

**STATE BOARD OF EDUCATION**  
**Consent Item**  
July 23, 2015

**SUBJECT:** Approval of Amendment to Rule 6A-10.040, Basic Skills Requirements for Postsecondary Career and Technical Certificate Education

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**PROPOSED BOARD ACTION**

For Approval

**AUTHORITY FOR STATE BOARD ACTION**

Section 1004.91, Florida Statutes

**EXECUTIVE SUMMARY**

Students enrolling in career certificate programs of 450 hours or greater must complete an entry-level exam within the first six weeks after admission to the program and if necessary, the school district or Florida College System institution offering the program must provide basic skills instruction. The statute provides exemptions for students holding certain credentials and this amended rule will update the Basic Skills and Licensure Exemptions List for the 2015-16 academic year. Additionally it adds a new assessment which may be used to demonstrate basic skills mastery and removes assessments that are no longer available by the publisher.

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**Supporting Documentation Included:** Proposed Rule 6A-10.040, F.A.C. and Basic Skills and Licensure Exemption List – 2015-2016

**Facilitator:** Rod Duckworth, Chancellor, Division of Career and Adult Education

**6A-10.040 Basic Skills Requirements for Postsecondary Career and Technical Certificate Education.**

(1) Students who are enrolled in a postsecondary program offered for career education credit of 450 hours or more shall complete an entry-level basic skills examination within the first six (6) weeks after admission into the program. The assessment instruments listed in paragraphs (1)(a) through (1)(~~d~~) of this rule (English version only) are designated to assess student mastery of basic skills and shall be used according to standards established for test administration and interpretation set forth in Standards for Educational and Psychological Testing (American Psychological Association (APA), American Educational Research Association (AERA), National Council on Measurement in Education (NCME), 1992) and with appropriate accommodations for students with disabilities as specified in Rule 6A-1.0943, F.A.C.:

(a) Tests of Adult Basic Education (TABE), Complete Battery or Survey Form, Forms 9 and 10, 2003;

(b) Postsecondary Education Readiness Test (P.E.R.T.);

(c) Wonderlic Basic Skills Test (WBST), 1994;

(d) Wonderlic General Assessment of Instructional Needs (GAIN), 2007-2008.

(e) 2014 GED® Tests: Reasoning through Language Arts and Mathematical Reasoning where a minimum score of 150 has been attained on each test.

(2) through (6) No change.

(7) If the tests listed in subsection (1) do not meet the initial assessment needs of the adult with disability or ELL student, one of the following alternative assessment instruments may be used within the first six (6) weeks, for diagnostic and remediation purposes only:

(a) Tests of Adult Basic Education Complete Language Assessment System – English (TABE CLAS-E), 2006;

(b) Brigance Employability Skills, 1995;

(c) Brigance Transition Skills Inventory, 2010;

(d) Comprehensive Test of Adaptive Behaviors (CTAB), 1986;

~~(e) Comprehensive Adult Student Assessment System (CASAS) – Life Skills, 1996 (reading and listening);~~

~~(f) Comprehensive Adult Student Assessment System (CASAS) – STRETCH, 1996;~~

~~(g)~~ (e) Comprehensive Adult Student Assessment System (CASAS) – Test for Special Populations, 1996;

~~(f)~~ (h) Kaufman Functional Academic Skills Test (K-FAST), 1994;

~~(g)~~ (i) Literacy Volunteers of America (LVA) English as a Second Language Oral Assessment (ESLOA), 1995;

or

(h) (j) Comprehensive Adult Student Assessment System (CASAS) – Life and Work, 2001 (reading).

(8) The following students are exempt from taking the initial basic skills assessment required in subsection (1) of this rule. The designated program administrator must receive an official copy of the degree, transcript, or test score in order to allow any of these exemptions.

(a) A student who possesses a college degree at the associate in applied science level or higher.

(b) A student who demonstrates readiness for public postsecondary education pursuant to Rule 6A-10.0315, F.A.C.

