Maryland State Department of Education

Construction and Development Professional Conference

Friday, October 15, 2010

National Center for Construction Education and Research

Affiliated with the University of Florida

The Workforce Gap

Where 9th Graders Are Headed

vs.

Where the Jobs Are

28% will enter a 4-year college

32% will enter an associate degree program or advanced training

10% will lack the skills needed for employment

30% will drop out of the system before completing high school

20% require a 4-year college degree

65% require an associate's degree or advanced training

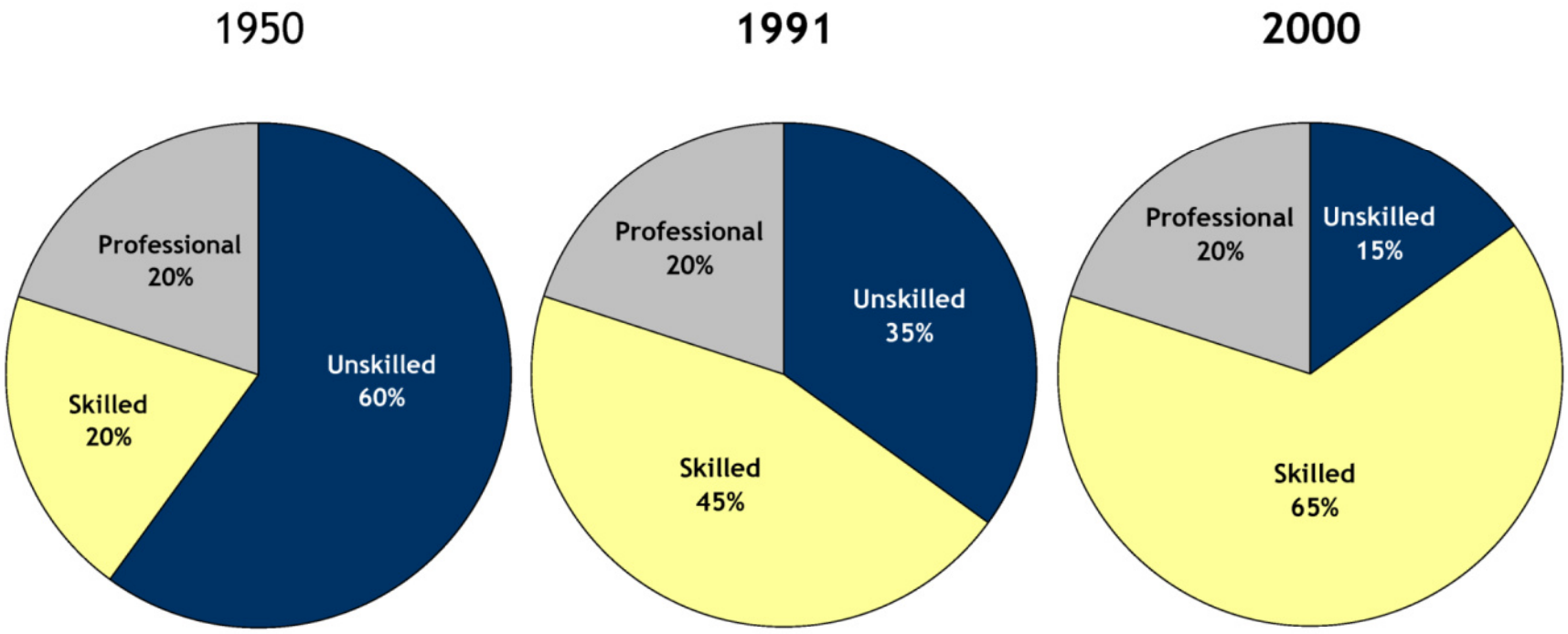
15% require minimum skills for employment

SOURCE: Carol D'Amico," Workforce 2020: Work & Workers in the 21st Century"

Workforce Shortage

Demand for Skilled Workers Triples

(% of Total Workforce)

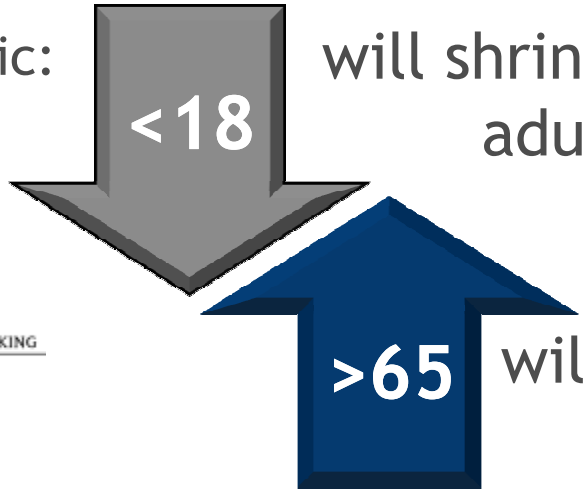


SOURCE: U.S. Bureau of Labor Statistics.

Who Will Build Our Projects?

- **75** million baby boomers approaching retirement age
- **8,000** baby boomers per day turn **60**
- **20%** of the construction workforce will retire in the next **2 - 4** years
- **2010:** more than **½** of the U.S. population is over **50**

Youth Demographic:



will shrink in comparison to adult population

will grow faster than total population

FMI Management Consulting • Investment Banking for the Construction Industry

Mission Statement

To build a safe, productive, and sustainable workforce of craft professionals.

Industries Served

- Construction
  - Commercial
  - Residential
  - Industrial
  - Heavy Highway
- Maintenance
- Energy
- Pipeline
- Manufacturing
- Shipbuilding

2010 Board of Trustees

- Nova Group [Chair]
- Crossland Construction [Vice Chair]
- Fluor [Past Chair]
- Beacon Electric
- Cianbro
- Construction Industry Institute
- Current Builders
- DuPont
- ExxonMobil
- Gaylor Electric
- Intel
- Jacobs
- James W. Elmer Construction
- Kellogg Brown & Root
- LeGlue & Company, CPAs
- M.W. Mielke
- Precision Resources
- Repcon Strickland
- Shell Downstream
- SkillsUSA
- University of Florida, Rinker

For more information, visit: www.nccer.org/BoardOfTrustees.aspx

Partners

nccer

ABC
Associated Builders and Contractors, Inc.

Association for Career and Technical Education
ACTE

acce

AFSA
American Fire Sprinkler Association

AGC of America
THE ASSOCIATED GENERAL CONTRACTORS OF AMERICA
Quality People. Quality Projects.

ASTS
Association for Skilled and Technical Sciences

CLEMSON
UNIVERSITY

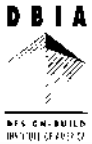
CarolinasAGC
Home of Build

CECA

CII
CONSTRUCTION INDUSTRY INSTITUTE

CONSTRUCTNET
INTERNATIONAL

CURT
THE CONSTRUCTION USERS ROUNDTABLE


DBIA

JUDGMENT INDEX

MBMA
METAL BUILDING MANUFACTURERS ASSOCIATION

MERIT
contractors association

MERIT
SHOP
TRAINING, INC.

NORTH AMERICAN
NATE
TECHNICIAN EXCELLENCE

NACE
INTERNATIONAL

NAMC
NATIONAL ASSOCIATION OF MINORITY CONTRACTORS

MANUFACTURING
Institute

NAWIC

NEF

NTHS

NIA
National Insulation Association
www.insulation.org

NRMCA

WE DIG AMERICA
NATIONAL UTILITY CONTRACTORS ASSOCIATION

PimaCommunityCollege

pca

PDCA
PAINTING & DECORATING CONTRACTORS of AMERICA

SkillsUSA

STEEL ERECTORS ASSOCIATION OF AMERICA
SEAA

UF
UNIVERSITY of FLORIDA

PUBLIC EDUCATION PROVIDER PROGRAM

WOMEN CONSTRUCTION OWNERS & EXECUTIVES

ISNETWORLD
ISN
DATA PROVIDER

ACT

PEARSON

ProV

McGraw Hill
CONSTRUCTION

NACB
NORTH AMERICAN CRANE BUREAU, INC.

