

Board of Education Agenda Item

Item: E.

Date: January 14, 2010

Topic: First Review of Revisions of Industry, Professional, or Trade Association Certification Examinations and Occupational Competency Assessments to Meet the Requirements for the Board of Education's Career and Technical Education and Advanced Mathematics and Technology Seals and the Student-Selected Verified Credit.

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Origin:

Topic presented for information only (no board action required)

Board review required by

State or federal law or regulation

Board of Education regulation

Other:

Action requested at this meeting Action requested at future meeting:

Previous Review/Action:

No previous board review/action

Previous review/action

date September 28, 2000; April 26, 2001; April 24 & 25, 2002; May 28, 2003; June 25, 2003; February 25, 2004; February 23, 2005; November 30, 2005, November 29, 2006, January 10, 2008, and January 15, 2009.

action Additions and/or deletions were made to the list of board-approved examinations, assessments, and licensures.

Background Information:

The *Regulations Establishing Standards for Accrediting Public Schools in Virginia*, requirements for graduation 8 VAC 20-131-50.I.3, provide students who demonstrate academic excellence and/or outstanding achievement the opportunity to earn the Board of Education's Career and Technical Education Seal.

8 VAC 20-131-50.I.3 - "The Board of Education's Career and Technical Education Seal will be awarded to students who earn a Standard or Advanced Studies Diploma and complete a prescribed sequence of courses in a career and technical education concentration or specialization that they choose and maintain a "B" or better average in those courses; or (i) pass an examination or occupational competency assessment in a career and technical education concentration or specialization that confers certification or an occupational competency credential from a recognized industry, trade or professional association or (ii) acquire a professional license in that career and technical education field from the Commonwealth of Virginia. The Board shall approve all professional licenses and examinations used to satisfy these requirements."

The *Regulations Establishing Standards for Accrediting Public Schools in Virginia*, requirements for graduation 8 VAC 20-131-50.I.4, provide students who demonstrate academic excellence and/or outstanding achievement the opportunity to earn the Board of Education’s Seal of Advanced Mathematics and Technology.

8 VAC 20-131-50.I.4 – “The Board of Education’s Seal of Advanced Mathematics and Technology will be awarded to students who earn either a Standard or Advanced Studies Diploma and (i) satisfy all of the mathematics requirements for the Advanced Studies Diploma (four units of credit including Algebra II; two verified units of credit) with a “B” average or better, and (ii) either (a) pass an examination in a career and technical education field that confers certification from a recognized industry, or trade or professional association, (b) acquire a professional license in a career and technical education field from the Commonwealth of Virginia, or (c) pass an examination approved by the Board that confers college-level credit in a technology or computer science area. The Board of Education shall approve all professional licenses and examinations used to satisfy these requirements.”

The *Regulations Establishing Standards for Accrediting Public Schools in Virginia* make the following provisions relative to students earning verified units of credit:

8 VAC 20-131-110.C Standard and verified units of credit

The Board may from time to time approve additional tests for the purpose of awarding verified credit. Such additional tests, which enable students to earn verified units of credit, must, at a minimum, meet the following criteria:

1. The test must be standardized and graded independently of the school or school division in which the test is given;
2. The test must be knowledge-based;
3. The test must be administered on a multi-state or international basis, or administered as part of another state’s accountability assessment program; and
4. To be counted in a specific academic area, the test must measure content that incorporates or exceeds the SOL content in the course for which verified credit is given.

8 VAC 20-131-50.B.2 (Footnotes 5 and 6 and C., Footnote 5) Requirements for graduation

Verified Credits Required

Student Selected Test ⁵

⁵ A student may utilize additional assessments for earning verified credit in computer science, technology, career and technical education, or other areas as prescribed by the Board in 8VAC 20-131-110.

⁶Students who complete a career and technical education program sequence and pass an examination or occupational competency assessment in a career and technical education field that confers certification or an occupational competency credential from a recognized industry, or trade or professional association or acquires a professional license in a career and technical education field from the Commonwealth of Virginia may substitute the certification, competency credential, or license for (i) the student selected verified credit and (ii) either a science or history and social science verified credit when the certification, license, or credential confers more than one verified credit. The examination or occupational competency assessment must be approved by the Board of Education as an additional test to verify student achievement.