(c) A student who passes a state, national or industry certification or licensure examination ~~effective July 1, 2014~~, that is identified in the list entitled “Basic Skills and Licensure Exemption List – 2015-2016 ~~2014-2015~~” (<http://www.flrules.org/Gateway/reference.asp?No=Ref-03950>) (<http://www.fldoe.org/core/fileparse.php/5652/urlt/2015-16-basicskills-with-License-exempt.rtf> ~~<http://www.fldoe.org/workforce/dwdframe/rtf/2014-15-basicskills-with-License-exempt.rtf>~~), which is incorporated by reference herein. The Basic Skills and Licensure Exemption List may be requested from the Department of Education, Division of Career and Adult Education, 325 West Gaines Street, Tallahassee, FL 32399-0400.

(d) An adult student who is enrolled in an apprenticeship program that is registered with the Department of Education in accordance with Chapter 446, F.S. Rulemaking Authority 1001.02(1), 1004.91(1) FS. Law Implemented 1004.91 FS. History—New 10-8-85, Formerly 6A-10.40, Amended 5-2-89, 9-5-93, 11-25-97, 1-24-99, 4-26-06, 7-21-08, 5-18-14,

## BASIC SKILLS AND LICENSURE EXEMPTION LIST 2015-2016

*Licensure exemptions are listed as Certification Codes from the Division of Career and Adult Education Industry Certification Descriptions. If a student is unable to meet the basic skills requirements on the post-test for basics skills requirements, they may sit for one of the related exams listed below and if they earn that industry certification, they may be counted as a program completer (s. 1004.91, F.S.).*

<b>Title</b>	<b>Program #</b>	<b>Career Cluster</b>	<b>13-14 Math</b>	<b>13-14 Lang</b>	<b>13-14 Read</b>	<b>14-15 Math</b>	<b>14-15 Lang</b>	<b>14-15 Read</b>	<b>15-16 Math</b>	<b>15-16 Lang</b>	<b>15-16 Read</b>	<b>Certification Code Form</b> <a href="http://www.fl DOE.org/core/fileparse.php/5423/urlt/1415ClockHourInvent.pdf">http://www.fl DOE.org/core/fileparse.php/5423/urlt/1415ClockHourInvent.pdf</a>
<b>.NET Application Development &amp; Programming</b>	Y700400	IT	9	9	9	9	9	9	9	9	9	
<b>3-D Animation Technology</b>	I480200	Arts, A/V Technology & Communication	10	10	10	10	10	10	10	10	10	
<b>Accounting Operations</b>	B070110	Business Management & Administrative	9	9	9	9	9	9	10	10	10	AIOPB001
<b>Administrative Office Specialist</b>	B070330	Business Management & Administrative	10	10	10	10	10	10	10	10	10	
<b>Advanced Automotive Service Technology 1</b>	T600100	Transportation, Distribution & Logistics	10	10	10	10	10	10	10	10	10	NIASE002, NIASE008, FLADA001
<b>Advanced Automotive Service Technology 2</b>	T600200	Transportation, Distribution & Logistics	10	10	10	10	10	10	10	10	10	NIASE002, NIASE005, NIASE007, NIASE009, NIASE010, NIASE011, NIASE012, NIASE014, FLADA001
<b>Advanced Automotive Technology</b>	I470604	Transportation, Distribution & Logistics	10	10	10	10	10	10	10	10	10	NIASE002, NIASE005, NIASE007, NIASE008, NIASE009, NIASE010, NIASE011, NIASE012, NIASE014, FLADA001
<b>Advanced Esthetics</b>	D500200	Human Services	8	8	9	8	8	9	8	8	9	
<b>Advanced Floral Design and Management</b>	A120200	Agriculture, Food and Natural Resources	9	9	9	9	9	9	9	9	9	