Standardized Training Process

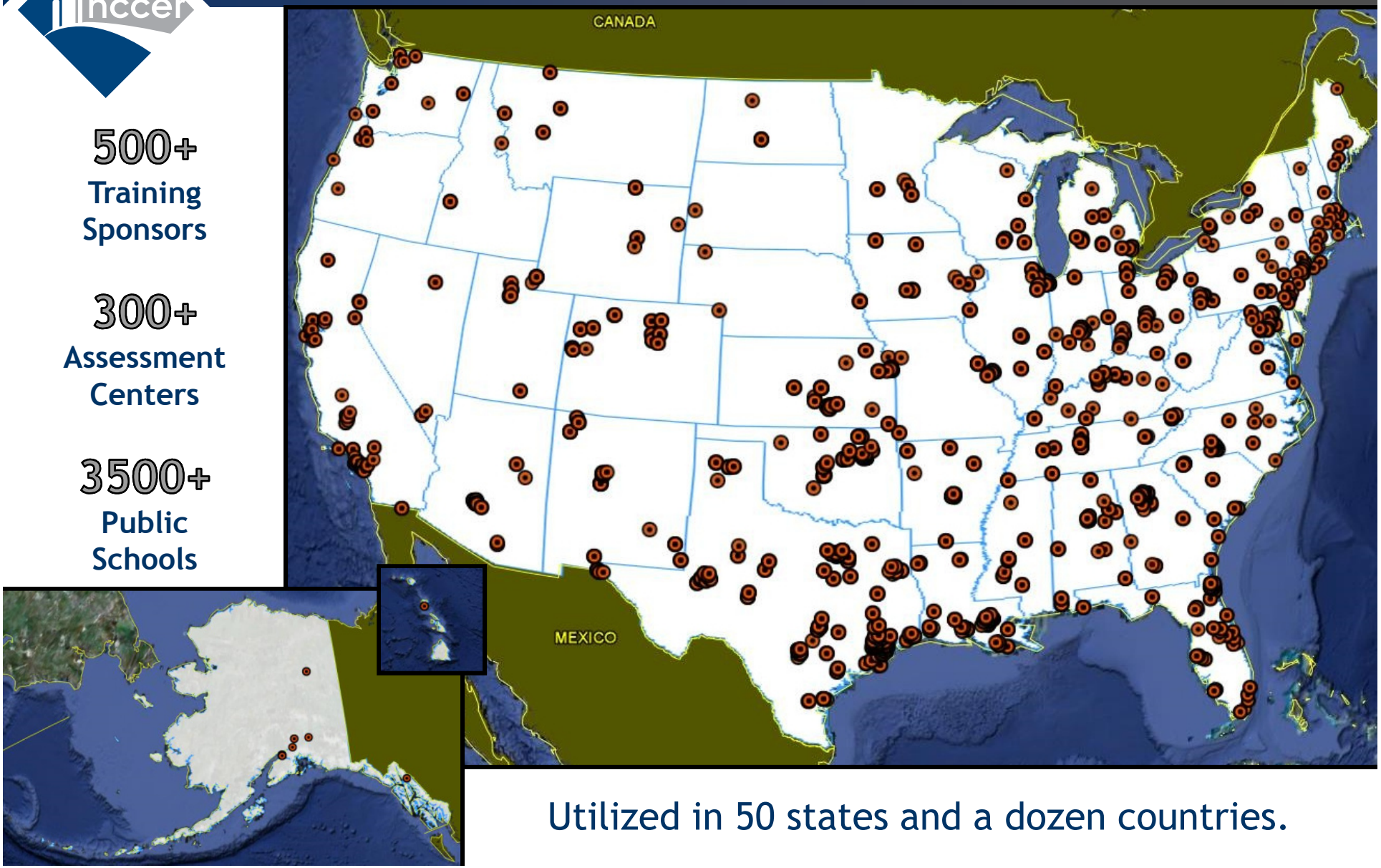
- Standardized Construction Curricula
- Craft, Safety & Management Education
- Accreditation for the Organization
- Instructor Certification
- National Registry

National Accreditation Growth

500+
Training Sponsors

300+
Assessment Centers

3500+
Public Schools



Utilized in 50 states and a dozen countries.

Initiatives in Education

New State Participation

- Ohio Department of Education
- Utah Department of Education
- Alabama Department of Education
- Nebraska Department of Education
- Mississippi Construction Education Foundation (NCCT)
- Pacific Gas & Electric / California Department of Education

NCCER & SkillsUSA Partnership

SkillsUSA is a partnership of students, teachers & industry working together to ensure America has a skilled workforce.

FACTS:

- f/k/a VICA (Vocational Industrial Clubs of America)
- Serves 300,000 students & instructors annually
- 13,000+ school chapters in 54 state & territorial associations
- 14,500+ instructors & administrators are professional members

NEW INITIATIVES:

- NCCER now official sponsor of the 2010 SkillsUSA Carpentry Competition
- NCCER supporting select construction craft assessments for the SkillsUSA Workforce Ready System

National Career Readiness Certificate

Communication
Business Writing
Listening
Reading for Information
Writing

Problem Solving
Applied Mathematics
Applied Technology
Locating Information
Observation

WorkKeys®

ACT®

Personal Skills
Performance
Talent
Fit

Interpersonal Skills
Teamwork

85% of ALL profiled occupations utilize these skills

Choose Construction Initiative (CCI)

NCCER has agreement with CURT & CWDC to lead the Workforce Development effort of CCI

THIS WILL INCLUDE:

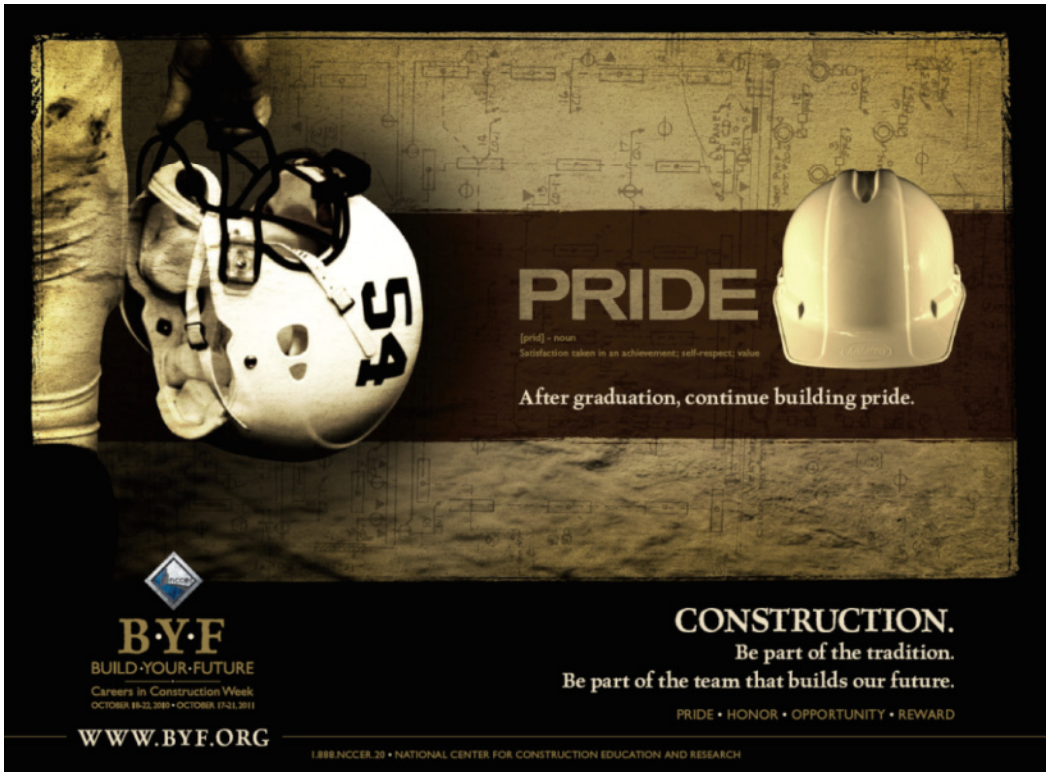
Recruitment, Image Enhancement, Retention, Training & Placement

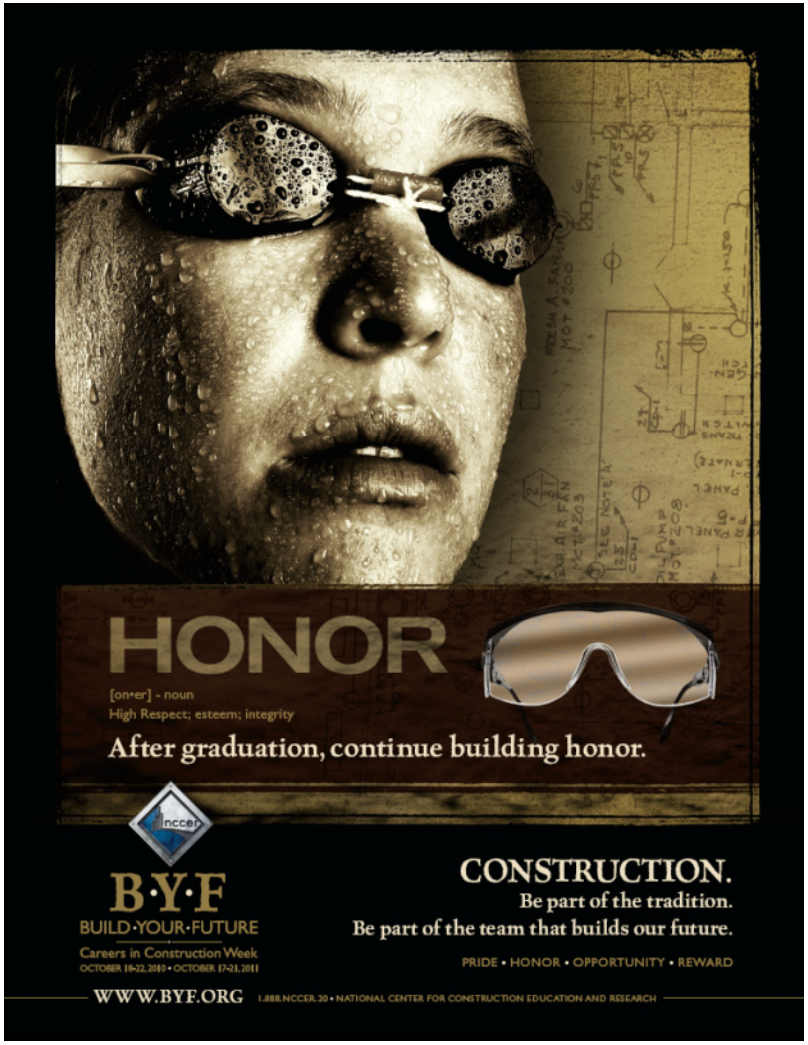
WHY THIS IS IMPORTANT:

- Workforce issues will escalate in the upturn!
- Grassroots is most effective. National resources & best practices implemented regionally & locally.