Summary of Major Elements

The attached list of industry, professional, trade association certifications, or occupational competency assessments meets the Board's requirements as noted in 8 VAC 20-131-50.I.3, 8 VAC 20-131-50.I.4, 8 VAC 20-131-110, and 8 VAC 20-131-50.B.4 (Footnotes 5 and 6 and C., Footnote 5) for the Career and Technical Education Seal, the Seal of Advanced Mathematics and Technology, and student-selected verified credit.

The 47 additional industry certification examinations and occupational competency assessments in bold print have been identified as meeting criteria to satisfy requirements for the Career and Technical Education Seal and student-selected verified credit. One of these examinations has been identified as meeting criteria to satisfy requirements for the Advanced Mathematics and Technology Seal. A list of previously approved examinations and recommended additional examinations is attached.

Industry, professional, and trade association certifications are continually being revised or discontinued to stay current with technology and new techniques. These changes may be such that individual certifications are no longer available, no longer meet the Board of Education's criteria for diploma seals or student-selected verified credit, or require additional criteria such as work experience beyond high school. Changes have been made in two of the certifications that were previously approved by the Board. A list of certification examinations that are recommended for deletion from the Board-approved list is attached.

As a result of the proposed additions and deletions to this list there are:

- 219 credentials eligible for student-selected verified credit;
- 213 credentials eligible for the Career and Technical Education Seal; and
- 35 credentials eligible for the Advanced Mathematics and Technology Seal.

Superintendent's Recommendation:

The Superintendent of Public Instruction recommends that the Board of Education waive first review and approve the revised list of industry certification examinations, occupational competency assessments, and licenses to meet the requirements for the Board of Education's Career and Technical Education and Advanced Mathematics and Technology Seals and the student-selected verified credit.

Impact on Resources:

Federal Carl Perkins funds may be used to help teachers and programs become certified. State funds will be used to assist students to become certified or pass an occupational competency assessment.

Timetable for Further Review/Action:

After final approval, a Superintendent's Memorandum will notify school divisions of these additions to and deletions from the approved list of industry certifications, occupational competency assessments, and licenses.

Board of Education Approved Industry Certifications, Occupational Competency Assessments, and Licensure				
January 14, 2010 (Proposed)				
Name of Credential	Issuing Organization	Meets Board of Education Criteria		
		Student Selected Verified Credit	Career and Technical Education Seal	Advanced Mathematics and Technology Seal
AGRICULTURAL EDUCATION				
Agriculture Mechanics Assessment	National Occupational Competency Testing Institute (NOCTI)	X	X	
Agribusiness Examination	New York State Department of Education	X	X	
Commercial Pesticide Applicator Certification	Virginia Department of Agriculture and Consumer Services	X	X	
Floriculture-Greenhouse Assessment	National Occupational Competency Testing Institute (NOCTI)	X	X	
Floriculture Assessment	National Occupational Competency Testing Institute (NOCTI)	X	X	
Forestry Products & Processing Assessment	National Occupational Competency Testing Institute (NOCTI)	X	X	
Greenhouse Operators Certification Program	Southeast Greenhouse Growers Association	X	X	
Horticulture-Landscaping Assessment	National Occupational Competency Testing Institute (NOCTI)	X	X	
Horticulture-Olericulture and Pomology Assessment	National Occupational Competency Testing Institute (NOCTI)	X	X	
Outdoor Power Equipment Certifications (Pass any one Outdoor Power Equipment exam)	Equipment and Engine Training Council	X	X	
Pet Sitters Certification	National Association Professional Pet Sitters	X	X	
Production Agriculture Assessment	National Occupational Competency Testing Institute (NOCTI)	X	X	
Private Applicator Certification	Virginia Department of Agriculture and Consumer Services	X	X	