<b>Title</b>	<b>Program #</b>	<b>Career Cluster</b>	<b>13-14 Math</b>	<b>13-14 Lang</b>	<b>13-14 Read</b>	<b>14-15 Math</b>	<b>14-15 Lang</b>	<b>14-15 Read</b>	<b>15-16 Math</b>	<b>15-16 Lang</b>	<b>15-16 Read</b>	<b>Certification Code Form</b> <a href="http://www.fl DOE.org/core/fileparse.php/5423/urlt/1415ClockHourInvent.pdf">http://www.fl DOE.org/core/fileparse.php/5423/urlt/1415ClockHourInvent.pdf</a>
<b>Advanced Water Treatment Technologies</b>	P150509	Agriculture, Food and Natural Resources	9	9	9	9	9	9	9	9	9	
<b>Air Conditioning, Refrigeration and Heating Technology</b>	I470203	Architecture & Construction	10	9	9	10	9	9	Deleted			NCCER018, NCCER081, NCCER082, NCCER083, HVACE001, HVACE002, HVACE003, HVACE004, HVACE005, HVACE006, NATEX001, NATEX002, NATEX003, NATEX004
<b>Air Conditioning, Refrigeration and Heating Technology 1</b>	C400100	Architecture & Construction	10	9	9	10	9	9	10	9	9	NCCER018, NCCER081, NCCER082, NCCER083, HVACE001, HVACE002, HVACE003, HVACE004, HVACE005, HVACE006, NATEX001, NATEX002, NATEX003, NATEX004
<b>Air Conditioning, Refrigeration and Heating Technology 2</b>	C400200	Architecture & Construction	10	9	9	10	9	9	Deleted			NCCER018, NCCER081, NCCER082, NCCER083, HVACE001, HVACE002, HVACE003, HVACE004, HVACE005, HVACE006, NATEX001, NATEX002, NATEX003, NATEX004
<b>Aircraft Airframe Mechanics</b>	I470612	Transportation, Distribution & Logistics	10	9	10	10	9	10	10	9	10	FEDAA004, FEDAA010
<b>Aircraft Coating and Corrosion Control Technology</b>	T400300	Transportation, Distribution & Logistics	10	9	10	10	9	10	10	9	10	
<b>Aircraft Power Plant Mechanics</b>	I470622	Transportation, Distribution & Logistics	10	9	10	10	9	10	10	9	10	FEDAA004, FEDAA010
<b>Applied Cybersecurity</b>	Y100300	IT	10	9	9	10	9	9	10	9	9	
<b>Applied Information Technology</b>	Y300400	IT	9	9	9	9	9	9	9	9	9	
<b>Applied Welding Technologies</b>	I480500	Manufacturing	9	9	9	9	9	9	Deleted			AWELD001, NCCER061, NCCER062, NCCER063

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<b>Automation &amp; Production Technology</b>	J100100	Manufacturing	9	9	9	9	9	9	9	9	9	MSSCN001
<b>Automotive Collision Repair and Refinishing</b>	I470603	Transportation, Distribution & Logistics	9	9	9	9	9	9	9	9	9	NIASE035, NIASE017, NIASE018, NIASE019, NIASE029, NIASE032
<b>Automotive Collision Repair and Refinishing 1</b>	T400100	Transportation, Distribution & Logistics	9	9	9	9	9	9	9	9	9	NIASE035, NIASE017, NIASE018, NIASE019
<b>Automotive Collision Repair and Refinishing 2</b>	T400200	Transportation, Distribution & Logistics	9	9	9	9	9	9	9	9	9	NIASE035, NIASE029, NIASE032
<b>Automotive Detailing and Reconditioning</b>	I470623	Transportation, Distribution & Logistics	9	9	9	9	9	9	9	9	9	
<b>Automotive Service Technology</b>	I470608	Transportation, Distribution & Logistics	10	9	9	10	9	9	10	9	9	NIASE002, NIASE005, NIASE007, NIASE008, NIASE009, NIASE010, NIASE011, NIASE012, NIASE014, FLADA001
<b>Automotive Service Technology 1</b>	T400700	Transportation, Distribution & Logistics	10	9	9	10	9	9	10	9	9	NIASE002, NIASE007, NIASE008, NIASE010, NIASE014, FLADA001
<b>Automotive Service Technology 2</b>	T400800	Transportation, Distribution & Logistics	10	9	9	10	9	9	10	9	9	NIASE002, NIASE005, NIASE009, NIASE011, NIASE012, FLADA001
<b>Avionics</b>	I470199	Transportation, Distribution & Logistics	10	10	10	10	10	10	10	10	10	NCATT001, ETAIN006
<b>Avionics 1</b>	T640100	Transportation, Distribution & Logistics	10	10	10	10	10	10	10	10	10	NCATT001, ETAIN006
<b>Avionics 2</b>	T640200	Transportation, Distribution & Logistics	10	10	10	10	10	10	10	10	10	NCATT001, ETAIN006

