

**EXECUTIVE SUMMARY****Title:** Construction Education Programs Certification and Credentials**Type of Executive Summary:**

Action       Action on First Reading       Discussion       Information

**Policy Implications:**

Constitution \_\_\_\_\_  
 General Statute # \_\_\_\_\_  
 SBE Policy # \_\_\_\_\_  
 SBE Policy Amendment  
 SBE Policy (New)  
 APA # \_\_\_\_\_  
 APA Amendment  
 APA (New)  
 Other \_\_\_\_\_

**Presenter(s):** Ms. Angela H. Quick (Deputy Chief Academic Officer, Curriculum, Instruction, Technology and Accountability Services), Ms. Rebecca Payne (Director, Career and Technical Education) and Mr. David Wehbie (Section Chief, Industrial Technology and Human Services)

**Description:**

This new policy is proposed to ensure that construction education programs (carpentry, electrical trades and masonry) offered in North Carolina public schools provide students with skills and knowledge that meet or exceed industry standards. Existing NCPDI program requirements for curriculum, tools, equipment, and facilities, are aligned with NCCER standards. This alignment helps to ensure a minimal impact for schools. Results of the readiness survey will be provided to SBE members prior to the June meeting. When a program is National Center for Construction Education Research (NCCER) certified, participating students will graduate with industry-developed skills and knowledge that will prepare them for further education and employment. The NCCER program leads to various craft (trade) certifications and credentials. Students also can earn community college credits while in high school. This national certification is the only certification for the construction trades. Teacher and program certification will occur during the 2009-2010 school year. Teachers will begin assessing and registering students in the national registry August 2010.

**Resources:**

Perkins/Federal, State

**Input Process:**

More than 12 meetings with stakeholders, including Career and Technical Education directors, teachers and school administrators, have taken place over the past two years. Presentations have been made to local administrations and business representatives to provide input and gain consensus. Partnerships have been formed and strengthened to support the effort to deliver uniform and consistent curriculum that meets industry standards and provides industry recognized credentials for students in North Carolina.

**Stakeholders:**

Students, teachers, Career and Technical Education local directors, local administration, business and industry representatives, industry associations, community colleges, and universities

**Timeline For Action:**

This item was submitted for Discussion at the April 2009 State Board meeting and Action at the May meeting. It is returned again for Discussion at the June meeting.

**Recommendations:**

It is recommended that the State Board of Education approve the policy that requires construction education programs be NCCER certified so that students can earn the credential.

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Audiovisual equipment requested for the presentation:

- Data Projector/Video (Videotape/DVD and/or Computer Data, Internet, Presentations-PowerPoint preferred)

Specify: \_\_\_\_\_

- Audio Requirements (computer or other, except for PA system which is provided)

Specify: \_\_\_\_\_

- Document Camera (for transparencies or paper documents – white paper preferred)

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Motion By: \_\_\_\_\_

Seconded By: \_\_\_\_\_

Vote: Yes \_\_\_\_\_ No \_\_\_\_\_

Abstain \_\_\_\_\_

Approved \_\_\_\_\_ Disapproved \_\_\_\_\_

Postponed \_\_\_\_\_ Revised \_\_\_\_\_

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\*Person responsible for SBE agenda materials and SBE policy updates: Chanda Pickett, 919-807-3889

**NORTH CAROLINA STATE BOARD OF EDUCATION  
Policy Manual**

**Policy Identification**

**Priority:** High Student Performance

**Category:** Standard Course of Study

**Policy ID Number:** New Policy

**Policy Title:** Construction Education Program Certification and Credentials

**Current Policy Date:**

**Other Historical Information:** This parallels HSP-F-014, Policy Delineating Automotive Service Technology Credentials, 01/08/2004

**Statutory Reference:**

**Administrative Procedures Act (APA) Reference Number and Category:**

**\*\*\* Begin Policy \*\*\* (Do not tamper with this line)**

By August 1, 2010 any Construction Education Program (carpentry, electrical trades, and masonry) receiving Career and Technical state or federal monies must be National Center for Construction Education Research (NCCER) certified. Requirements for NCCER certification include the following components:

- (a) Construction Programs must be certified by the NCCER/NCDPI as Accredited Training and Education Facilities (ATEF). Requirements for program certification include criteria outlined by the following standards:
  - 1. Organization and Planning
  - 2. Curriculum
  - 3. Instructor
  - 4. Student
  - 5. Instructional Facilities and Services
  - 6. Safety
  - 7. Industry Relations
  - 8. Leadership

(b) In addition to NCDPI licensure requirements, instructors must successfully complete the Instructor Certification Training Program (ICTP) and be certified as a Craft Instructor in their field. To qualify for this certification an individual must be:

1. Journeyman level in their trade - or
2. Hold an associate degree in their trade with documented work experience - or
3. Hold a Bachelor degree in their trade
4. Licensed in his/her field through NCDPI
5. Hold the 10 hour OSHA safety training certification

(c) Students must be entered into the NCCER national registry. They will receive certifications and credentials upon successful completion of curriculum.