Board of Education Approved Industry Certifications, Occupational Competency Assessments, and Licensure				
January 14, 2010 (Proposed)				
Name of Credential	Issuing Organization	Meets Board of Education Criteria		
		Student Selected Verified Credit	Career and Technical Education Seal	Advanced Mathematics and Technology Seal
Registered Technician Certification	Virginia Department of Agriculture and Consumer Services	X	X	
Small Engine Technology Assessment	National Occupational Competency Testing Institute (NOCTI)	X	X	
Small Animal Science Examination	National Occupational Competency Testing Institute (NOCTI)	X	X	
Small Animal Care Examination	New York State Department of Education	X	X	
BUSINESS AND INFORMATION TECHNOLOGY				
Accounting-Basic Assessment	National Occupational Competency Testing Institute (NOCTI)	X	X	
Accounting - Complete Assessment	National Occupational Competency Testing Institute (NOCTI)	X	X	
Administrative Assisting Assessment	National Occupational Competency Testing Institute (NOCTI)	X	X	
Administrative Services Assessment	National Occupational Competency Testing Institute (NOCTI)	X	X	
Adobe Certified Associate (Pass any one test in this program)	Adobe Systems Incorporated	X	X	X
Apple Pro Certification Program (Pass any one exam in this program)	Apple, Inc.	X	X	X
Banking and Related Services Assessment	National Occupational Competency Testing Institute (NOCTI)	X	X	
Business and Information Technology Assessment	National Occupational Competency Testing Institute (NOCTI)	X	X	X

Board of Education Approved Industry Certifications, Occupational Competency Assessments, and Licensure				
January 14, 2010 (Proposed)				
Name of Credential	Issuing Organization	Meets Board of Education Criteria		
		Student Selected Verified Credit	Career and Technical Education Seal	Advanced Mathematics and Technology Seal
Brainbench Network Administration Certifications (Pass any one test in this category)	Brainbench	X	X	X
Brainbench Systems Administration Certifications (Pass any one test in this category)	Brainbench	X	X	X
(Pass any one test in this category)				
Brainbench Software Development Certifications (Pass any one test in this category)	Brainbench	X	X	X
Brainbench Web Design and Development Certifications (Pass any one test in this category)	Brainbench	X	X	X
Brainbench Web Administration Certifications (Pass any one test in this category)	Brainbench	X	X	X
Brainbench Desktop Publishing Certifications (Pass any one test in this category)	Brainbench	X	X	X
Certified Internet Web Professional (CIW) Program (Pass any one exam in this program)	ProsoftTraining	X	X	X
Certified Novell Administrator (CNA)	Novell	X	X	X
Computer Programming Assessment	National Occupational Competency Testing Institute (NOCTI)	X	X	X

Board of Education Approved Industry Certifications, Occupational Competency Assessments, and Licensure				
January 14, 2010 (Proposed)				
Name of Credential	Issuing Organization	Meets Board of Education Criteria		
		Student Selected Verified Credit	Career and Technical Education Seal	Advanced Mathematics and Technology Seal
Digital Literacy Certification Test (must be taken in combination with the Virginia Workplace Readiness Assessment)	Microsoft	X	X	
Financial and Investment Planning Assessment	National Occupational Competency Testing Institute (NOCTI)	X	X	
Financial Literacy Certification (WISE)	Working in Support of Education (WISE)	X	X	
Fundamentals of Wireless LANs Examination	Cisco Systems	X	X	X
Fundamental Business Concepts	ASK Institute (DECA/MarkED)	X	X	
General Management Assessment	National Occupational Competency Testing Institute (NOCTI)	X	X	
Human Resources Management Assessment	National Occupational Competency Testing Institute (NOCTI)	X	X	
IC3 Certification	Certiport	X	X	X
Java Programming Examination	Cisco Systems	X	X	X
Linux+ Certification	CompTIA	X	X	X
Microsoft Certified Professional (Pass any one Microsoft Professional exam)	Microsoft	X	X	X
Microsoft Office Specialist (MOS)-(Pass any one MOS exam)	Microsoft	X	X	
Microsoft Certified Application Specialist (MCAS)-(Pass any one MCAS exam)	Microsoft	X	X	
Network+ Certification	CompTIA	X	X	X