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<b>Avionics Technology</b>	T400300	Transportation, Distribution & Logistics	10	10	10	10	10	10	10	10	10	
<b>Baking and Pastry Arts</b>	N100600	Hospitality & Tourism	9	9	9	9	9	9	9	9	9	Must have earned either IFSEA001 OR NRAEF003, AND NRAEF001
<b>Barbering</b>	I120402	Human Services	9	9	9	9	9	9	9	9	9	FLDOP001, FLDOP007
<b>Biomedical Equipment Repair Technology</b>	J400100	Manufacturing	10	10	10	10	10	10	10	10	10	
<b>Brick and Block Masonry</b>	I463112	Architecture & Construction	9	8	8	9	8	8	9	8	8	NCCER025, NCCER044. NCCER045
<b>Building Construction Technologies</b>	I460401	Architecture & Construction	9	9	9	9	9	9	9	9	9	NCCER008, NCCER027
<b>Building Trades and Construction Design Technology</b>	C100100	Architecture & Construction	9	9	9	9	9	9	9	9	9	NCCER008, NCCER027
<b>Business Management and Analysis</b>	B060200	Business Management & Administrative	9	9	9	9	9	9	9	9	9	
<b>Cabinetmaking</b>	I480704	Architecture & Construction	9	9	9	9	9	9	Deleted			NCCER002
<b>Cabinetmaking (NEW)</b>	C410400	Architecture & Construction	NA	NA	NA	NA	NA	NA	9	9	9	NCCER002
<b>Carpentry</b>	I460202	Architecture & Construction	9	9	9	9	9	9	9	9	9	NCCER075, NCCER005, NCCER032, NCCER033, NCCER034
<b>Carpentry 1</b>	C510100	Architecture & Construction	9	9	9	9	9	9	9	9	9	NCCER075, NCCER005, NCCER032, NCCER033, NCCER034

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<b>Carpentry 2</b>	C510200	Architecture & Construction	9	9	9	9	9	9	9	9	9	NCCER075, NCCER005, NCCER032, NCCER033, NCCER034
<b>Central Sterile Processing Technology - PSAV</b>	H170220	Health Science	9	9	9	9	9	9	9	9	9	AHCSM001
<b>Clock/Watch Making and Repair</b>	I470408	Manufacturing	9	9	9	Deleted						
<b>Cloud Computing &amp; Virtualization</b>	Y100400	Information Technology	NA	NA	NA	9	9	9	9	9	9	
<b>Commercial and Industrial Insulation</b>	I460407	Architecture & Construction	9	9	9	Deleted						NCCER021, NCCER076, NCCER077, NCCER078
<b>Commercial Art Technology</b>	I480203	Arts, A/V Technology & Communication	9	9	9	9	9	9	9	9	9	
<b>Commercial Art Technology 1</b>	K600100	Arts, A/V Technology & Communication	9	9	9	9	9	9	9	9	9	
<b>Commercial Art Technology 2</b>	K600200	Arts, A/V Technology & Communication	9	9	9	9	9	9	9	9	9	
<b>Commercial Fishing</b>	I490303	Transportation, Distribution & Logistics	9	9	9	9	9	9	Deleted			
<b>Commercial Foods and Culinary Arts</b>	N100500	Hospitality & Tourism	9	9	9	9	9	9	9	9	9	NRFSP001 OR NRAEF003
<b>Commercial Photography Technology</b>	I480204	Arts, A/V Technology & Communication	9	9	9	9	9	9	9	9	9	
<b>Commercial Photography Technology 1</b>	K610100	Arts, A/V Technology & Communication	9	9	9	9	9	9	9	9	9	



