



**LIGHTBLOCKS AIA Course Description**

**Provider # 40107950, Course # 40107950-2015**

**The Art of Plastics in Architecture and Design**

At the end of this hour long course, participants should be able to design anything from a small table to a feature wall, partition, counter of fixture with confidence that they have specified the correct polymer, in the best thickness, with proper support. In addition, designing within fire rating requirements and documentation will be covered. This course gives a concise overview of toxicity in architectural polymers-off-gassing, recyclability and ensuring safe environments for the future.

Learning objectives

**Learning objective #1:**

**Design with the right polymer for the job for safe and strong results**

Different polymers have different properties. In this course you will learn the main qualities of the three most specified polymers, acrylic(PMMA), polycarbonate(PC) and polyester (PET and PETG)and why each is best suited for its own range of applications. Participants will choose materials for a birdhouse design and park bench after an overview of polymer properties.

**Learning Objective #2: Fire Ratings: What the code means and how to make sure designs comply**

Fire ratings in architecture can be confusing. Learn how materials are tested, what is meant by the various levels of ratings and why certain ratings are used for different situations. Learn how to be certain your specified material is in compliance. Test your understanding by choosing correct documentation documents for a nursing home hallway wall surface in New York City.

**Learning objective #3: A fast guide to engineering structures that will stand the test of time**



Specifying the proper polymer for the job is a good start as you learned in objective #1. Now learn how to support your design with engineering tips and advice from the worlds best fabricators, innovators and educators. Avoid the pitfalls in designing an illuminated desk.

#### **Learning objective #4: Resins, Plastics, Polymers and Toxicity-**

Learn how architectural polymers are made and how their use fits in to a sustainable future by understanding the fundamentals of polymerization that prevent finished products from creating environmental hazards. Practical recycling pathways and explanation of the term “Recycled Content” Create a pathway from dinosaur to desktop in our test example of sustainable design with polymers.

#### **Learning objective #5: Sound, Color and Touch, Designing for the Soul and Spirit**

Getting the design and materials correct will all be useless unless our designs are set apart by the delight they inspire. Learn how precision in lighting, exacting color and tone choices and the “hand” of a surface can be experienced through sound. Creating a better world through inspired design is a worthy mission.

If you are interested in having this course presented at your office for AIA credits please call or email me . All contact info is listed below.

Presentation is given by our owner Mary Boone Wellington and lunch is provided.

Best,

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