Board of Education Approved Industry Certifications, Occupational Competency Assessments, and Licensure				
January 14, 2010 (Proposed)				
Name of Credential	Issuing Organization	Meets Board of Education Criteria		
		Student Selected Verified Credit	Career and Technical Education Seal	Advanced Mathematics and Technology Seal
Oracle Certification Program Examinations (Pass any one Oracle certification exam)	Oracle Corporation	X	X	X
Fundamentals of Unix Examination	Cisco Systems	X	X	X
Virginia Workplace Readiness Assessment/IC3 Certification Exams (pass Virginia Workplace Readiness Assessment and any one of three IC3 exams)	National Occupational Competency Testing Institute (NOCTI) and Certiport	X	X	
FAMILY AND CONSUMER SCIENCES EDUCATION				
Broad Field Family and Consumer Sciences Examination	American Association of Family and Consumer Sciences (AAFCS)	X	X	
Commercial Foods Assessment	National Occupational Competency Testing Institute (NOCTI)	X	X	
Culinary Arts Prep Cook-Level 1 Assessment	National Occupational Competency Testing Institute (NOCTI)	X	X	
Culinary Arts Cook-Level 2 Assessment	National Occupational Competency Testing Institute (NOCTI)	X	X	
Culinary Arts Examination	American Association of Family and Consumer Sciences (AAFCS)	X	X	
Early Childhood Care and Education Assessment	National Occupational Competency Testing Institute (NOCTI)	X	X	
Early Childhood Education Examination	American Association of Family and Consumer Sciences (AAFCS)	X	X	
Education Careers Examination	American Association of Family and Consumer Sciences (AAFCS)	X	X	

Board of Education Approved Industry Certifications, Occupational Competency Assessments, and Licensure				
January 14, 2010 (Proposed)				
Name of Credential	Issuing Organization	Meets Board of Education Criteria		
		Student Selected Verified Credit	Career and Technical Education Seal	Advanced Mathematics and Technology Seal
Education and Training Assessment	National Occupational Competency Testing Institute (NOCTI)	X	X	
Family Services Examination	American Association of Family and Consumer Sciences (AAFCS)	X	X	
Fashion, Textiles, and Apparel Examination	American Association of Family and Consumer Sciences (AAFCS)	X	X	
Hospitality Management--Food and Beverage Option Assessment	National Occupational Competency Testing Institute (NOCTI)	X	X	
Hospitality Management--Lodging Option Assessment	National Occupational Competency Testing Institute (NOCTI)	X	X	
Interior Design Examination	American Association of Family and Consumer Sciences (AAFCS)	X	X	
Nutrition Examination	American Association of Family and Consumer Sciences (AAFCS)	X	X	
ParaPro	Educational Testing Service	X	X	
Personal and Family Finance Certification	American Association of Family & Consumer Sciences (AAFCS)	X	X	
ProStart Program Certification (Levels 1 and/or 2)	Education Foundation of the National Restaurant Association	X	X	
Retail Commercial Baking Assessment	National Occupational Competency Testing Institute (NOCTI)	X	X	
ServeSafe Certification	Education Foundation of the National Restaurant Association	X	X	
START Certification (Hospitality Skills)	American Hotel and Lodging Association (AH&LA)	X	X	

Board of Education Approved Industry Certifications, Occupational Competency Assessments, and Licensure				
January 14, 2010 (Proposed)				
Name of Credential	Issuing Organization	Meets Board of Education Criteria		
		Student Selected Verified Credit	Career and Technical Education Seal	Advanced Mathematics and Technology Seal
HEALTH AND MEDICAL SCIENCES EDUCATION				
Certified Dental Assistant: Infection Control Examination (ICE)	Dental Assisting National Board, Inc.	X	X	
Certified Dental Assistant: Radiation Health & Safety Examination (RHS)	Dental Assisting National Board, Inc.	X	X	
Certified Veterinary Assistant	Animal Care Technologies	X	X	
Dental Assisting Assessment	National Occupational Competency Testing Institute (NOCTI)	X	X	
EMS First Responder Certification	Department of Health, Office of Emergency Medical Services	X	X	
Emergency Medical Technician	Department of Health, Office of Emergency Medical Services	X	X	
Health Assisting Assessment	National Occupational Competency Testing Institute (NOCTI)	X	X	
Home Health Aide Assessment	National Occupational Competency Testing Institute (NOCTI)	X	X	
Medical Assisting Assessment	National Occupational Competency Testing Institute (NOCTI)	X	X	
National Health Care Foundation Skills Standards Assessment	National Consortium on Health Science & Technical Education	X	X	
NRDA Certification (Dental Assisting)	National Allied Health Registry/National Association for Health Professionals	X	X	
NRDA Certification (Medical Assisting)	National Allied Health Registry/National Association for Health Professionals	X	X	
Nurse Aide	Virginia Board of Nursing	X	X	
Nursing Assisting Assessment	National Occupational Competency Testing Institute (NOCTI)	X	X	