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<b>Commercial Photography Technology 2</b>	K610200	Arts, A/V Technology & Communication	9	9	9	9	9	9	9	9	9	
<b>Communication Electronics</b>	I470103	Arts, A/V Technology & Communication	10	9	9	Deleted						
<b>Computer Systems &amp; Information Technology (CSIT)</b>	Y100200	IT	10	9	10	10	9	9	10	9	9	COMPT001, COMPT006, COMPT008
<b>Computer Systems Technology</b>	I470104	IT	10	9	9	Deleted						COMPT001, COMPT009, COMPT006, CISCO003, CISCO004, MICRO033, MICRO046, MICRO052, ETAIN003
<b>Computer Systems Technology 1</b>	J500100	IT	10	9	9	Deleted						COMPT001, COMPT001, COMPT009, COMPT006, CISCO003, CISCO004, MICRO033, MICRO046, MICRO052, ETAIN003
<b>Computer Systems Technology 2</b>	J500200	IT	10	9	9	Deleted						COMPT001, COMPT001, COMPT009, COMPT006, CISCO003, CISCO004, MICRO033, MICRO046, MICRO052, ETAIN003
<b>Concrete Masonry</b>	I463113	Architecture & Construction	9	8	8	Deleted						
<b>Cosmetology</b>	D500100	Human Services	8	8	9	8	8	9	8	8	9	FLDOP002
<b>Court Reporting</b>	B070602	Business Management & Administrative	10	12	12	Deleted						

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<b>Court Reporting 1</b>	B700500	Business Management & Administrative	10	12	12	Deleted						
<b>Court Reporting 2</b>	B700600	Business Management & Administrative	10	12	12	10	12	12	10	12	12	
<b>Court Reporting 3</b>	B700700	Business Management & Administrative	10	12	12	10	12	12	10	12	12	
<b>Court Reporting Transcriptionist</b>	B600100	Business Management & Administrative	NA	NA	NA	10	10	10	10	12	12	
<b>Criminal Justice Operations</b>	P430199	Law, Public Safety & Security	10	10	10	10	10	10	10	10	10	
<b>Customer Assistance Technology</b>	B079100	Business Management & Administrative	9	9	9	9	9	9	9	9	9	
<b>Customer Service Representative</b>	M807060	Marketing, Sales & Services	9	9	9	9	9	9	9	9	9	
<b>Customer Service Technology ATD</b>	M807068	Marketing, Sales & Services	10	10	10	10	10	10	Deleted			
<b>Customer Service Technology ATD</b>	NA	Marketing, Sales & Services	10	10	10	10	10	10	10	10	10	
<b>Database and Programming Essentials</b>	Y300100	IT	11	11	11	11	11	11	11	11	11	
<b>Database Application Development &amp; Programming</b>	Y700300	IT	9	9	9	9	9	9	9	9	9	

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<b>Dental Assisting</b>	H170106	Health Science	NA	NA	NA	10	10	10	10	10	10	DANBD001
<b>Dental Assisting Technology and Management ATD</b>	H170113	Health Science	10	10	10	10	10	10	10	10	10	DANBD001
<b>Dental Assisting Technology and Management ATD</b>	NA	Health Science	10	10	10	10	10	10	10	10	10	DANBD001
<b>Dental Laboratory Technology</b>	H170103	Health Science	9	9	9	9	9	9	9	9	9	
<b>Digital Audio Production</b>	I100230	Arts, A/V Technology & Communication	9	9	9	9	9	9	9	9	9	
<b>Digital Cinema Production</b>	K100100	Arts, A/V Technology & Communication	9	9	9	9	9	9	9	9	9	
<b>Digital Design</b>	B070600	Arts, A/V Technology & Communication	9	9	9	9	9	9	9	9	9	ADOBE012
<b>Digital Design 1</b>	K700100	Arts, A/V Technology & Communication	9	9	9	9	9	9	9	9	9	ADOBE012
<b>Digital Design 2</b>	K700200	Arts, A/V Technology & Communication	9	9	9	9	9	9	9	9	9	ADOBE012
<b>Digital Media/Multimedia Design</b>	K100200	Arts, A/V Technology & Communication	10	10	10	10	10	10	10	10	10	
<b>Digital Media Technology</b>	Y500100	IT	10	10	10	10	10	10	10	10	10	