Build Your Future
Campaign October 18-22, 2010

B·Y·F
BUILD·YOUR·FUTURE
Careers in Construction Week
OCTOBER 18-22, 2010



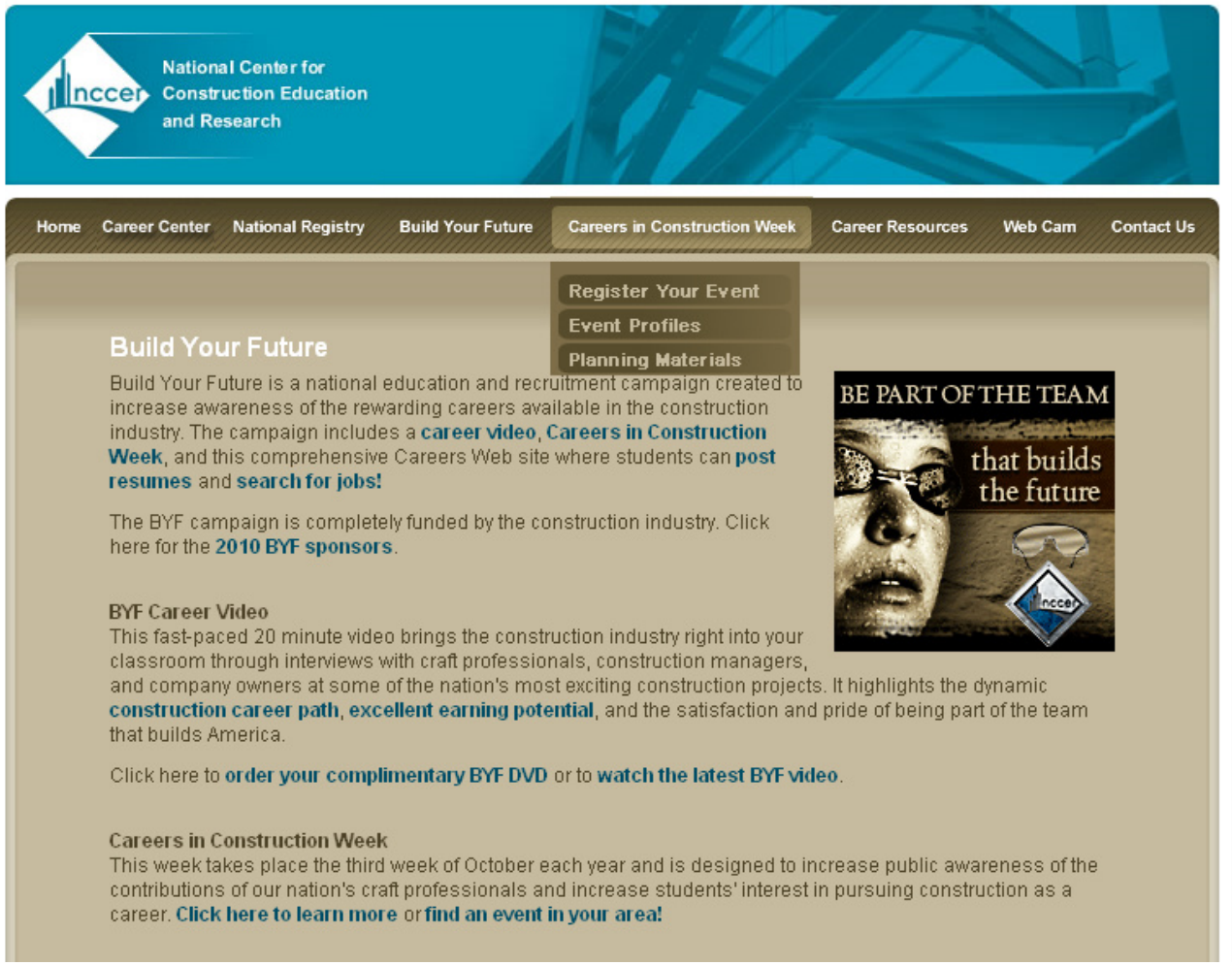


Visit www.byf.org or contact the NCCER Marketing Department at 888-622-3720 ext. 108

Careers in Construction Week

www.byf.org

- Register your event
- See other programs
- 2010 *Build Your Future* video premieres October 18th!

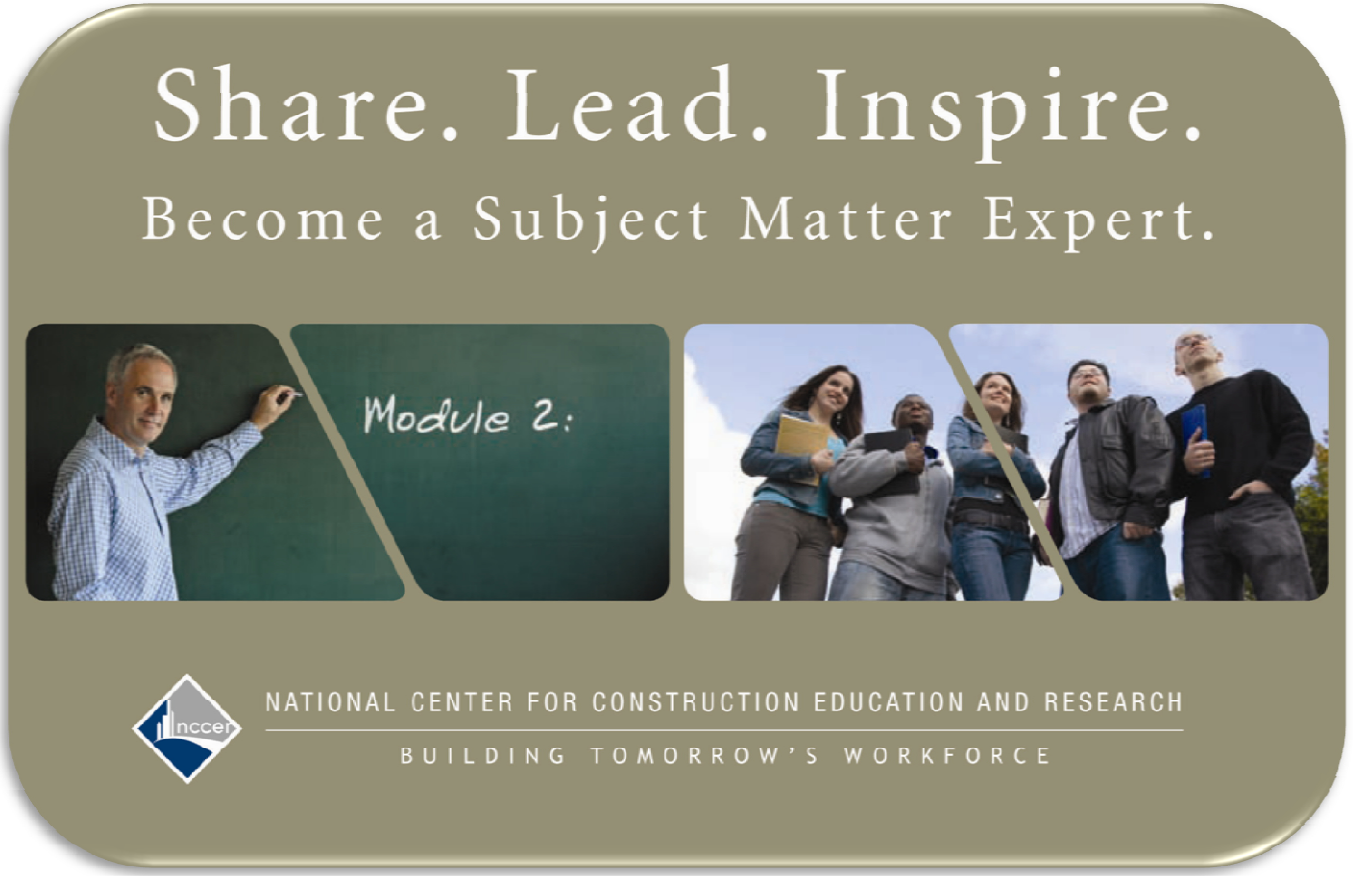


Standardized Curriculum

- Over 55 craft, pipeline, safety, and management titles, plus new titles in green building and energy.
- Competency-based
- Instructor-led
- Common instructional system design
  - DACUM
- Technical Review Committee
  - Subject Matter Experts (SMEs)

For more information, visit: www.nccer.org/catalog

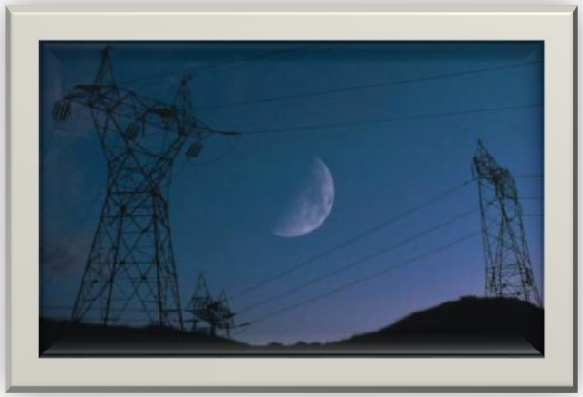
Industry-Driven Development



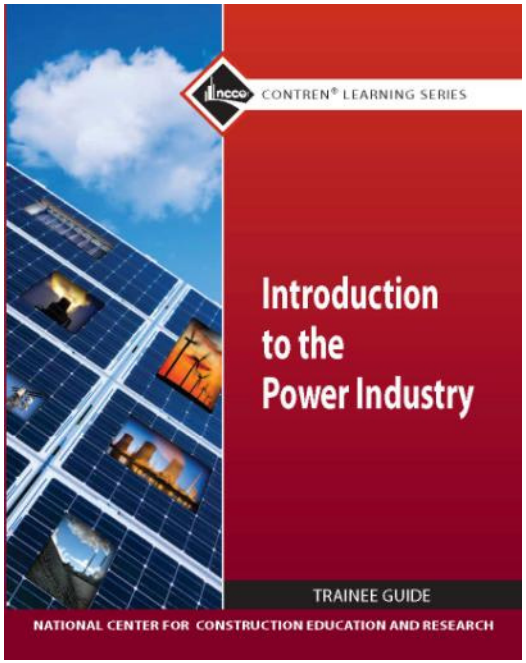
A team of volunteer SMEs are assembled to write, review & revise curriculum and assessments.

