

MC3 Michigan Construction Career Council

Brindley Byrd
Executive Director

(517) 492-5575 2110 S. Cedar Street
bbyrd@camw.net Lansing, MI 48911

Part of: 

MC3 Formation

- **May 2006:** Capital Area Michigan Works! (CAMW!) released their annual labor market report titled *Construction: Building the Capital Area's Future*
- **January 2007:** CAMW! was awarded a *Michigan Regional Skills Alliance Grant* and formed the Capital Area Construction Council
- **August 2009:** Changed name to Michigan Construction Career Council and expanded service area to include the entire state.

Created to...

Address workforce development issues facing the construction industry:

- 1) Improve industry image.
- 2) Recruiting future construction workers.
- 3) Access to construction careers.
- 4) Enhance construction education and training.

Areas of Activity

- **All-Industry Participation**
 - Able to garner support and participation from all industry sectors.
- **Construction Economic Indicators**
 - Employment Levels
 - Construction Starts
 - Put In Place
- **Worker Training**
 - Incumbent Workers
 - Future Workers
 - Transition Workers
- **Career Exploration**
 - Block Kids!
 - SkillsUSA Michigan
 - Michigan Construction Career Days
- **Connecting Companies with Michigan Works!**
 - Administered \$252,520 of Incumbent Worker Training grants through CAMW!
- **Partner with Education**
 - K-12, CTE, ISD's, Community Colleges, Universities, MDE
- **CAMW! YouthBuild**
 - \$1.1 million DOL Grant

Michigan Construction Career Days 2010

When: April 27 & 28, 2009
Where: Springfield Oaks County Park
Oakland County
Davisburg, MI

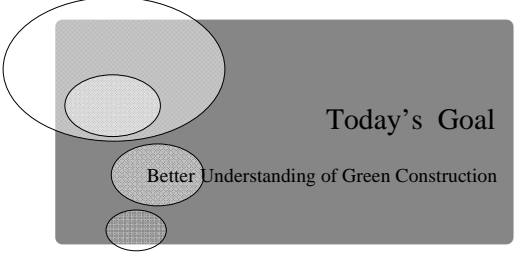
www.MichiganCCD.org



What's this all about?

The right SKILLED people...

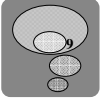
...In good paying construction JOBS.



Today's Goal

Better Understanding of Green Construction

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


Recent Green Activity

- Deconstruction & Weatherization Roundtable
 - DELEG & AGC of Michigan
- Green Construction Course Development
 - Mott Community College
- MI Dept. of Education
 - Michigan Construction Teachers Association

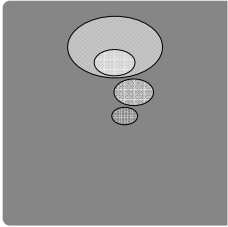
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Green Training - Funded



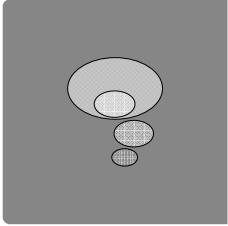
- Green Built™ Michigan
- Green Mechanical Awareness
- LEED AP
 - Workshops
 - Private Sessions
- Green Advantage™ Environmental Certification
- Building Science Academy

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HGTV Video

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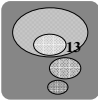


Green Building Guidelines & Standards

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Green Building Guidelines & Standards

Growing fast... growing stronger?
Nationally Recognized

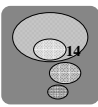


1. USGBC LEED Green Building Rating Systems
2. NAHB Model Green Building Guidelines
3. ANSI National Green Building Standard ANSI-ICC 700-2008
4. USGBC/ASID ReGreen Residential Remodeling Guidelines
5. Green Globes
6. Building Performance Institute
7. RESNET
8. EPA Energy Star

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Green Building Guidelines & Standards

Follow same framework...

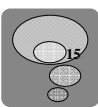


- Set design matrix
- Specific to the building
 - Use
 - Occupancy
 - Location
- Categories of Design
- Point System
- Verification/Rating

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usgbc.org



USGBC LEED v3.0



United States Green Building Council
Leadership in Energy and Environmental Design

Commercial in focus
Residential component

9 Different Ratings

- NC** – *New Construction*
- EB** – *Existing Buildings*
- CI** – *Commercial Interiors*
- C&S** – *Core & Shell*
- S** – *Schools*
- R** – *Retail*
- Health** – *Healthcare*
- H** – *Homes*
- ND** – *Neighborhood Development*

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NAHB Green Building Guidelines


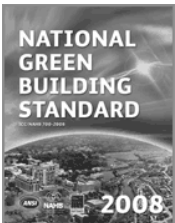
For New Construction.
Can be adapted to remodeling.

nahb.org

National Green Building Program

Picked up by state and local HBA's.