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<b>Digital Photography Technology</b>	K100300	Arts, A/V Technology & Communication	NA	NA	NA	9	9	9	9	9	9	
<b>Digital Printing Technology</b>	I480205	Arts, A/V Technology & Communication	9	9	9	9	9	9	9	9	9	
<b>Digital Video Production</b>	I100240	Arts, A/V Technology & Communication	9	9	9	9	9	9	9	9	9	
<b>Diversified Career Technology</b>	D886100	Additional Career	9	9	9	9	9	9	9	9	9	
<b>Drafting PSAV</b>	C100200	Architecture & Construction	10	9	9	10	9	9	10	9	9	AMDDA002, AMDDA003, AMDDA004, AMDDA005, ADESK021, ADESK022, ADESK025, ADESK002
<b>Dry Cleaning and Laundry</b>	I120101	Human Services	8	8	8	8	8	8	8	8	8	
<b>Early Childhood Education (NEW)</b>	E300100	Education & Training	9	9	9	9	9	9	9	9	9	Must earn either FLDCF003 OR FLDOE001, AND FLDCF005
<b>E-Commerce Marketing</b>	M899992	Marketing, Sales & Services	9	9	9	9	9	9	9	9	9	
<b>Electrical and instrumentation Technology</b>	I150404	Manufacturing	11	10	10	11	10	10	11	10	10	MSSCN001
<b>Electrical and instrumentation Technology 1</b>	J110100	Manufacturing	11	10	10	11	10	10	11	10	10	MSSCN001
<b>Electrical and instrumentation Technology 2</b>	J110200	Manufacturing	11	10	10	11	10	10	11	10	10	MSSCN001
<b>Electrical Line Service Repair</b>	I460303	Energy	9	9	9	9	9	9	9	9	9	

<b>Title</b>	<b>Program #</b>	<b>Career Cluster</b>	<b>13-14 Math</b>	<b>13-14 Lang</b>	<b>13-14 Read</b>	<b>14-15 Math</b>	<b>14-15 Lang</b>	<b>14-15 Read</b>	<b>15-16 Math</b>	<b>15-16 Lang</b>	<b>15-16 Read</b>	<b>Certification Code Form</b> <a href="http://www.fl DOE.org/core/fileparse.php/5423/urlt/1415ClockHourInvent.pdf">http://www.fl DOE.org/core/fileparse.php/5423/urlt/1415ClockHourInvent.pdf</a>
<b>Electrician</b>	I460314	Architecture & Construction	9	9	9	9	9	9	9	9	9	NCCER010, NCCER038, NCCER039, NCCER040
<b>Electricity</b>	I460312	Architecture & Construction	9	9	9	9	9	9	9	9	9	NCCER010, NCCER038, NCCER039, NCCER040
<b>Electrocardiograph Technology</b>	H170208	Health Science	9	9	9	9	9	9	9	9	9	NATHA002, CCINT001, NCFNT001
<b>Electroneurodiagnostic Technology</b>	H170204	Health Science	10	11	11	10	11	11	10	11	11	
<b>Electronic Business Enterprise</b>	B070100	Business Management & Administrative	9	9	9	9	9	9	9	9	9	
<b>Electronic System Assembly</b>	I470129	Manufacturing	9	9	9	Deleted						
<b>Electronic Technology</b>	I150303	Manufacturing	10	9	9	10	9	9	10	9	9	ETAIN008, ISCET001, ISCET002, NCCER013, NCCER041, NCCER042, NCCER043
<b>Electronic Technology 1</b>	J540100	Manufacturing	10	9	9	10	9	9	10	9	9	ETAIN008, ISCET001, ISCET002, NCCER013, NCCER041, NCCER042, NCCER043
<b>Electronic Technology 2</b>	J540200	Manufacturing	10	9	9	10	9	9	10	9	9	ETAIN008, ISCET001, ISCET002, NCCER013, NCCER041, NCCER042, NCCER043
<b>Energy Generation Technician</b>	X600200	Energy	9	9	9	9	9	9	9	9	9	CEWFC001
<b>Energy Technician</b>	X600600	Energy	9	9	9	9	9	9	9	9	9	CEWFD001
<b>Entrepreneurship</b>	M803010	Marketing, Sales & Services	9	9	9	9	9	9	9	9	9	
<b>Family Health Support Worker ATD</b>	NA	Human Services	10	10	10	10	10	10	10	10	10	
<b>Family Health Support Worker ATD</b>	H170205	Human Services	10	10	10	10	10	10	10	10	10	
<b>Fashion Marketing</b>	M801020	Marketing, Sales & Services	9	9	9	9	9	9	9	9	9	