Opportunities Growing in Energy

- **Industrial construction** in the energy sector is expanding rapidly
- Energy providers need formal training for **maintenance** of their projects after completion



Power Titles



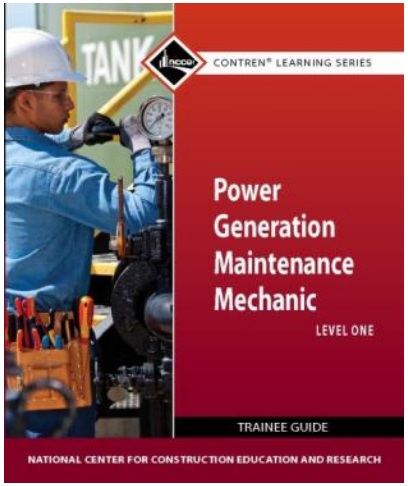
Power Generation Maintenance titles developed in partnership with *Progress Energy, Duke Energy, Southern Company, SCANA, Constellation Energy, TIC, Bechtel, Zachry Industrial, Cianbro, and Shaw.*

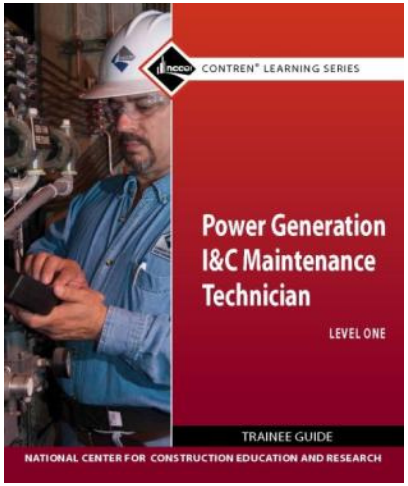
<u>Introduction to the Power Industry:</u>
Released, July, 2010

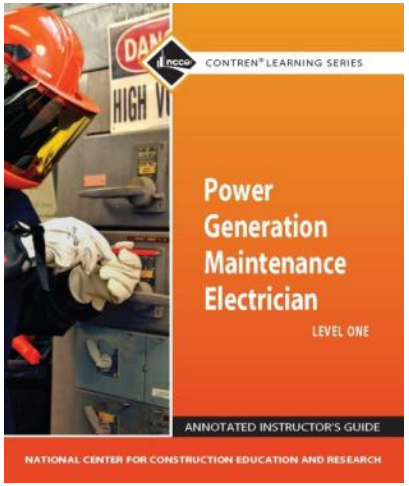
Introduction to the Power Industry, 12.5 Hours

1. Define energy and name its sources.
2. Identify the different methods of converting energy into electricity.
3. Explain how electricity is transmitted and distributed.
4. Describe the economics of power generation and distribution.
5. Describe the environmental impacts of producing and distributing electricity and methods used to minimize negative effects.
6. Identify safety considerations associated with the power industry.
7. Identify career opportunities and training requirements in the power industry.
8. Identify concerns that might affect the future of the power industry.

Power Generation Maintenance



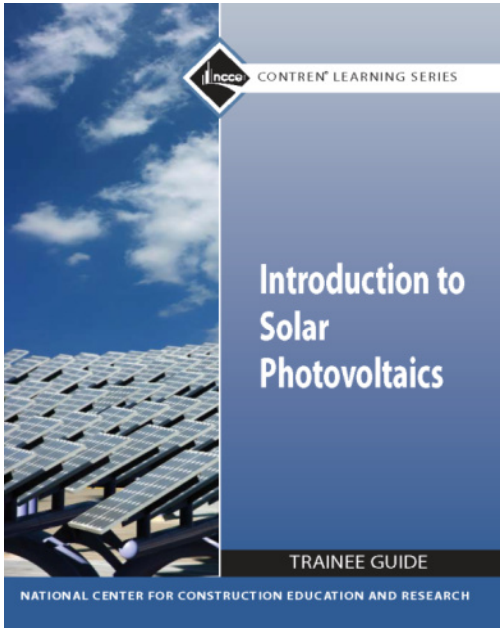




Coal-fired power plants employ 37.6% of power plant operations & maintenance workers in the U.S.

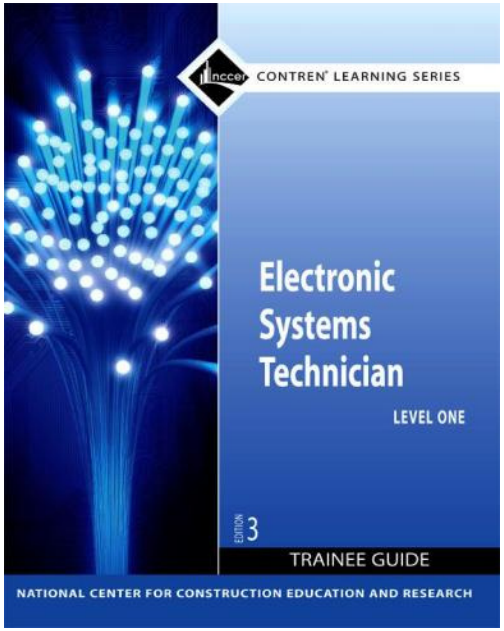
The average age of coal plant workers is 48. A 2006 study concluded that "a 2,000 MW coal-fired plant with about 200 to 250 employees will likely lose half its current plant staff in the next decade due to retirement, attrition and other similar issues."

Energy Programs



Introduction to Solar Photovoltaics

Supports NABCEP's Entry-Level Provider Program

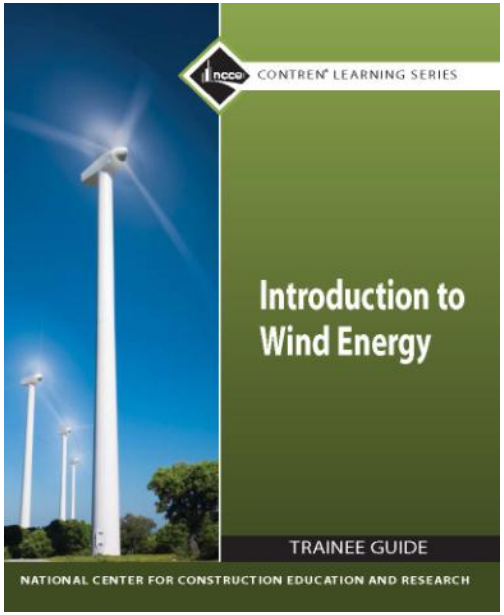


Electronic Systems Technician Level One

Updated to the Latest Technologies Supported by SBCA, DirectTV, Dish Network and IEC Chapters

Renewable Energy Generation

Wind Turbine Maintenance



Available 2nd Quarter, 2011
Based upon the American Wind Energy Association's (AWEA's) Core Skill Sets for Wind Turbine Service Technicians

At the end of 2009, the installed capacity of wind power in the United States was just over 35,000 megawatts (35 GW), making it the world leader ahead of Germany. Wind power accounts for about 2% of the electricity generated in the United States.

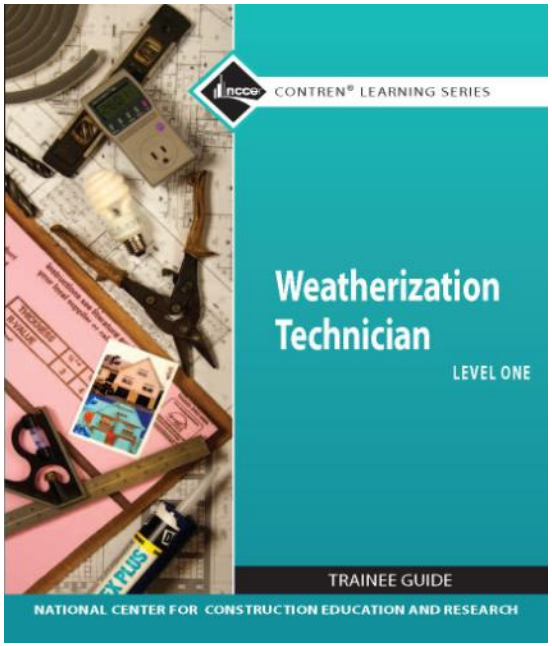
A large wind farm may consist of several hundred wind turbines with a ratio of one maintenance technician to 10 turbines

There is currently no standardized training for wind turbine maintenance technicians.