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Name of Credential	Issuing Organization	Meets Board of Education Criteria		
		Student Selected Verified Credit	Career and Technical Education Seal	Advanced Mathematics and Technology Seal
Practical Nursing Assessment	National Occupational Competency Testing Institute (NOCTI)	X	X	
Virginia Pharmacy Technician Examination	Virginia Board of Pharmacy	X	X	
MARKETING				
Concepts of Finance Examination	ASK Institute (DECA/MarkED)	X	X	
Concepts of Entrepreneurship and Management Examination	ASK Institute (DECA/MarkED)	X	X	
Fundamental Marketing Concepts	ASK Institute (DECA/MarkED)	X	X	
Lodging Management Program Certification (Levels 1 and/or 2)	American Hotel and Lodging Association (AH&LA)	X	X	
National Professional Certification in Customer Service	National Retail Federation Foundation	X	X	
Retail Trades Assessment	National Occupational Competency Testing Institute (NOCTI)	X	X	
Sales Certification	National Retail Federation Foundation	X	X	
MILITARY SCIENCE				
Armed Services Vocational Aptitude Battery Examination	United States Military Entrance Processing Command	X	X	

Board of Education Approved Industry Certifications, Occupational Competency Assessments, and Licensure				
January 14, 2010 (Proposed)				
Name of Credential	Issuing Organization	Meets Board of Education Criteria		
		Student Selected Verified Credit	Career and Technical Education Seal	Advanced Mathematics and Technology Seal
TECHNOLOGY EDUCATION				
ADDA Architectural Drafting Examination	American Design Drafting Association	X	X	
ADDA Mechanical Drafting Examination	American Design Drafting Association	X	X	
AutoCAD Certifications (Pass any one exam)	Brainbench	X	X	
Autodesk Application Certification Program (Pass any one exam)	Autodesk	X	X	
Automated Manufacturing Technology Examination	SkillsUSA	X	X	
Architectural Drafting Assessment	National Occupational Competency Testing Institute (NOCTI)	X	X	
Certified SolidWorks Professional	SolidWorks Corporation	X	X	
Electronic Technology Assessment	National Occupational Competency Testing Institute (NOCTI)	X	X	
Manufacturing Technology Assessment	National Occupational Competency Testing Institute (NOCTI)	X	X	
Pre-Engineering Assessment	National Occupational Competency Testing Institute (NOCTI)	X	X	
Pre-Skills Assessment for Mastercam Assessment	Mastercam--Administered by National Occupational Competency Testing Institute (NOCTI)	X	X	
STARS Certification Examination	Digital Quest, Inc.	X	X	

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Name of Credential	Issuing Organization	Meets Board of Education Criteria		
		Student Selected Verified Credit	Career and Technical Education Seal	Advanced Mathematics and Technology Seal
TRADE AND INDUSTRIAL EDUCATION				
A+ Certification (Pass any one exam from 2006 certification program)	CompTIA	X	X	X
A+ Certification (Pass any one exam from 2009 certification program)	CompTIA	X	X	X
Access Certification	American Culinary Federation, Inc. (ACF)	X	X	
Advertising Design Examination	SkillsUSA	X	X	
Advertising and Design Assessment	National Occupational Competency Testing Institute (NOCTI)	X	X	
Audio-Visual Communications Assessment	National Occupational Competency Testing Institute (NOCTI)	X	X	
Automotive Technician Core Assessment	National Occupational Competency Testing Institute (NOCTI)	X	X	
Automotive Technician Standard Assessment	National Occupational Competency Testing Institute (NOCTI)	X	X	
Automotive Technician Advanced Assessment	National Occupational Competency Testing Institute (NOCTI)	X	X	
Automotive Technician Examination (ASE)-(Pass any one exam from Automobile Technician Test Series)	National Institute for Automotive Service Excellence	X	X	
Architectural Drafting Assessment	National Occupational Competency Testing Institute (NOCTI)	X	X	
ASE/AYES/SkillsUSA Automotive Technician End-of-Program Examinations (Pass any one exam from automobile, truck, or collision repair areas)	ASE/AYES/SkillsUSA Partnership Automotive Technician Testing Program	X	X	

