

## Purposeful Power: Energizing Environments by Design

### Course Title

Purposeful Power: Energizing Environments by Design

### Course Numbers

AIA Course #: HAW-2700 – HSW 1 LU / Introductory

Project Planning & Design / Building Design

IDCEC Course #: CEU-126088 – HSW 1 LU / Basic

Subject Code: 3. Interior Design Education / 1. Instruction

### Course Description

Purposeful power design plays a critical role in creating safe, healthy, and adaptable built environments. This course explores how thoughtful power planning and distribution can reduce friction, minimize safety risks, and support occupant well-being across a range of space types and use cases. Participants will learn key power planning principles, evaluate power accessibility and placement strategies, and apply regulatory considerations that impact health, safety, and welfare.

Through practical examples and real-world scenarios, the course provides guidance for specifying power solutions that support varied user needs, evolving technology demands, and inclusive, future-ready design outcomes.

### Learning Objectives

1. Explain how purposeful power design impacts occupant health, safety, and welfare by reducing cognitive stress, physical strain, and environmental friction while supporting autonomy, comfort, and equitable access to technology.
2. Identify essential workplace power planning principles—including load planning, diversity factors, voltage compatibility, and early cross disciplinary coordination—that contribute to safe, code-compliant, and adaptable power systems.
3. Evaluate power accessibility, placement, and distribution strategies across diverse space types (e.g., individual workstations, collaborative areas, conference rooms, cafés, and lobbies) to determine how effectively they support varied workstyles while minimizing safety risks and usability barriers.
4. Apply regulatory and compliance requirements—including NEC guidelines, UL standards, and pathway separation principles—when specifying workplace power solutions to protect occupant safety, reduce liability, and support long-term system reliability.

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