Weatherization

American Recovery & Reinvestment Act 2009 (ARRA)

- WAP receives $5 billion in stimulus money
  - 20% – approximately $1 billion – goes to training & technical assistance
  - State & local levels
  - All funds available for allocation until September, 2010



Home Star Energy Retrofit Act of 2010

'Cash for Caulkers': Incentive program separate from WAP funds

Passed in the House

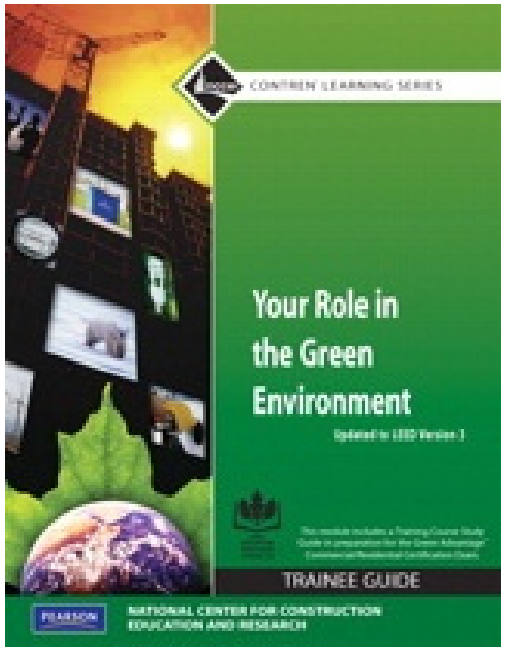
House must appropriate $6 billion: No funding to date

National Standards still under construction

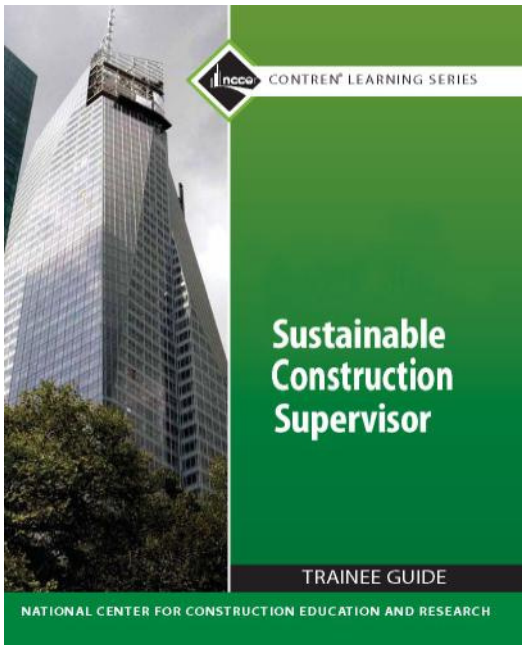
NCCER's Program

- **Fundamentals of Weatherization**
  - *Core* plus *Introduction to Weatherization*
  - In stock – August, 2010
- **Weatherization Technician, Level One**
  - Two existing mods plus two new mods
  - In stock – November, 2010
- **Weatherization Crew Chief, Level Two**
  - Nine existing mods plus one new mod
  - In stock – January, 2011
- **Building Auditor, Level Two**
  - Eight existing mods plus one new mod
  - In stock – January, 2011

Sustainability



"Green Labs" now available in *Contren® Connect*



Developed with Green Building Certification Institute, and the Myers Lawson School of Construction

Shipbuilding

- Building partnership & sponsorship opportunities with the **Gulf States Shipbuilders Consortium** and **National Shipbuilding Research Program**

GSSC
Gulf States Shipbuilders Consortium

Founding Companies and Organizations

Alabama Technology Network
Atlantic Marine
BENDER Shipbuilding & Repair Co., Inc.
Bollinger Shipyards, Inc.
greater new orleans inc. The Regional Economic Alliance
MEPOL
MEP Manufacturing Extension Partnership of Mississippi
NORTHROP GRUMMAN Defining the Future
VT Halter Marine A company of VT Systems

Maritime Welding Center in Mobile, AL

LCS-1
USS Freedom

In the Works

Electrical 2011 NEC Update
Levels 1 & 2 will release summer, 2011 and 3 & 4 in the fall

EST Levels 3 & 4
Level 3 will release in the spring, 2011 and Level 4 in the fall

Boilermaking 3 & 4
Level 3 will release in the spring, 2011 and Level 4 in the fall

Ironworking 2 & 3
Level 2 will release in the spring, 2011 and Level 3 in the fall

In the Works

Power Line Worker Level One
Level 1 will release summer, 2011

Power Line Distribution Worker Level Two
Level 2 will release fall, 2011

Power Line Transmission Worker Level Two
Level 2 will release fall, 2011

Power Substation Worker Level Two
Level 2 will release in the fall, 2011

Contren® Connect

CONTREN® CONNECT

KEY FEATURES

- Instructor Toolkit
- Online Lectures
- Video Presentations
- Personalization Tools
- Quizzes
- Active Figures
- Spanish Content

For more information, visit: www.contrenconnect.com

Online Training and Apprenticeship

The changes in apprenticeship in the Department of Labor

Office of Apprenticeship

guidelines allow for

correspondence &

self-study as part of the

144 hours for formal apprenticeship

SOURCE: www.dol.gov/dol/allcfr/Title_29/Part_29/29CFR29.5.htm

Instructor Resource Center

www.NCCERContrenIRC.com

Welcome to the Construction & Maintenance Resource Page.
Please choose your topic from the list below:

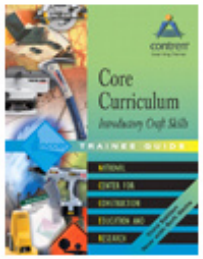
Use the drop down menu below to view individual subject areas in our online catalog.

Select...

What's New

The following exams have been updated since they were last printed. Download the

Core Curriculum,4th edition
Login



Core Curriculum,3rd edition
Login

Boilermaking
Login

Boilermaking 2nd edition
Login

Carpentry, 4th edition
Login

Cabinetmaking, 2nd edition
Login

Training Programs

Training Methods

Training Budget

Instructor Resources

- Marketing Your Program
- Continuing Education
- Challenges to Instruction
- Instructor Planning Tools
- Industry and Educational Partnerships
  - Local Workforce Education
  - Curriculum Adoption
  - Articulation with Other Educational Institutions
  - Building Community Partnerships