Board of Education Approved Industry Certifications, Occupational Competency Assessments, and Licensure				
January 14, 2010 (Proposed)				
Name of Credential	Issuing Organization	Meets Board of Education Criteria		
		Student Selected Verified Credit	Career and Technical Education Seal	Advanced Mathematics and Technology Seal
Basic Principles of Construction: Residential Construction Academy Examination	Delmar Thomson Learning/Home Builders Institute	X	X	
Basic Installer Exam, Mobile Electronics Certified Professional	Consumer Electronics Association	X	X	
BICSI Registered Installer Certification, Level 1	BICSI (International Telecommunications Association)	X	X	
Broadcasting and Journalism Assessment	National Occupational Competency Testing Institute (NOCTI)	X	X	
Building Construction Occupations Assessment	National Occupational Competency Testing Institute (NOCTI)	X	X	
Building Trades Maintenance Assessment	National Occupational Competency Testing Institute (NOCTI)	X	X	
CAD Assessment	National Occupational Competency Testing Institute (NOCTI)	X	X	
CAD/CAM Assessment	National Occupational Competency Testing Institute (NOCTI)	X	X	
Cabinetmaking Assessment	National Occupational Competency Testing Institute (NOCTI)	X	X	
Carpentry Assessment	National Occupational Competency Testing Institute (NOCTI)	X	X	
Carpentry: Residential Construction Academy Examination	Delmar Thomson Learning/Home Builders Institute	X	X	
Carpentry Level One, National Construction Career Test	National Center for Construction Education & Research (NCCER)	X	X	
Certified Computer Service Technician	Electronics Technicians Association, International (ETA)	X	X	X

Board of Education Approved Industry Certifications, Occupational Competency Assessments, and Licensure				
January 14, 2010 (Proposed)				
Name of Credential	Issuing Organization	Meets Board of Education Criteria		
		Student Selected Verified Credit	Career and Technical Education Seal	Advanced Mathematics and Technology Seal
Certified Electronics Technician Associate (CET)	Electronics Technicians Association, International (ETA)	X	X	
Certified Satellite Dish Installer	Electronics Technicians Association, International (ETA)	X	X	
CISCO CCNA Academy End-of-Course Examinations (Pass any two end-of-course exams, Levels 1-4)	CISCO Systems	X	X	X
CISCO Certified Networking Associate (Pass any one exam in CCNA certification program)	CISCO Systems	X	X	X
Collision Repair Assessment	National Occupational Competency Testing Institute (NOCTI)	X	X	
Collision Repair and Refinishing Technician (ASE)-(Pass any one exam from Collision Repair & Refinish Test Series)	National Institute for Automotive Service Excellence	X	X	
Collision Repair/Refinishing Technology Assessment	National Occupational Competency Testing Institute (NOCTI)	X	X	
Computer Networking Fundamentals Assessment	National Occupational Competency Testing Institute (NOCTI)	X	X	X
Computer Repair Technology Assessment	National Occupational Competency Testing Institute (NOCTI)	X	X	X
Construction Masonry-Blocklaying Assessment	National Occupational Competency Testing Institute (NOCTI)	X	X	
Construction Masonry-Bricklaying Assessment	National Occupational Competency Testing Institute (NOCTI)	X	X	
Construction Technology Test	National Center for Constructional Education & Research (NCCER)	X	X	

Board of Education Approved Industry Certifications, Occupational Competency Assessments, and Licensure				
January 14, 2010 (Proposed)				
Name of Credential	Issuing Organization	Meets Board of Education Criteria		
		Student Selected Verified Credit	Career and Technical Education Seal	Advanced Mathematics and Technology Seal
Computer Technology Assessment	National Occupational Competency Testing Institute (NOCTI)	X	X	X
Copper Based Cabling Certification	RBT Systems, Inc.	X	X	
Core: Introductory Craft Skills, National Construction Career Test	National Center For Construction Education & Research (NCCER)	X	X	
Cosmetology Assessment	National Occupational Competency Testing Institute (NOCTI)	X	X	
Criminal Justice Assessment	National Occupational Competency Testing Institute (NOCTI)	X	X	
Data Cabling Installer Certification (DCIC)	Electronics Technicians Association, International (ETA)	X	X	
Diesel Engine Mechanics Assessment	National Occupational Competency Testing Institute (NOCTI)	X	X	
Drafter Certification	American Design Drafting Association	X	X	
Electrical Construction Assessment	National Occupational Competency Testing Institute (NOCTI)	X	X	
Electrical Occupations Assessment	National Occupational Competency Testing Institute (NOCTI)	X	X	
Electrical Principles: Residential Construction Academy Examination	Delmar Thomson Learning/Home Builders Institute	X	X	
Electrical, National Construction Career Test	National Center For Construction Education & Research (NCCER)	X	X	
Electronics Assessment	National Occupational Competency Testing Institute (NOCTI)	X	X	
Electronics Module: DC (EM1)	Electronics Technicians Association, International (ETA)	X	X	
Electronics Module: AC (EM2)	Electronics Technicians Association, International (ETA)	X	X	