<b>Title</b>	<b>Program #</b>	<b>Career Cluster</b>	<b>13-14 Math</b>	<b>13-14 Lang</b>	<b>13-14 Read</b>	<b>14-15 Math</b>	<b>14-15 Lang</b>	<b>14-15 Read</b>	<b>15-16 Math</b>	<b>15-16 Lang</b>	<b>15-16 Read</b>	<b>Certification Code Form</b> <a href="http://www.fl DOE.org/core/fileparse.php/5423/urlt/1415ClockHourInvent.pdf">http://www.fl DOE.org/core/fileparse.php/5423/urlt/1415ClockHourInvent.pdf</a>
<b>Fashion Technology and Design Services</b>	V200400	Arts, A/V Technology & Communication	9	9	9	9	9	9	9	9	9	
<b>Fashion Technology and Production Services</b>	K500100	Arts, A/V Technology & Communication	NA	NA	NA	10	10	10	10	10	10	
<b>Film Production Equipment Operations</b>	I110112	Arts, A/V Technology & Communication	9	9	9	9	9	9	9	9	9	
<b>Finance</b>	M804011	Finance	9	9	9	9	9	9	9	9	9	
<b>Fire Fighter</b>	P430205	Law, Public Safety & Security	10	10	10	10	10	10	Deleted			FLSFM002, FLSFM005, FLSFM006
<b>Fire Fighter I/II</b>	P430210	Law, Public Safety & Security	NA	NA	NA	NA	NA	NA	10	10	10	FLSFM002, FLSFM005, FLSFM006
<b>Fire Fighter/ Emergency Medical Technician- Combined</b>	P430215	Law, Public Safety & Security	NA	NA	NA	NA	NA	NA	10	10	10	FLSFM002, FLSFM005, FLSFM006
<b>Floral Design &amp; Marketing (NEW)</b>	A120100	Agriculture, Food and Natural Resources	9	9	9	9	9	9	9	9	9	FLSFA001
<b>Game Simulation/Animation Programming</b>	B082300	IT	10	10	10	10	10	10	10	10	10	
<b>Gasoline Engine Service Technology</b>	I470606	Transportation, Distribution & Logistics	8	8	8	8	8	8	Deleted			EAETC001
<b>Geospatial/Geographic Information System (GIS) Technology</b>	T860020	IT	10	10	10	10	10	10	10	10	10	