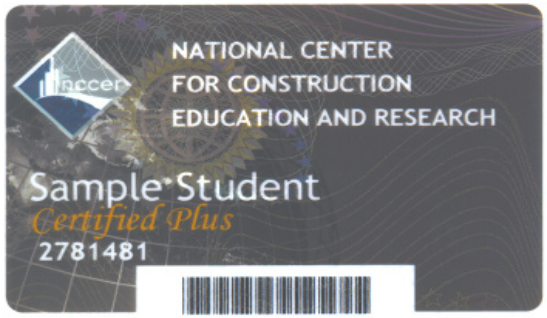
Best Practices

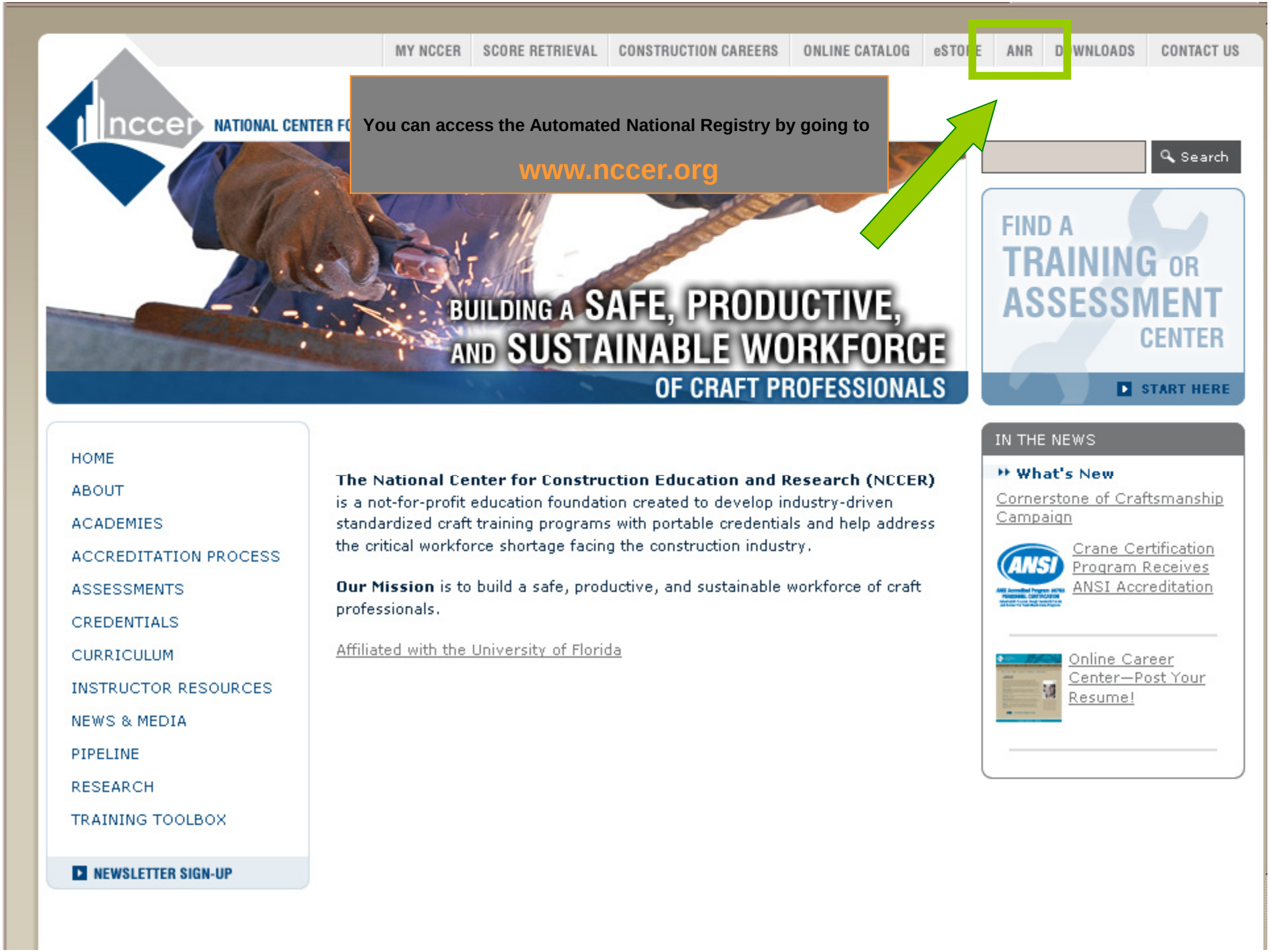
Industry and Educational Partnerships

A profound shift is taking place in the approach to craft training. Industry and education are partnering like never before to train a sustainable workforce and provide opportunities for all students. These partnerships are a critical factor to the success of achieving a skilled workforce. The educational and correctional institutions of this country have an enormous and still largely untapped resource of talent that will serve the industry well. The owners, contractors, and other industry-based stakeholders who recognize this have reached out to education and created the vital link between schools and industry that make Career and Technical Education (CTE) a vital force in creating the next generation of professionals. When industry partners with the educational sector, training is focused toward real industry competencies, employers have access to a stable workforce, and more immediate opportunities are created for students.

Industry-Recognized Credentials

- **Training Completion** (certificate printed after completion of a level in the *Contren*® curriculum, which is achieved by passing every module's written and performance tests)




MY NCCER
SCORE RETRIEVAL
CONSTRUCTION CAREERS
ONLINE CATALOG
ANR
CONTACT US
You can access the Automated National Registry by going to
www.nccer.org
Search
FIND A TRAINING OR ASSESSMENT CENTER
START HERE
BUILDING A SAFE, PRODUCTIVE, AND SUSTAINABLE WORKFORCE
OF CRAFT PROFESSIONALS
HOME
ABOUT
ACADEMIES
ACCREDITATION PROCESS
ASSESSMENTS
CREDENTIALS
CURRICULUM
INSTRUCTOR RESOURCES
NEWS & MEDIA
PIPELINE
RESEARCH
TRAINING TOOLBOX
NEWSLETTER SIGN-UP
The National Center for Construction Education and Research (NCCER) is a not-for-profit education foundation created to develop industry-driven standardized craft training programs with portable credentials and help address the critical workforce shortage facing the construction industry.
Our Mission is to build a safe, productive, and sustainable workforce of craft professionals.
Affiliated with the University of Florida
IN THE NEWS
What's New
Cornerstone of Craftsmanship Campaign
Crane Certification Program Receives ANSI Accreditation
Online Career Center—Post Your Resume!

Automated National Registry

Frequently Asked Questions

Training Unit Courses/Modules

Module No:

Module Name: Search

Import Courses/Modules from NCCER

Module No.	Module Name	Remove
00101-00	Basic Safety	
00101-04	Basic Safety	
00102-04	Introduction to Construction Math	
00103-04	Introduction to Hand Tools	
00104-04	Introduction to Power	
00105-04	Introduction to Bluep	
00106-00	Basic Rigging	
00106-04	Basic Rigging	
00107-04	Basic Communication	
00108-04	Basic Employability S	
02101-05	Introduction to the Pl Profession	
02201-05	Plumbing Math	
02202-05	Reading Commercial Drawings	
02203-05	Hangers, Supports, Structural Penetrations, and Fire Stopping	
03302-02	Troubleshooting Gas Heating	
03303-02	Troubleshooting Electric Heating	
03304-02	Troubleshooting Oil Heating	
03305-02	Troubleshooting Cooling	

This link allows you access to all of the NCCER Contren Learning Series Modules. You can add or remove modules as needed.

NCCER Modules/Courses

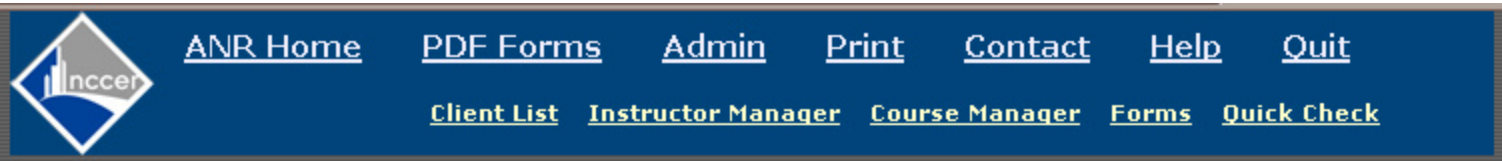
Previous

Module No: 27 Module Name: Search

Note: The full list of all possible NCCER modules is very long, so by default this page will only show a portion of the records. Use the Search option to locate specific modules or crafts by number or name.

Module No.	Module Name	Import
27101-01	*Orientation to the Trade*	*Already Imported*
27101-06	*Orientation to the Trade*	*Already Imported*
27102-01	Wood Building Materials Fasteners and Adhesives	Import
27102-06	*Building Materials, Fasteners and Adhesives*	*Already Imported*
27103-01	Hand and Power Tools	Import
27103-06	*Hand and Power Tools*	*Already Imported*
27104-01	Floor Systems	Import
27104-06	*Reading Plans and Elevations*	*Already Imported*
27105-01	Wall and Ceiling Framing	Import
27105-06	*Floor Systems*	*Already Imported*
27106-01	Roof Framing	Import
27106-06	*Wall and Ceiling Framing*	*Already Imported*
27107-01	Windows and Exterior Doors	
27107-06	*Roof Framing*	
27108-06	*Introduction to Concrete and Reinforcing Materials*	
27109-06	*Windows and Exterior Doors*	
27110-06	*Basic Stair Layout*	
27201	Forming	Import
27201-01	Reading Plans and Elevations	Import
27201-07	*Commercial Drawings*	*Already Imported*
27202-01	Site Layout One - Distance Measurement and Leveling	Import
27202-07	*Roofing Applications*	*Already Imported*
27203-01	Introduction to Concrete and Reinforcing Materials	Import

Click on 'Import' to import only the modules you desire.

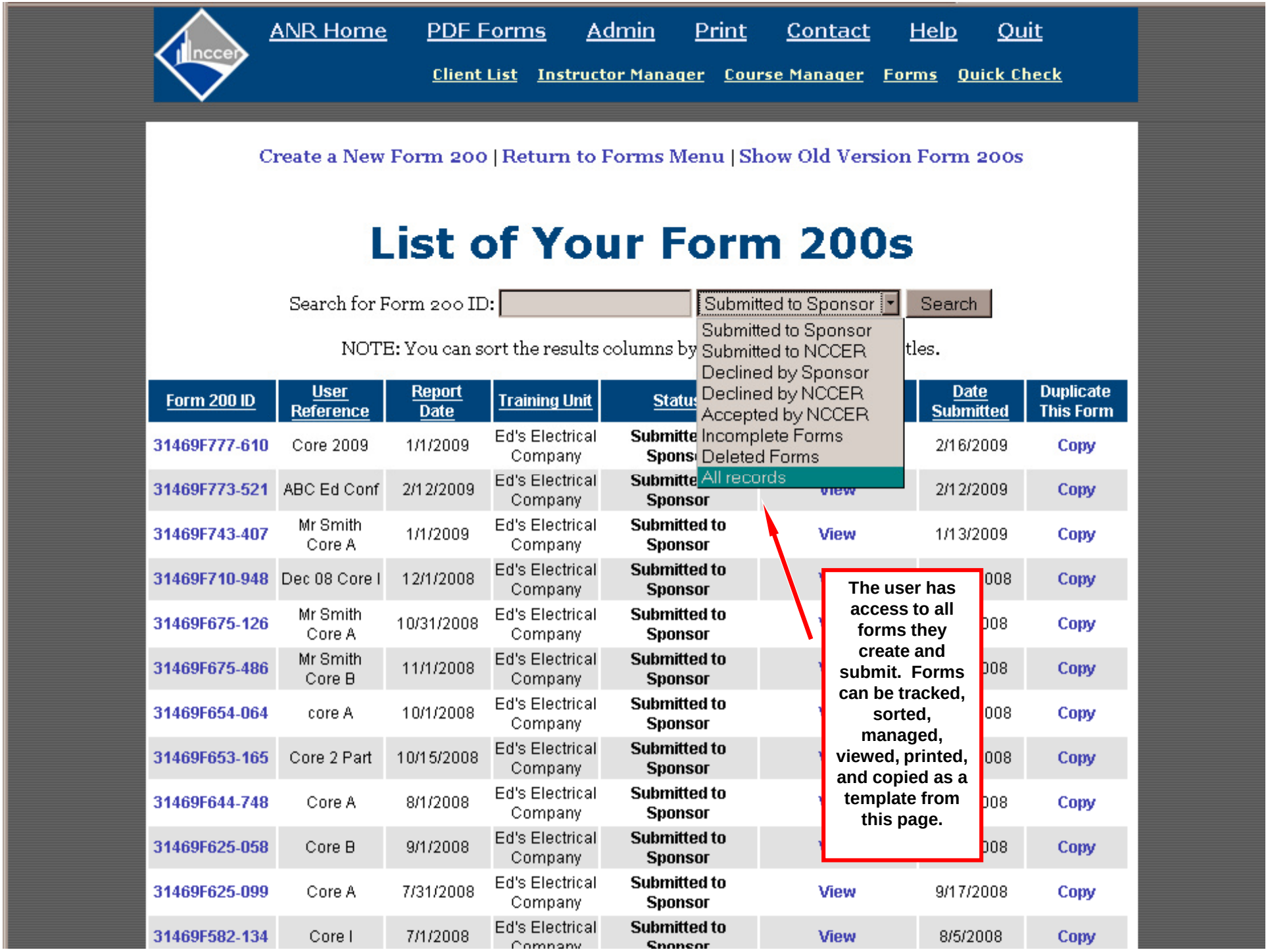


Forms Menu

The following functions are available from this module:

- Form 101 - Registration of Craft Instructor Certification.
- Form 200 - NCCER Craft Training Report Form.
- Form PV - Create or view Form PV's

This screen allows the user to create their Form 200's for submittal to their sponsor for viewing and approval.