1. Students must achieve a score of 70% on written assessment administered by a certified instructor in a secured manner.
2. Students must demonstrate competence on required performance task (this is a pass/fail assessment).

## Construction Education Program Certification and Credentials Program

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**Need** The Carl D. Perkins Career and Technical Education Act of 2006 supports and directs states to assist students to enter programs which provide opportunities to earn industry credentials. The attainment of credentials will help ensure that students graduate from high school globally competitive for work and postsecondary education and prepared for life in the 21st Century.

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**NCCER Program** To provide industry credentials for carpentry, electrical trades, and masonry students, North Carolina is supporting the use of the National Center for Construction Education Research (NCCER) credential program. The components of this program include: Accredited Training and Education Facility (ATEF), Instructor Certification Training Program (ICTP), and student skill certification of skill attainment. This provides students with industry-recognized credentials that are maintained through a national registry.

By using NCCER credentialing for construction programs, curriculum can be offered in a consistent and uniform manner statewide that will allow students to receive industry recognized certifications and credentials upon successful completion. These valuable industry credentials benefit students as they seek further education and build their careers. The recognized portability of the NCCER credentials enhance employment potential and supporting employers offer a pay differential for those who are credentialed.

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**Assessment** The NCCER curriculum is modular. After completion of a module, students take a secure/proctored written assessment. In addition to written assessments, students also are required to pass the performance assessment for each module. The required teacher training provides the knowledge and process necessary to administer the written assessments and how to utilize rubrics for assessing performance. Rubrics for each performance task outline criteria necessary to obtain competence. Using the rubric, teachers score the performance and results are entered and submitted electronically through NCDPI to NCCER. This performance data is also submitted through the Career and Technical Education Local Planning and Performance System for Perkins accountability.

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**Cost** The current blueprints for construction programs in NC have been correlated with the NCCER curriculum for many years. Therefore, tool and equipment costs per school will be minimal. The cost to certify a teacher is approximately \$110. Teacher certification remains current provided the teacher conducts assessment and registers students yearly. Schools will also need to purchase the NCCER instructor materials at a cost of \$190.00.

School (program) certification is \$50. This requires a self-assessment and audit by the local CTE director to ensure that the facility meets minimum tool, equipment and facility requirements. Most programs will need to bring their classrooms and labs up to meet safety standards and requirements. This means cleaning, organizing and storage as well as installing proper signage and markings for work areas and safety zones. Program certification is a one time process and fee provided yearly audits do not have exceptions.

The expected total cost for implementing the NCCER program for each school with existing construction programs is \$350 plus the cost of the items needed to meet safety requirements.

**Input** Twenty nine presentations to Career and Technical Education Directors and teachers have occurred at state-wide and regional meetings and conferences. Information was disseminated and comments were collected concerning the NCCER curriculum/credentialing process. These information and input sessions have occurred during the past two years. Surveys indicate that both directors and teachers welcome and support this change.

Presentations and Information Sessions		<b>Number of Sessions</b>
2007	CTE Summer Conference	7
	Fall CTE Directors' Conference	1
	Fall Trade and Industrial Teachers' Meeting	5
	Regional Presentations	4
2008	Spring CTE Directors and Instructional Management Conference – 1 session	
	CTE Summer Conference	5
	Fall CTE Directors' Conference	1
	Fall Trade and Industrial Teachers' Meeting	1
	Regional Presentations	4
		<u>29 Sessions Total</u>

**Teacher ICTP Certification** The teacher certification class, Instructor Certification Training Program (ICTP), is offered regionally by NCDPI utilizing NCCER certified Master Trainers. NCDPI held a master trainer certification class in September 2008, certifying 25 individuals, including teachers and administrators and 8 industry representatives, to create a network across the state to provide the Instructor Certification Training Program (ICTP) regionally. ICTP will be offered during the CTE summer conference each year and again regionally in August or September.

Approximately half of the 267 construction teachers (Carpentry, Electrical Trades, and Masonry) in North Carolina will be certified by the end of March, 2009.

**Industry Support** Carolinas Association for General Contractors (CAGC)  
 Associated Builders and Contractors of the Carolinas (ABCC)  
 North Carolina Homebuilders Association (NCHBA)  
 North Carolina Masonry Contractors Association (NCMCA)  
 North Carolina Association of Electrical Contractors (NCAEC)  
 Carolinas Electrical Contractors Association (CECA)  
 Progress Energy  
 Duke Energy  
 Shaw  
 Watson Electric  
 Starr Electric  
 Wayne Brothers Inc.