Board of Education Approved Industry Certifications, Occupational Competency Assessments, and Licensure				
January 14, 2010 (Proposed)				
Name of Credential	Issuing Organization	Meets Board of Education Criteria		
		Student Selected Verified Credit	Career and Technical Education Seal	Advanced Mathematics and Technology Seal
Electronics Module: Analog (EM3)	Electronics Technicians Association, International (ETA)	X	X	
Electronics Module: DC (EM4)	Electronics Technicians Association, International (ETA)	X	X	
Electronics Module: Comprehensive (EMS)	Electronics Technicians Association, International (ETA)	X	X	
EPA Technician Certification (Levels I, II, or III)	Environmental Protection Agency (Authorized Entity)	X	X	
Fiber Optic Network Cabling Certification	RBT Systems, Inc.	X	X	
Fiber Optics Installer Certification	Electronics Technicians Association, International (ETA)	X	X	
Firefighter I Certification	Virginia Department of Fire Programs	X	X	
Firefighter II Certification	Virginia Department of Fire Programs	X	X	
General Drafting and Design Assessment	National Occupational Competency Testing Institute (NOCTI)	X	X	
Graphic Communications Examination	PrintED/SkillsUSA Skill Connect Assessments	X	X	
Graphic Communication Technology Assessment	National Occupational Competency Testing Institute (NOCTI)	X	X	
Graymark Cabling Installation Certification	Graymark International	X	X	
Heating, Electrical, Air Conditioning Technology (HEAT) Examination (Pass any one exam)	HVAC Excellence	X	X	
Heating, Ventilation, Air Conditioning (HVAC) Assessment	National Occupational Competency Testing Institute (NOCTI)	X	X	

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January 14, 2010 (Proposed)				
Name of Credential	Issuing Organization	Meets Board of Education Criteria		
		Student Selected Verified Credit	Career and Technical Education Seal	Advanced Mathematics and Technology Seal
Heating, Ventilation, Air Conditioning & Refrigeration (HVAC/R) Assessment	National Occupational Competency Testing Institute (NOCTI)	X	X	
Heavy Equipment Operations Level One	National Center For Construction Education & Research (NCCER)	X	X	
House Wiring: Residential Construction Academy Examination	Delmar Thomson Learning/Home Builders Institute	X	X	
HVAC: Residential Construction Academy Examination	Delmar Thomson Learning/Home Builders Institute	X	X	
HVAC, National Construction Career Test	National Center For Construction Education & Research (NCCER)	X	X	
HVAC Excellence Certification Program (Pass any one exam in this program)	HVAC Excellence	X	X	
Industrial Maintenance Mechanic Assessment	National Occupational Competency Testing Institute (NOCTI)	X	X	
Installer (or Service) Core Certification (HVAC)	North American Technician Excellence, Inc. (NATE)	X	X	
IT Essentials 1 Examination (PC Hardware and Software)	Cisco Systems	X	X	X
IT Essentials 2 Examination (Network Operating Systems)	Cisco Systems	X	X	X
MSSC Certified Production Technician (CPT) Program (Pass any one CPT examination)	Manufacturing Skill Standards Council (MSSC)	X	X	
Machining Skills--Level I (Pass any one Machining (Level 1) examination with performance component)	National Institute for Metalworking Skills (NIMS)	X	X	
Masonry Level One, National Construction Career Test	National Center For Construction Education & Research (NCCER)	X	X	