ANR Home
PDF Forms
Admin
Print
Contact
Help
Quit
Client List
Instructor Manager
Course Manager
Forms
Quick Check
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Training Unit
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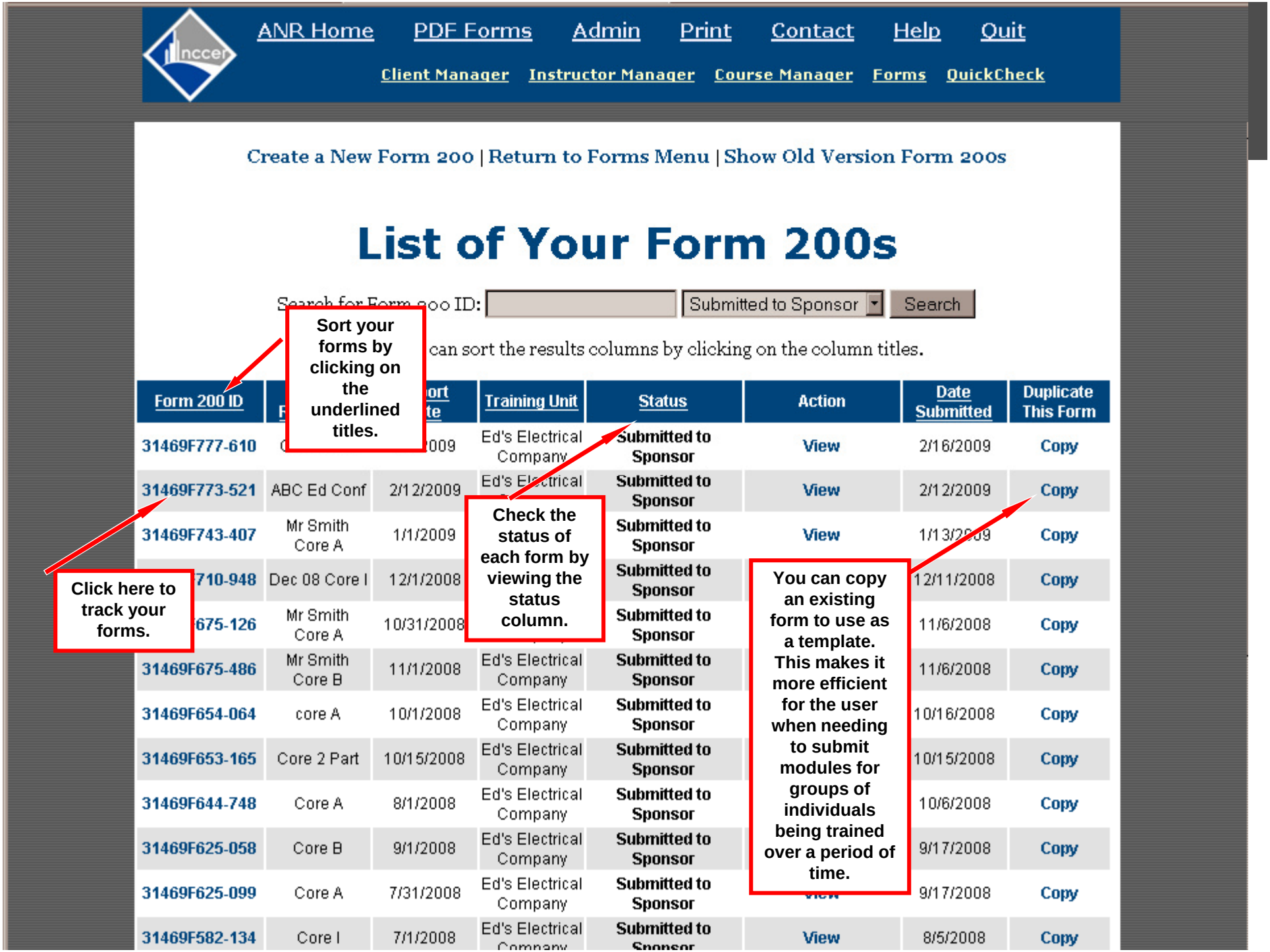
The user has access to all forms they create and submit. Forms can be tracked, sorted, managed, viewed, printed, and copied as a template from this page.


ANR Home
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Status
Action
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Ed's Electrical Company
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ABC Ed Conf
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Mr Smith Core A
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Click here to track your forms.
Check the status of each form by viewing the status column.
You can copy an existing form to use as a template. This makes it more efficient for the user when needing to submit modules for groups of individuals being trained over a period of time.

ANR Training

NCCER Registry Contacts:

Rachel Melton, Manager

rmelton@nccer.org

888-622-3720 ext. 116

Kristina Ward, Coordinator

kward@nccer.org

888-622-3720 ext. 118

NOW PAYING PREMIUM TO JOURNEYMEN AND SUPERVISORS WHO HAVE TAKEN AND PASSED NCCER WRITTEN ASSESSMENT AND/OR PERFORMANCE VERIFICATION IN RELEVANT CRAFT THAT EMPLOYEE IS HIRED FOR.

- Base Scale For Specific Site

NOW HIRING AT ALL LOCATIONS:

- **FOREMAN** • **GENERAL FOREMAN**
- **SUPERINTENDENTS**

SHUTDOWN

Ahoskie, NC • Journeymen Pipe Fitters & Combination Pipe Welders
• **9/27/10 - 10/02/10**

NEW CONSTRUCTION

Columbus, MS • Journeymen Pipe Fitters & Pipe Welders
• Paying: $22.00/hr • Working 40/Hrs per Week

MILL MAINTENANCE CONTRACTS

Decatur, AL • **Journeymen Pipe Fitters & Pipe Welders • $22.00/hr*** } * Plus Possible Performance Bonus

Blytheville, AR • Millwrights, Journeymen Pipe Fitters, Pipe Welders, Structural Fitters & Structural Welders • $22.00 /hr**

Columbus, MS • Journeymen Pipe Fitters & Pipe Welders • $22.00 /hr*

Crawfordsville, IN • Journeymen Pipe Fitters & Pipe Welders • $21.00 /hr*

El Dorado, AR • Journeymen Pipe Fitters & Pipe Welders • $19.00 /hr*

Ahoskie, NC • Journeymen Pipe Fitters & Pipe Welders • $20.00 /hr*

Ghent, KY • Millwrights, Journeymen Pipe Fitters & Pipe Welders • $20.00 /hr*

For More Information Call Our Job Hotline

* Add $1.00 per hour to base scale for specific site if employee has passed NCCER Written Assessment or NCCER Performance Verification - Add $2.00 per hour to base scale if employee has passed NCCER Written Assessment AND NCCER Performance Verification.

** Add $1.50 per hour to base scale for Blytheville site if employee has passed NCCER Written Assessment or NCCER Performance Verification - Add $3.00/hr to base scale if employee has passed NCCER Written Assessment AND NCCER Performance Verification.

Hiring for the Following Experienced, Skilled Crafts:

Journeyman:

- **Pipefitters -** Must be able to Read ISO's, Ortho's & PID's
- **Structural Ironworkers**
- **Riggers**

NCCER Certification Preferred, or Must agree to take NCCER Assessment for the Above Crafts.

- **Pipe Welders -** (Combo) Heli-Arc, Root Hot Pass & Stick Rod Filler & Cap
- **Structural Welders -** Flux and Stick
- **Crane Operators -** Hydraulic and Conventional, NCCER or NCCCO Certification Required

• COMPETITIVE PAY • OVERTIME • SAFETY INCENTIVES • GREAT BENEFITS

• DIRECT DEPOSIT • NCCER CERTIFICATION UPLIFTS

Mandatory Pre-Hire Screening and Assessments Required

NEW CONSTRUCTION TAKING APPLICATIONS FOR:

Texas: ALL CRAFTS

Port Arthur, TX: ALL CRAFTS

Drug Screen, NCCER Skills Assessment, and Tools Required

NOW HIRING FOR VARIOUS LOCATIONS THROUGHOUT THE TEXAS & LOUISIANA GULF COAST AREAS!!

