Module 1: Sustainability Fundamentals
You will begin with a foundation of the principles of sustainable design, defining green building contextually as it plays a critical role in the environmental, social and economic well being of society. Case studies will highlight the benefits, environmental, social and economic well being contextually as it plays a critical role in the context of sustainable design, defining green building.

LEED® Exam Preparations
We are offering Leadership in Energy and Design LEED® Certification preparation courses in three disciplines. These certifications provide a marketable credential to an employer, prospective employer or client. Please check the U.S. Green Building Council website at www.usgbc.org for eligibility requirements and to purchase the appropriate textbook for your course.

LEED® Green Associate Exam Prep
This credential represents mastery of basic knowledge in green design, construction and operations, as well as serving as the first step for professionals pursuing a LEED® AP (Accredited Professional) specialization. Textbook optional: USGBC LEED® Green Associate Study Guide. (Note: Please bring a lunch — cafeteria closed.)

Module 2: Energy and Water Efficient Design
You will learn how to design a building to meet high performance guidelines. Topics will include an overview of the comprehensive and specific design and construction measures necessary to reduce building loads through passive solar design strategies, fundamentals of the critical interactions between building shell, HVAC equipment and lighting and occupant interaction with the building system. We present an overview of the natural systems based design strategies utilized to reduce environmental impacts of conventional site and landscape design. You will gain and understanding of the approaches to outdoor and indoor water conservation strategies, on-site storm water management, and sustainable landscaping.

Module 3: Indoor Environmental Quality/Life Cycle of Green Materials
This course will describe both the building maintenance dynamics and airflow the directly affect indoor environmental quality and energy consumption and factors linking environmental exposures to health problems. Topics to be discussed in detail include; radon, combustion products (including building ventilation and the ASHA® 62.2 Standard) lead, mold, asthma triggers, volatile organic compounds, and emerging issues including flame retardants, BPA and Chinese drywall. In addition, this course will provide fundamental understanding of what makes a product green, what the main components are in our most common building materials, the impacts each element has on the environment and what to consider when designing a home directly relating to material specifications. Recycling and bulk purchasing of green materials will be addressed from both residential and commercial perspectives.

Module 4: Green Building for Existing Homes/Sales and Marketing
Green Building is all the rage these days for new construction. Learn how we specifically implement these practices in existing homes, safely, economically, aesthetically and environmentally, and then learn to market these products. Brand your organization as GREEN and convey your message with high impact to your customers. Certification avenues (LEED®, BPI, USGBC, ENERGY STAR® and others) will be discussed as well as the steps to effectively integrate green language and practices in the work environment to enhance your marketing potential.

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LEED® AP Green Associate Exam Prep
This course will describe both the building maintenance dynamics and airflow the directly affect indoor environmental quality and energy consumption and factors linking environmental exposures to health problems. Topics to be discussed in detail include; radon, combustion products (including building ventilation and the ASHA® 62.2 Standard) lead, mold, asthma triggers, volatile organic compounds, and emerging issues including flame retardants, BPA and Chinese drywall. In addition, this course will provide fundamental understanding of what makes a product green, what the main components are in our most common building materials, the impacts each element has on the environment and what to consider when designing a home directly relating to material specifications. Recycling and bulk purchasing of green materials will be addressed from both residential and commercial perspectives.

LEED® AP Homes Exam Prep
This LEED® specialty provides a standard for professionals participating in design and construction of high-performance green homes which use less energy, water and natural resources, create less waste, and are more healthful and comfortable. Required book: USGBC LEED® AP (Accredited Professional) Homes Study Guide. (Note: Please bring a lunch — cafeteria closed.)

Module 5: Professional Programs
LEED® AP ID+C Exam Prep
The LEED® AP for Interior Design and Construction (ID+C) provides a standard for professionals participating in the design and construction of high-performance commercial spaces and tenant improvements that provide healthy, productive workplaces to live and are environmentally and occupationally responsible. Required book: USGBC LEED® AP (Accredited Professional) Interior Design & Construction Study Guide. (Note: Please bring a lunch — cafeteria closed.)

Module 6: Studio Capstone Presentations
Prerequisite: Students should complete all four (4) courses before enrolling in the Capstone course. Independent study culminating in a four-hour class where students present their projects. 0.4 CEU. Tuition and fees: $95 XTC153-TBA Coming in January 2011 2 sessions Tu,W 6-9pm Robert Wonieski Director of Sustainable Design
Certificate in Construction Project Management

To earn the certificate, you must take eight core courses and a minimum of 30 classroom hours of electives.

