



MATERIALS & RESOURCES - GREEN BUILDING TECHNOLOGY TRAINING PROGRAM

FOR GREEN BUILDING AND SUSTAINABILITY SPECIALISTS

KRISHNAJI PAWAR, LEED AP BD+C, GSAS CGP, ISO 14001:2015, GCP

GREEN BUILDING SPECIALIST CURRICULUM





INTRODUCTION AND COURSE OUTLINE

FOR GREEN BUILDING AND SUSTAINABILITY SPECIALIST

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ONLINE TRAINING PROGRAM

MATERIALS AND RESOURCES

GREEN BUILDING TECHNOLOGY

GREEN BUILDING SPECIALIST

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LEARNING OBJECTIVES



Know how the credit requirements reflect LEED's goals for product transparency and optimization.

Recognize how the requirements for the credit work with a life-cycle approach to choosing building materials.

Recognise synergy among numerous credits

Discover how credit requirements result in enhanced building performance and market transformation.



MATERIALS AND RESOURCES



The Materials and Resources (MR) credit category focuses on minimizing the embodied energy and other impacts associated with the extraction, processing, transport, maintenance, and disposal of building materials. The requirements are designed to support a life-cycle approach that improves performance and promotes resource efficiency. Each requirement identifies a specific action that fits into the larger context of a life-cycle approach to embodied impact reduction.



CRITERIA IN THIS CATEGORY

MR PR STORAGE AND COLLECTION OF RECYCLABLES

MR PR CONSTRUCTION AND DEMOLITION WASTE MANAGEMENT PLANNING

MR CR BUILDING LIFE-CYCLE IMPACT REDUCTION

MR CR ENVIRONMENTAL PRODUCT DECLARATIONS

MR CR SOURCING OF RAW MATERIALS

MR CR MATERIAL INGREDIENTS

MR CR CONSTRUCTION AND DEMOLITION WASTE MANAGEMENT



MAXIMUM POSSIBLE CREDITS : 2 P / 13 C

WHO SHOULD ATTEND

Individuals seeking a greater understanding of the Materials and Resources category, LEED credits, and implementation criteria

Implementation of Materials and Resources Requirements for Green Buildings Seeking LEED Certification

Explore the LEED v4.1 Materials and Resources credits, which encourage project teams to utilize materials and resource aspects in existing communities that offer environmental and human health advantages.

This course is meant to teach students about Materials and Resources prerequisites and credits, including information, techniques, and new ways of doing things.





GET READY TO EARN
MATERIALS AND RESOURCES - GREEN
BUILDING TECHNOLOGY AND ENROL NOW!



MATERIALS AND RESOURCES

Check out the LEED v4.1 BD+C and ID+C Materials & Resources credits. These credits deal with the life-cycle of building materials and encourage the reuse and preservation of existing buildings, as well as the extraction, processing, transport, maintenance, and disposal of building materials. This course goes over each prerequisite and credit one by one, explaining the technical requirements and strategies that will help you get those credits.

There is no such thing as a truly sustainable material. Instead, a material is more or less sustainable depending on how it compares to the standard option. There are many different ways to measure sustainability, and it's up to you to decide which ones are most important to you.

For example, some materials that are more durable will last longer, so you won't have to replace them as often. However, if it takes a lot of energy to make them, that might not be a good thing (referred to as embedded energy). Every choice has pros and cons, and LEED helps us figure out which ones are most important from a sustainability point of view.



WHAT ARE THE MAIN AREAS OF FOCUS?

Material conservation Throughout its life cycle, a building generates a significant amount of garbage. The elimination of the requirement for materials during the planning and design phases is the first step toward meaningful waste reduction.

Materials that are environmentally friendly. Toxin-free, locally harvested, sustainably grown, manufactured from rapidly renewable resources, and biodegradable. All of these certifications reflect concern for the environment. Waste management and reduction are important.

The goal is to reduce the amount of waste brought to and disposed of in landfills or incinerators. Materials should be recycled or reused whenever possible during building or remodeling. Recycling, reuse, and reduction activities implemented throughout the building's regular operations can reduce the amount of garbage headed for local landfills.



WHY IS THIS IMPORTANT FOR BUILDINGS?

Materials and resources are the basis of the buildings where we live and work, as well as the things we put in them, the infrastructure that gets people to and from these buildings, and the things that happen inside them.

Because materials and resources are so common, it's easy to forget about their history and the costs of making, transporting, using, and getting rid of them.

They are moved, cleaned, made, and put into packages to sell. In a typical system, things are bought, used, and then thrown away, often in a landfill. But in reality, there is no "away," and each step in the process of making, using, and throwing away things has big environmental, social, and economic effects.

WHY IS THIS IMPORTANT FOR BUILDINGS?

The Materials category is about saving natural resources and using or reusing materials and structures in ways that have the least effect on the environment. The building industry has a big effect on the environment. It uses up about 40% of the raw stone, gravel, and sand used in the world every year. It also uses up about 25% of the raw wood and the carbon emissions that come with it.

Eco-friendly building materials can help reduce the negative effects on the environment and create buildings that are good for people's health and well-being.



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THANK YOU

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