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Name of Credential	Issuing Organization	Meets Board of Education Criteria		
		Student Selected Verified Credit	Career and Technical Education Seal	Advanced Mathematics and Technology Seal
Performing Arts Assessment	National Occupational Competency Testing Institute (NOCTI)	X	X	
Photography Examination	SkillsUSA	X	X	
Plumbing Assessment	National Occupational Competency Testing Institute (NOCTI)	X	X	
Plumbing: Residential Construction Academy Examination	Delmar Thomson Learning/Home Builders Institute	X	X	
Precision Machining Assessment	National Occupational Competency Testing Institute (NOCTI)	X	X	
Protective Services Assessment	National Occupational Competency Testing Institute (NOCTI)	X	X	
PrintED Certification Program (Pass any one exam)	Graphic Arts Education and Research Foundation	X	X	
Residential Air-Conditioning and Heating Certification	Air Conditioning and Refrigeration Institute	X	X	
SENSE Training Program Certification (Level 1, Entry-Level Welder)	American Welding Society (AWS)	X	X	
Screen Printing Examination	PrintED/SkillsUSA Skill Connect Assessments	X	X	
SkillsUSA Workforce Ready System (pass any one test from available examinations)	SkillsUSA	X	X	
Student Electronics Technician Certification (SET)	Electronics Technicians Association, International (ETA)	X	X	
Telecommunications Electronics Technician Certification	Electronics Technicians Association, International (ETA)	X	X	
Television Broadcasting Assessment	National Occupational Competency Testing Institute (NOCTI)	X	X	

Board of Education Approved Industry Certifications, Occupational Competency Assessments, and Licensure				
January 14, 2010 (Proposed)				
Name of Credential	Issuing Organization	Meets Board of Education Criteria		
		Student Selected Verified Credit	Career and Technical Education Seal	Advanced Mathematics and Technology Seal
Technical Drafting Assessment	National Occupational Competency Testing Institute (NOCTI)	X	X	
Visual Arts Assessment	National Occupational Competency Testing Institute (NOCTI)	X	X	
Visual Communications Assessment	National Occupational Competency Testing Institute (NOCTI)	X	X	
Welding Assessment	National Occupational Competency Testing Institute (NOCTI)	X	X	
Welding, National Construction Career Test	National Center For Construction Education & Research (NCCER)	X	X	
LICENSE				
Barbers	Board of Barbers and Cosmetology (Virginia Department of Professional and Occupational Regulation)	X	X	
Cosmetology	Board of Barbers and Cosmetology (Virginia Department of Professional and Occupational Regulation)	X	X	
Licensed Practical Nurse	Virginia Board of Nursing	X	X	
Nail Technician	Board of Barbers and Cosmetology (Virginia Department of Professional and Occupational Regulation)	X	X	
Pilot's License-Airplane Single Engine Land	Federal Aviation Administration	X	X	
Real Estate Salesperson	Virginia Real Estate Board (Dept. of Professional & Occupational Regulation)	X	X	

Board of Education Approved Industry Certifications, Occupational Competency Assessments, and Licensure				
January 14, 2010 (Proposed)				
Name of Credential	Issuing Organization	Meets Board of Education Criteria		
		Student Selected Verified Credit	Career and Technical Education Seal	Advanced Mathematics and Technology Seal
EXAMINATION				
Advanced Placement Computer Science A	The College Board	Passing Score = 3		Passing Score = 3
Advanced Placement Computer Science AB	The College Board	Passing Score = 3		Passing Score = 3
College Level Examination Program (CLEP): Information Systems and Computer Applications	The College Board	Passing Score = 52		Passing Score = 52
International Baccalaureate Computer Science (Standard Level)	The International Baccalaureate Organization	Passing Score = 3		Passing Score = 3
International Baccalaureate Computer Science (Higher Level)	The International Baccalaureate Organization	Passing Score = 3		Passing Score = 3
International Baccalaureate Information Technology in a Global Society (IB6613) (Standard Level)	The International Baccalaureate Organization	Passing Score = 3		Passing Score = 3
NOTE: New industry certification credentials and occupational competency assessments are printed in bold.				

**Deletions to Board of Education's Approved Industry Certifications and Licenses
January 15, 2009 (Proposed)**

Certifications	Issuing Organization	Deletions
Automotive Youth Educational Systems (AYES) Exit Examinations (Pass any two AYES exit exams)	Automotive Youth Educational Systems	Credential has been discontinued.
National Automotive Technicians Education Foundation (NATEF) End of Program Test Series Examinations (Pass any two NATEF, End of Program Test Series, exams)	National Automotive Technicians Education Foundation	Credential has been discontinued.