Travel May Be Required for These Positions

Project Superintendents • Project Foremen • Tank Builders • Iron Workers

Combo Welders (Pipe & Plate) • NCCER Riggers

Combination Fire Watch / Hole Watch

Positions Below Are For Our Houston, TX Facility

CNC Burner Operators • 6G X-Ray Welders

Bakersfield Area, CA

OIL FIELD & PIPELINE PROJECT

- Working 40-50/Hrs Per Week
- Duration: Short & Long Term

Crafts Needed:

Rig Welders (Downhill Pipeline)
Millwright Mechanics
Pipefitters (Layout/Fab)
Crane Ops (NCCCO)
Journeyman Electricians
Roustabouts

Bellingham, WA Area

NEW CONSTRUCTION

- Working 40-50/Hrs Per Week
- Duration: 1 Year

Crafts Needed:

Pipe Welders (Combo)
Pipefitters (Layout/Fab)
Crane Ops (NCCCO)
Iron Workers (Connect/Bolt Up)

Los Angeles Basin, CA

REFINERY, MARINE TERMINAL & PIPELINE MAINTENANCE

- Working 40/Hrs Per Week
- Duration: Long Term
- Pipeline Work in Various Locations

Crafts Needed:

Rig Welder (Downhill Pipeline)
Pipefitters (Layout)
Pipewelders (Combo)
Ironworkers • Riggers
Instrument Fitters
Instrument Techs
Maintenance Electricians
Supervisors (All Crafts)
Safety Supervisors

All Applicants Must Pass:

Drug / Alcohol Test • Background Check • E-Varify

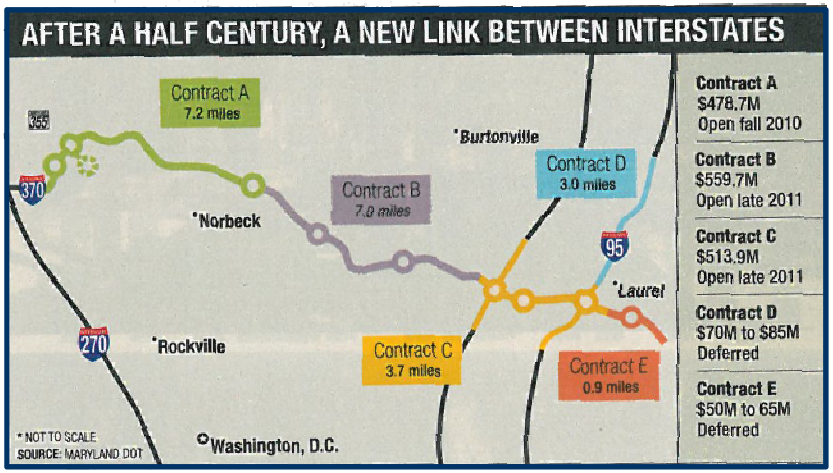
Certifications May Be Required By Area

TWIC • NCCER • RSO

Partners in Craft Training with ABC & NCCER

ABC Associated Builders and Contractors, Inc.

nccer



SOURCE: Engineering News-Record. (09/20/2010)

THE CONSTRUCTION WEEKLY
September 20, 2010 ▪ enr.com
The McGraw-Hill Companies
ENR
Engineering News-Record

CALIF. REVISITS EQUIPMENT EMISSION REGS

DEADLY GAS BLAST TRIGGERS PROBE

N.J. HALTS TRANS-HUDSON TUNNEL WORK

$575 MILLION FOR CARBON-CAPTURE PROJECTS

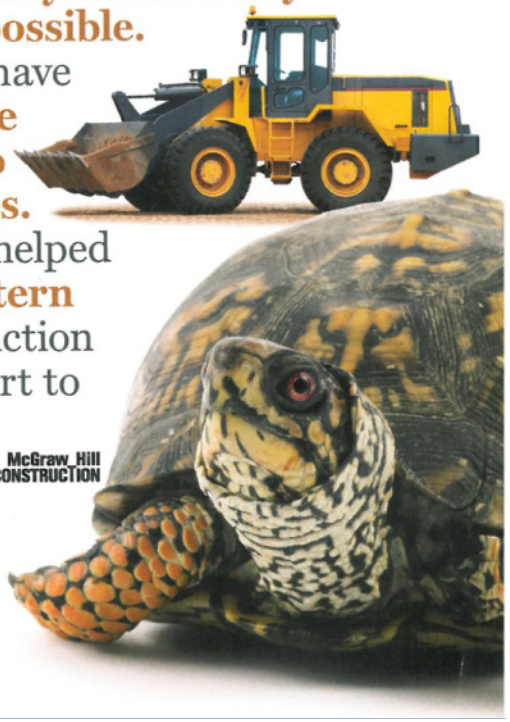
MARYLAND'S INTERCOUNTY CONNECTOR EXPANSION

Keeping It Clean

Every section of the Maryland State Highway Administration's $2.6-billion InterCounty Connector project prioritizes the goal of **making construction as environmentally and socially responsible as possible.**

NEXT-GENERATION TRANSPORTATION
PART THREE OF SERIES

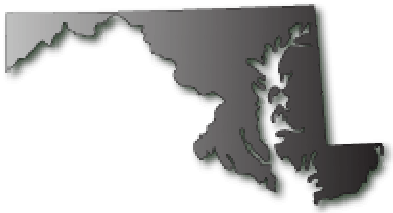
Agency officials have dedicated **$370 million, more than 15% of the total cost, to preserving natural resources.** The design-build teams have helped **relocate more than 900 eastern box turtles** out of the construction zones, for example, in the effort to "tread lightly on the land."



McGraw-Hill CONSTRUCTION

Maryland Outlook

Reed Construction Data



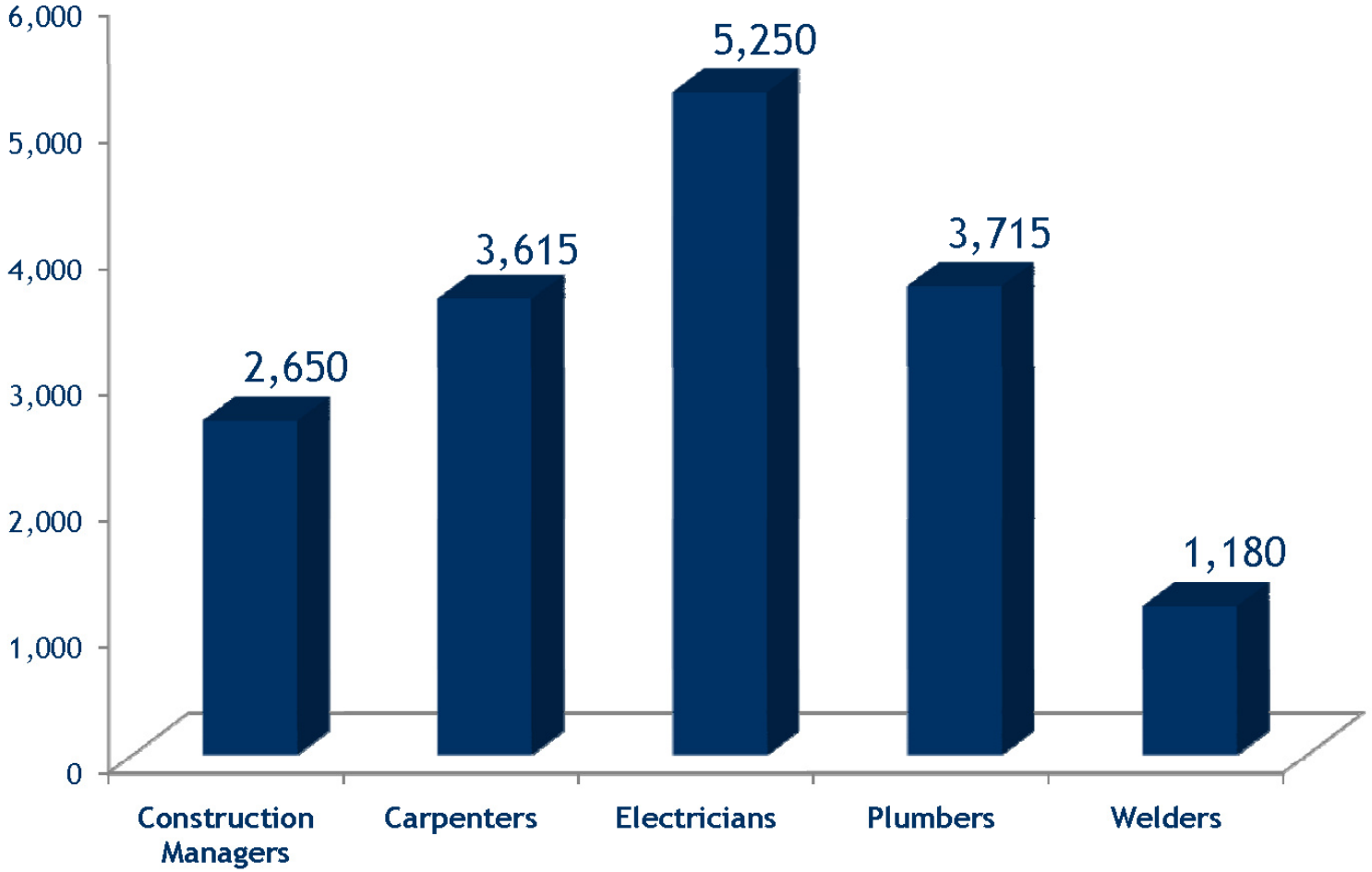
COMMERCIAL	
Pre-Bid Phase:	$39.4 B
Bid Phase:	$214.3 M
Post-Bid Phase:	$62.6 B

CIVIL	
Pre-Bid Phase:	$2.1 B
Bid Phase:	$130 M
Post-Bid Phase:	$10.2 B

SOURCE: Reed Construction Data. Website. (10/13/2010)

Maryland Occupational Projections

TOTAL OPENINGS 2008-2018



SOURCE: Maryland Department of Labor, Licensing and Regulation. Office of Workforce Information and Performance. (July 2010)

National Center for Construction Education and Research

THANK YOU

Questions?

NCCER
3600 NW 43rd Street, Building G, Gainesville, FL 32606
888.622.3720
www.nccer.org