



Understanding Protective Glazing in Architectural Design for Medical and Educational Sectors: Using Fire-Rated, X-Ray Radiation, and Security Glazing to Improve the Health, Safety & Welfare of Building Occupants and Users

Course Number: mcgrory080520 | **Provider ID:** 40107192 | **Credits:** 1 LU | HSW

Course Description:

As architects retrofit, expand existing, or design new hospitals, medical facilities, and educational campuses, they work to achieve a necessary balance between form and aesthetics within budgetary constraints. Today, there's a complicated landscape of codes, requirements, and options to navigate. A key part of designing safe facilities is choosing the right mix of protective, structural and decorative glass to meet safety requirements while improving the health and welfare of building occupants and users such as staff, patients, teachers, and students.

This course offers an analysis of the latest innovations and trends in fire-rated, x-ray radiation, security and decorative glazings and how they can be used in architectural design. Attendees will learn about required building codes, testing standards, and ratings, plus how to work with glass manufacturers to achieve practical and aesthetic design objectives.

Course Objectives:

- The protective differences between safety and security glass.
- How fire-resistive and security glazing can help ensure safe corridors and evacuation routes, as well as intrusion prevention.
- The “need to knows” of different testing and certification methods for bullet, ballistic, and fire-rated protective glazing.
- The uses and applications of x-ray radiation shielding glass, available FDA-registered material and how it can support traceability, and combining safety glass with privacy options for HIPAA compliance.
- Using decorative glazing to promote the health and welfare of building occupants via daylighting features, privacy capabilities and wayfinding.
- Navigating clients' safety concerns and balancing with design requirements.