

2008 AIA/CES Sustainable Design (Documentation to Form A)

Point of Contact Name: _____
Contact Telephone Number: _____
Contact email: _____

Provider Number Provider Name

- Use the 4-digit provider number issued by the AIA/CES

Course Number * Course Title (up to 64 characters)

*Each course must have an individual course name and number. For # use six alpha-numeric characters (no symbols or spaces).

AIA/CES Sustainable Design Worksheet

Sustainability is the concept of meeting present needs without compromising the ability of future generations to meet their own needs.

Sustainable design is achieved through an integrated design and delivery process that enhances the natural and built environment by using energy sensibly with a goal toward carbon neutrality, improves air and water quality, protects and preserves water and other resources, and creates environments, communities and buildings that are livable, comfortable, productive, diverse, and safe. *Refer to the CES Providers Manual Appendix, GUIDELINES FOR APPROVING AIA/CES SUSTAINABLE DESIGN COURSES, for detailed descriptions.*

Indicate what category applies to your course. Check all that apply:

- ☐ **I. Sustainable Design and Innovation** Sustainable design is an inherent aspect of design excellence. Projects should express sustainable design concepts and intentions, and take advantage of innovative programming opportunities.
- ☐ **II. Regional /Community Design** Sustainable design values the unique cultural and natural character of a given region.
- ☐ **III. Land Use and Site Ecology** Sustainable design protects and benefits ecosystems, watersheds, and wildlife habitat in the presence of human development.
- ☐ **IV. Bioclimatic Design** Sustainable design conserves resources and maximizes comfort through design adaptations to site-specific and regional climate conditions.
- ☐ **V. Light and Air** Sustainable design creates comfortable interior environments that provide daylight, views, and fresh air.
- ☐ **VI. Water Cycle** Sustainable design conserves water and protects and improves water quality.
- ☐ **VII. Energy Flows and Energy Future** Sustainable design conserves energy and resources and reduces the carbon footprint while improving building performance and comfort. Sustainable design anticipates future energy sources and needs.
- ☐ **VIII. Materials and Construction** Sustainable design includes the informed selection of materials and products to reduce product-cycle environmental impacts, improve performance, and optimize occupant health and comfort.
- ☐ **IX. Long Life/Loose Fit** Sustainable design seeks to enhance and increase ecological, social, and economic values over time.
- ☐ **X. Collective Wisdom and Feedback Loops** Sustainable design strategies and best practices evolve over time through documented performance and shared knowledge of lessons learned.

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SUSTAINABLE DESIGN TOPICS

Indicate what topics apply to your category selected. Check all that apply:

.Refer to the CES Providers Manual Appendix, GUIDELINES FOR APPROVING AIA/CES SUSTAINABLE DESIGN COURSES, for detailed descriptions. [Note: Category numbers that apply to each topic included to the right of the topic.]

(For a more detailed description of topics go to: www.aia.org/ces_sdguidelines)

TOPIC	CATEGORY	TOPIC	CATEGORY
☐ 1 Active Solar Systems	VII	☐ 32 Passive Solar Collection Opportunities	I, II, III, IV, VII
☐ 2 Alternative Energy	VII	☐ 33 Photovoltaics	VII, VIII
☐ 3 Alternative Transportation	II, III	☐ 34 Preservation/Reuse of Existing Facilities	I, II, III, IX, X
☐ 4 Appropriate Size and Growth	II, III	☐ 35 Radiant Heating and Cooling	VII, VIII
☐ 5 Building Form	I, IV, VII	☐ 36 Renewable Energy Resources	II, VII
☐ 6 Building Monitoring	V, VII, X	☐ 37 Rightsizing Equipment	I, VII, VIII
☐ 7 Building Orientation	III, IV	☐ 38 Smart Controls	IV, VII, X
☐ 8 Carbon Offsets	VII	☐ 39 Space Zoning	I, IV, VII, IX
☐ 9 Cavity Walls for Insulating Airspace	VIII	☐ 40 Staff Technical Training *	X
☐ 10 Co-Generation	VII	☐ 41 Sun Shading	I, III, IV, V, VII
☐ 11 Conserving Systems and Equipment	VI, VII	☐ 42 Systems Commissioning	VII, X
☐ 12 Construction Waste Management	VIII	☐ 43 Systems Tune-Up	VII, X
☐ 13 Cool Roofs	IV, VII, VIII	☐ 44 Thermal Bridging	I, IV, VII, VIII
☐ 14 Deconstruction and Salvage Materials	VIII, IX	☐ 45 Total Building Commissioning	VII, VIII, IX, X
☐ 15 Daylighting	III, IV, V, VII	☐ 46 Vegetation for Sun Control	I, II, III, IV, V, VI, VII, VIII
☐ 16 Earth Sheltering	III, IV, VII	☐ 47 Walkable Communities	I, II, III, IV
☐ 17 Efficient Artificial Lighting	V, VII	☐ 48 Waste-Heat Recovery	I, VII
☐ 18 Efficient Site Lighting Systems	III, VII	☐ 49 Water Conservation	II, III, VI, VII
☐ 19 Energy Modeling	I, VII, X	☐ 50 Windows and Openings	I, II, III, IV, V, VII, VIII, IX
☐ 20 Energy Source Ramifications	VII	☐ 51 Biomimicry	I, IV, VIII
☐ 21 Energy-Saving Appliances and Equipment	VI, VII, VIII	☐ 52 Zoning, Regulatory, Codes	II
☐ 22 Environmental Education	I, II, III, IV, V, VI, VII, VIII, IX, X	☐ 53 Safety and Security/Defensive Space	III
☐ 23 Geoexchange	III, IV, VI, VII	☐ 54 Indoor Environmental Quality	V, VIII
☐ 24 Green Roof	I, III, IV, VI, VII	☐ 55 Embodied Water	VI
☐ 25 High-Efficiency Equipment	VII, VIII	☐ 56 Prefabrication	VIII
☐ 26 Integrated Project Delivery	X	☐ 57 Green Specifications	VIII
☐ 27 Life Cycle Assessment	VII, VIII, X	☐ 58 Contract Docs (Sustainable Design)	X
☐ 28 Mass Absorption	III, IV, VII, VIII	☐ 59 [Lessons Learned]	[X]
☐ 29 Material Selection and Embodied Energy	VII, VIII, IX		
☐ 30 Natural Ventilation	III, IV, V, VII		
☐ 31 Open, Active, Daylit Spaces	II, IV, V		

*Staff training is related to applying knowledge gained from reviewing prior projects (feedback loops) or verifying prior outcomes of projects. This Material shall not include "train the trainer" type learning.

This program qualifies for Sustainable Design (SD) credit. ☐ Yes ☐ No

(SD subjects must cover at least 75% of the program.)