A
Designation(s):	N/A	N/A	N/A	Multiple	N/A

5. Home Theater Audio and Acoustics

During this three-hour course, attendees at all levels will learn about the advantages of psychoacoustics and ways to apply this knowledge to the optimization of the listening experience. Also examined are the basics of directional and spatial perception and where to put these sounds within acoustical contexts.

Association:	AIA Information	AIBD Information	*IDCEC Information	NAHB Information	NARI Information
Credit:	N/A	N/A	N/A	3.0 Cr Hr	N/A
Course Number:	N/A	N/A	N/A	N/A	N/A
Subject Code:	N/A	N/A	N/A	N/A	N/A
Designation(s):	N/A	N/A	N/A	Multiple	N/A

6. Quiet Room Construction

Recommended prerequisites: Fundamentals of Home Theater Design; Fundamentals of Sound Reproduction; Small Room Acoustics; Home Theater Room Design

Exploring sound-proofing techniques that reduce the impact external noises may have on the home theater experience is the goal of this course. This course also highlights the impact of extraneous noise on the home theater experience, and the impact possible home theater noise has on other areas of the home.

Association:	AIA Information	AIBD Information	*IDCEC Information	NAHB Information	NARI Information
Credit:	N/A	N/A	N/A	3.0 Cr Hr	N/A
Course Number:	N/A	N/A	N/A	N/A	N/A
Subject Code:	N/A	N/A	N/A	N/A	N/A
Designation(s):	N/A	N/A	N/A	Multiple	N/A

7. Fundamentals of Distributed Audio Systems

The purpose of this three-hour course is to educate participants on the design and specification of single-source, multi-room audio systems. The use of impedance matching devices to build such systems is covered in detail. Typical client budget, goals, and expectations will also be addressed. Additionally included are rules-of-thumb for ceiling and outdoor speaker placement, relationship of listening level to power, volume controls and speaker selectors, a summary of key terms, and best practices.

Association:	AIA Information	AIBD Information	*IDCEC Information	NAHB Information	NARI Information
Credit:	N/A	N/A	N/A	3.0 Cr Hr	N/A
Course Number:	N/A	N/A	N/A	N/A	N/A
Subject Code:	N/A	N/A	N/A	N/A	N/A
Designation(s):	N/A	N/A	N/A	Multiple	N/A

8. Introduction to Lighting and Lighting Control

Participants of this 90-minute course will glean a general knowledge of elements relative to lighting installation and the basic skills to understand configuring a lighting control system. Attendees will also receive information on load types, luminaires, measured vs. perceived lighting, light dimming, integrating lighting components in order to achieve the desired effect, physical layers for electrical supply, and lighting control.

Association:	AIA Information	AIBD Information	*IDCEC Information	NAHB Information	NARI Information
Credit:	N/A	N/A	N/A	1.5 Cr Hr	N/A
Course Number:	N/A	N/A	N/A	N/A	N/A
Subject Code:	N/A	N/A	N/A	N/A	N/A
Designation(s):	N/A	N/A	N/A	Multiple	N/A

9. Small Room Acoustics

The vocabulary of acoustics and ways to differentiate between mechanical vibrations and the ear/ brain interpretation of such vibrations are included in this session. This course also teaches the effects and treatment of reflected sound at high, mid and low hertz levels in small room environments, and the physics of sound and acoustics, addressing reflected sound problems, causes of noise and how to isolate noise, and acoustic principles to manage noise isolation.

Association:	AIA Information	AIBD Information	*IDCEC Information	NAHB Information	NARI Information
Credit:	N/A	N/A	N/A	3.0 Cr Hr	N/A
Course Number:	N/A	N/A	N/A	N/A	N/A
Subject Code:	N/A	N/A	N/A	N/A	N/A
Designation(s):	N/A	N/A	N/A	Multiple	N/A

10. Cable and Connector Properties

This 90-minute course covers cable and connector equipment, and details the specifications used to choose the appropriate type(s) for particular jobs. Also explained are the features of blueprints and wire schedules, as well as bandwidth and how it impacts performance for each cable and connector type, pros and cons of balanced and unbalanced interfaces, appropriate coaxial cables for S/PDIF connections, proper wiring procedures for various types of installs, test procedures and the proper types of test equipment for cable and connectors.

Association:	AIA Information	AIBD Information	*IDCEC Information	NAHB Information	NARI Information
Credit:	N/A	N/A	N/A	1.5 Cr Hr	N/A
Course Number:	N/A	N/A	N/A	N/A	N/A
Subject Code:	N/A	N/A	N/A	N/A	N/A
Designation(s):	N/A	N/A	N/A	Multiple	N/A

*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