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ANSI Green Building Standard

Adopted from NAHB GBG.
Used for future codes.

builderbooks.com

Available March 9, 2009

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
USGBC/ASID Residential Remodeling Guidelines

Collaboration
Focuses on remodeling.

regreenprogram.org

No certification...yet!!

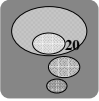
Green Globes



greenglobes.com


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Building Performance Institute (BPI)



Certifies Residential Structures
Blower Door
Thermal Imaging Scanning
Carbon Monoxide Testing

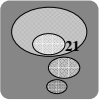
BPI.org



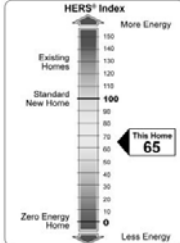
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RESNET (Residential Energy Services Network)

Certifies Residential Structures



Blower Door
Thermal Imaging Scan



natresnet.org

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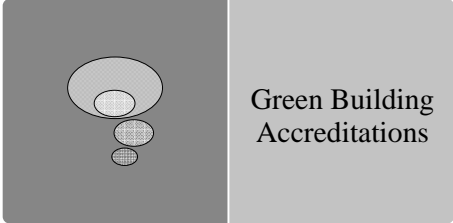
Green Built™ Michigan
 Uses NAHB GBG
 Regional Program

greenbuiltmichigan.org

Certifies...

- Houses
- Builders
- Raters

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Green Building Accreditations

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Green Building Certifications
 Where to go...to get to know?

Nationally/Regionally Recognized

1. USGBC
2. Building Performance Institute
3. RESNET
4. NAHB Certified Green Professional
5. NARI Certified Green Building Professional
6. EPA Energy Star®
 - Builder/Rater Program
 - Home Performance with Energy Star
7. Green Advantage™ Environmental Certification
8. GMC Green Mechanical Awareness
9. Green Built™ Michigan Builder/Rater

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USGBC
Accreditations:

LEED Green Associate
LEED AP
LEED Fellow

gbc.org

5 LEED AP Tracks

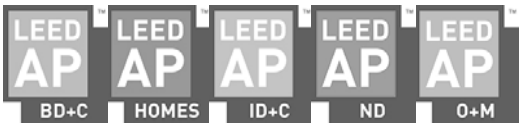
BD+C
Building Design & Construction

Homes


ID+C
Interior Design & Construction

ND
Neighborhood Design

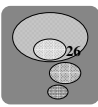
O+M
Operations & Maintenance



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Building Performance Institute (BPI)



Certifies Residential Structures

Accreditations


Building Analyst
HVAC Technician
Building Envelope
Air Sealing/Insulation

BPI.org


BuildingScienceAcademy.com

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NAHB Certified Green Professional (CGP)



- NAHB University of Housing
- 16-hour course
- Exam
- Fees & CEU's for certification
- Business Management for Building Professionals®
- Offered through local HBA or MAHB



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NARI Green Certified Professional (GCP)



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You are eligible to sit for the GCP exam if you meet the following requirements:

- Are employed by or own a firm engaged in commercial or residential green remodeling
- Have a minimum of five years continuous full time experience in the remodeling industry
- Have completed 16 hours of education addressing green or sustaining building and/or remodeling principles within the last five (5) years
- Sign an attestation to uphold NARI's Code of Ethics



nari.org

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EPA Energy Star



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Typical features to look for in ENERGYSTAR qualified homes:

- An Efficient Home Envelope**, with effective levels of wall, floor and attic insulation properly installed, comprehensive air barrier details, and high-performance windows;
- Efficient Air Distribution**, where ducts are installed with minimum air leakage and are effectively insulated
- Efficient Equipment for heating, cooling, and water heating**
- Efficient Lighting**, including fixtures that earn the ENERGY STAR
- Efficient Appliances**, including ENERGY STAR qualified dishwashers, refrigerators, and clothes washers.

- New Homes
 - **Energy Star Builder**
- Home Improvement
 - **Home Performance with Energy Star**
- HERS Rating System



energystar.gov

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Green Advantage™ Environmental Certification



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- Three Tracts
 - Commercial
 - Residential
 - Commercial/Residential
- 16-hour course
- Textbook
- Exam

- Two Curricula
 - Green Advantage
 - NCCER
- *Understanding Your Role in the Green Environment*



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Green Mechanical Awareness



- Green Mechanical Council
 - Ferris State University
 - HVAC Excellence



- HVAC Technician Training
 - Controls
 - Maintenance & Operation
 - High Tech Monitoring

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Green Built™ Michigan



- Courses offered by Green Built Michigan
- Builder & Rater Training
- Green Scoring Tool



greenbuiltmichigan.org

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Building Michigan's Construction Workforce

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Executive Director
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bbyrd@camw.net

Part of:



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