Core Courses

1. Construction Blueprint Reading [Spring 2011]
2. Materials, Methods and Systems of Construction
3. Contract Law in the Construction Industry
4. Construction Change Orders and Claims
5. Construction Cost Estimating I
6. Construction Project Management [Spring 2011]

Electives

-AMA Successful Negotiating
-AMA Successful Project Management
-AMA Successful Procurement
-AMA Uniform Project Management Standards

Any course in the Green Future Management Program

Construction Change Orders and Claims

In the design and construction process, with unforeseen conditions, it is rare to find projects that do not require “Changes to Contracts” or Change Orders. Topics discussed include means and methods of preparing the Change Orders, scope, pricing of work and methods of negotiation. Impacts of Change Orders on the Project Schedule/Completion will also be discussed. Includes also are avoided of claims, preparation of claims and their resolution.

Certificate in Construction Project Management on budget. Earn our Certificate or just take the courses that interest you. Understand the principles and theories into immediate action on the job. Complete your projects on time and on budget. Earn our Certificate or take the courses that interest you.

Materials, Methods, and Systems of Construction

Prerequisite: Construction Blueprint Reading

This course will familiarize the student with the various materials, methods and systems of construction and computer literature.

Construction Cost Estimating I

Prerequisite: Construction Blueprint Reading.

This course is designed for beginning estimators with a focus on developing a solid estimating foundation. Completion of the course will enable the estimator to understand the importance of accurately estimating projects.

Building Inspector RCS

This course covers the administrative, plan review and inspection requirements for structural, energy, radon, and mechanical systems applicable to Class I, II, and III structures.

Building Inspector ECS

This course covers the administrative, plan review, and inspection requirements for electrical systems design, accessibility, fuel gas, and mechanical systems applicable to Class I, II, and III structures.

Building Inspector Electrical

This course provides background information on the requirements of the National Electric Code and other electrical standards as they relate to the Efficient operation and public interaction.

Building Inspector Civil

This course provides background information on the requirements of the Uniform Construction Code and other civil standards as they relate to the Efficient operation and public interaction.

Subcode Official

Prepares inspectors for the administrative license of subcode official. Subcode administration, legal aspects, correspondence, plan review, and related legislation are covered. Topics include procedures and forms for subcode applications, stop construction orders, violations, notices of violation, emergency situations, and recordkeeping.

Uniform Construction Code Technical Assistant Certification

This 45-hour course provides the educational requirements needed for the Technical Assistant Certified. The Technical Assistant provides administrative support to the officials and inspectors with the local, county or state construction code enforcement office/agency. This course provides a review to the administrative procedures in issuing permits, coordinating inspections, serving notices, stop work orders and violations, and calculating the costs of forms of Certificates, record keeping and state report generation, as well as other tasks relevant to the efficient operation and public interaction.

Landscape Design, Estimating and Management

This course is intended for you if you are a landscape professional who is looking for the landscape industry or building industry who would like to improve your skills in the areas of design, estimating and management. Over the course of 12 weeks, you will learn how to:

- Develop, present and sell a landscape design project
- Prepare a project budget
- Market a project by planning daily administrative support to the officials and inspectors with a local, county or state construction code enforcement office/agency. This course provides a review to the administrative procedures in issuing permits, coordinating inspections, serving notices, stop work orders and violations, and calculating the costs of forms of Certificates, record keeping and state report generation, as well as other tasks relevant to the efficient operation and public interaction.

Uniform Construction Code Program

Experienced contractors who wish to become NJ Construction Code Enforcement Inspectors and Officials must complete a mandatory education program under the New Jersey Uniform Construction Code. MCCC has been approved by the NJ Department of Community Affairs (DCA) to offer the required courses intended for students seeking licensure in New Jersey to study code standards.

After taking the required courses, contractors are allowed to take the Professional Exams. Students needing additional material and training for the national exams or with questions about requirements or textbooks should contact the DCA at 609-984-7569 (refer to the Uniform Code index.html or the publications office at 609-984-0040). The DCA has a program of reimbursement for a percentage of the cost of tuition for each course successfully completed, if funding is available.

The same textbook is used for all courses. For more information, please obtain textbook online at http://www.nj.gov/dca/codes. (Allow four to six weeks for delivery.)

Building Inspector RCS

Prerequisite: Course in Construction Project Management

This canister covers the administrative, plan review and inspection requirements for structural, energy, radon, and mechanical systems applicable to Class I, II, and III structures.

Building Inspector ECS

Prerequisite: Course in Construction Project Management

This canister covers the administrative, plan review and inspection requirements for electrical systems design, accessibility, fuel gas, and mechanical systems applicable to Class I, II, and III structures.

Building Inspector Civil

Prerequisite: Course in Construction Project Management

This canister covers the administrative, plan review and inspection requirements for civil systems design, accessibility, fuel gas, and mechanical systems applicable to Class I, II, and III structures.

Building Inspector Electrical

Prerequisite: Course in Construction Project Management

This canister covers the administrative, plan review and inspection requirements for electrical systems design, accessibility, fuel gas, and mechanical systems applicable to Class I, II, and III structures.