

Certification for Residential Construction

*The Home Builders Institute
HBI/NAHB Certification Process*

Home Builders Institute is excited about its certification protocols for instructors and students. HBI has partnered with The Ohio State University for the instructor online certification course and with the National Occupational Competency Testing Institute (NOCTI) for student certification through online testing. If your instructor and students become certified, your program is eligible for credentialing.

Instructor Certification:

HBI offers instructor industry certification to ensure consistency in instructor teaching/training methodologies and knowledge competency when teaching to the NAHB skill standards contained throughout the Residential Construction Academy Series curriculum. If an instructor is teaching from the RCA Series but chooses not to take the course, his/her students are still eligible for HBI student certification. Instructor Certification is valid for five years.

Student Certification:

Student certification will be administered through NOCTI in specific trade areas. All tests are based on industry standards as are the materials contained in the Residential Construction Academy Series. The testing available includes Carpentry, HVAC, House Wiring, Facilities Maintenance and Basic Principles for Construction. These will be followed by Plumbing and Masonry. Certification is available for secondary, postsecondary and industry levels.

Program Credentialing:

HBI has instituted a revised and enhanced credentialing process. HBI will consider your program for credentialing provided the RCA Series is being used for instruction and instructor and students are participating in the HBI certification process (see above).

HBI Instructor Certification

HBI's online application for instructor certification is now available at www.hbicertification.org.

Certification courses are offered online in partnership with The Ohio State University. Applications are reviewed by HBI.

The application steps are easy:

- 1) Submit your Application for Enrollment Form (you will receive notification that it has been received)
- 2) You will be notified by HBI that your form is complete and approved
- 3) Submit your \$400 payment for the course www.hbi.org/certification
- 4) HBI will forward your information to The Ohio State University

- 5) You will receive (via email) access to The Ohio State University online classroom system

How it works:

- Certification will be taught in sixteen (16) distinct online modules that constitute the course.
- You must answer seven (7) of the ten (10) questions correctly to successfully complete a module.
- You must successfully complete thirteen (13) of the sixteen (16) modules to receive certification.
- You have six (6) consecutive weeks to complete all sixteen (16) modules.
- You are given an opportunity to retest (one time only) on any module were you did not receive a passing score.

Sample Module Titles:

- Role of the Teacher
- Foundations of CTE
- Introduction to Adult Learners
- Teaching Adult Learners
- Understanding and Using Principles of Learning/Characteristics of Learners
- Understanding and Using Learning Processes
- Making the Four Curriculum Planning Decisions
- Integrating Academics into Career Technical Curriculum
- Assessing Student Learning
- Introduction to Lesson Plan Form
- Writing Performance Objectives
- Selecting and Using Instructional Strategies and Methods
- Classroom & Lab Management
- Teaching Safety in the Career Technical Setting
- Working Within the School/Community - Advisory Committees
- Integrating RCA

Test-Out Option:

Participants must have sufficient educational and craft skills experience to be considered for the test out option. Contact HBI at certification@hbi.org if interested in the test-out option.

- Administered by OSU.
- Consist of one hundred to one hundred fifty (100/150) test question.
- You must score in the 80th percentile to be considered for certification.
- The cost of the test-out option is \$100.00

If you choose to test-out, you will not be awarded any Continuing Education Units (CEUs) from The Ohio State University.

HBI Student Certification

HBI has launched the initial certification test for residential construction in the areas of carpentry, HVAC, house wiring on the NOCTI website. Tests for certification may be ordered through the NOCTI website at www.nocti.org. Certification assessments are based on national skill standards set by NAHB industry professionals and educators. National cut scores have been established to identify the three skill levels.

Certification is offered for the following levels of education:

- secondary
- post-secondary
- industry

Certification testing is offered at three proficiency levels:

- entry
- semi-skilled
- skilled

Most institutions prefer to utilize online testing for students. There are, however, some circumstances that dictate use of paper/pencil testing. Both types of testing are scored by a secured entity.

Cost for online testing:

- \$19-Secondary /Post-secondary
- \$35-Industry

Cost for paper/pencil testing:

- \$25-Secondary /Post-Secondary
- \$39-Industry

HBI Program Credentialing

- To have a credentialed program both instructor and students must be certified (see above)
- The RCA Series must be used for classroom instruction
- An instructor may request renewal of his/her credentialed program at the same five-year time period that the individual instructor certification is renewed

Contact HBI at certification@hbi.org for credentialing details

About the Residential Construction Academy (RCA) Series

HBI Curriculum:

The RCA Series – *Setting the Standard for Home Building Excellence!* A partnership with Delmar-Cengage Learning, a noted education publisher, the Series includes textbooks and instructional materials based on skill standards identified by the nation's home builders and leading educators (available online at <http://www.residentialacademy.delmar.cengage.com/skillstandards/formula.aspx>). They

are ideal for use by high schools, post-secondary educational institutions such as career & technical education and workforce development programs, technical colleges, community colleges, four-year colleges and universities, professional associations and trade unions. Visit the RCA Series website at www.residentialacademy.com.

Included in the Series:

- Basic Principles for Construction
- Carpentry
- Electrical Principles
- Facilities Maintenance
- Housing Wiring
- HVAC
- Masonry
- Plumbing
- Green Applications for Residential Construction

Basic Principles for Construction:

The text contains a comprehensive set of training materials that help users learn the work skills, functions and soft skills determined by NAHB industry leaders to be helpful to anyone seeking a career in the construction industry. The books five sections follow:

- The Construction Industry
- Safety
- Construction Math
- Tools and Fasteners
- Print Reading

Trade Specific Textbooks:

The textbooks are based on industry standards created by construction professionals and educators and follow guidelines from the National Skills Standards Board.

- Skill Standards establish national standards for the residential construction industry that reflect industry skill requirements.
- The Standards are a source for developing program and curriculum and evaluating the outcomes of training programs.
- Standards are useful to educators for designing curriculum and evaluating a student's training outcomes.
- Standards provide a basis for training of workers.
- Standards provide employers with objective benchmarks for selecting employees and evaluating training needs.
- The standards are online at: www.residentialacademy.com/skillstandards/

Green Applications for Residential Construction:

This text is a collection of supplemental material for the Residential Construction Academy (RCA) series textbooks that will introduce readers to trade-specific green building practices. The Introduction explains general green building principles and each trade-specific section explores how a carpenter, plumber, HVAC installer, electrician

and mason can apply green building principles and jobsite practices while they plan and execute their work.

Green Build Resource

Residential Standard:

The National Association of Home Builders Research Center offers resources and tools to help builders, remodelers, home building associations, and homeowners learn how to build green, and discover the benefits of doing so. The Research Center also offers third-party certification based on the National Green Building Standard.

The ICC-700-2008 National Green Building Standard (NGBS), approved by the American National Standards Institute in January 2009, establishes a nationally-recognizable standard definition of green building for single and multifamily homes, residential remodeling projects and site development projects while allowing for the flexibility required for regionally-appropriate best green practices. The standard's Bronze, Silver, Gold and Emerald levels each represent more stringent levels of achievement: For instance, Emerald-rated homes must be built to be at least 60 percent more energy-efficient than those conforming to the prevailing code.

You can learn more about the standard at www.nahbgreen.org.

CONTACT INFORMATION

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In the office from 7:30am to 4:00pm