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<b>Global Finance</b>	F100110	Finance	9	9	9	9	9	9	9	9	9	
<b>Global Logistics and Supply Chain Technology</b>	T300100	Transportation, Distribution & Logistics	9	9	9	9	9	9	9	9	9	TAFOM001, AMSTL003, MSSCN002
<b>GSA Audio/Video Effects</b>	B082200	IT	10	10	10	10	10	10	10	10	10	
<b>GSA Programming</b>	B082300	IT	10	10	10	10	10	10	10	10	10	
<b>GSA Visual/Design</b>	B082100	IT	10	10	10	10	10	10	10	10	10	
<b>Health Unit Coordinator (PS)</b>	H170513	Health Science	9	10	10	9	10	10	Daggered for deletion			NAHUC001
<b>Health Unit Coordinator/Monitor Technician</b>	H170107	Health Science	NA	NA	NA	NA	NA	NA	9	10	10	NAHUC001
<b>Heavy Equipment Mechanics</b>	I470302	Transportation, Distribution & Logistics	9	9	9	9	9	9	9	9	9	NIASE003, NAISE016, NAISE020, NAISE021, NAISE023, NAISE025, NAISE026, NAISE031, NAISE033
<b>Heavy Equipment Operation</b>	I490202	Transportation, Distribution & Logistics	8	8	8	8	8	8	8	8	8	NCCER017, NCCER067, NCCER068
<b>Hemodialysis Technician</b>	H170207	Health Science	10	10	10	10	10	10	10	10	10	
<b>Hospitality and Tourism</b>	M811040	Hospitality & Tourism	9	9	9	9	9	9	9	9	9	
<b>Industrial Distribution and Management</b>	M812040	Marketing, Sales & Services	9	9	9	9	9	9	9	9	9	
<b>Industrial Electricity</b>	I460313	Architecture & Construction	9	9	9	9	9	9	Deleted			NCCER010, NCCER038, NCCER039, NCCER040
<b>Industrial Machinery Maintenance</b>	I470303	Manufacturing	9	9	9	9	9	9	9	9	9	MSSCN001, NCCER020, NCCER079, NCCER080, NCCER084, NCCER085, NCCER086, NCCER095
<b>Industrial Machinery Maintenance 1</b>	J590100	Manufacturing	9	9	9	9	9	9	9	9	9	MSSCN001, NCCER020, NCCER079, NCCER080, NCCER084, NCCER085,

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												NCCER086, NCCER095
<b>Industrial Machinery Maintenance 2</b>	J590200	Manufacturing	9	9	9	9	9	9	9	9	9	MSSCN001, NCCER020, NCCER079, NCCER080, NCCER084, NCCER085, NCCER086, NCCER095
<b>Industrial Pipefitter</b>	I460514	Architecture & Construction	9	9	9	9	9	9	9	9	9	NCCER023, NCCER049, NCCER050, NCCER051
<b>Industrial Technology</b>	I150603	Manufacturing	9	9	9	9	9	9	9	9	9	MSSCN001
<b>Information Technology</b>	Y300300	IT	9	9	9	Deleted						
<b>Interior Décor Fabrication</b>	V200505	Arts, A/V Technology & Communication	9	9	9	Deleted						
<b>Interior Decorating Services</b>	V200600	Arts, A/V Technology & Communication	9	9	9	9	9	9	9	9	9	
<b>Interior Design Services</b>	V200500	Arts, A/V Technology & Communication	9	9	9	Deleted						
<b>International Business</b>	B060901	Business Management & Administrative	9	9	9	9	9	9	9	9	9	
<b>International Marketing</b>	M807030	Marketing, Sales & Services	9	9	9	9	9	9	9	9	9	
<b>Java Development &amp; Programming</b>	Y700200	IT	9	9	9	9	9	9	9	9	9	ORACL004 ORACL005
<b>Jewelry Making and Repair</b>	I480602	Manufacturing	9	9	9	9	9	9	9	9	9	JWLRA001
<b>Jewelry Making and Repair 1</b>	J450400	Manufacturing	9	9	9	9	9	9	9	9	9	JWLRA001



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												<a href="http://www.fl DOE.org/core/fileparse.php/5423/urlt/1415ClockHourInvent.pdf">http://www.fl DOE.org/core/fileparse.php/5423/urlt/1415ClockHourInvent.pdf</a>
<b>Jewelry Making and Repair 2</b>	J450500	Manufacturing	9	9	9	9	9	9	9	9	9	JWLRA001
<b>Landscape Management</b>	A010615	Agriculture, Food and Natural Resources	9	9	9	9	9	9	9	9	9	FNGLA001
<b>Landscape and Turf Management</b>	A200100	Agriculture, Food and Natural Resources	NA	NA	NA	NA	NA	NA	9	9	9	FNGLA001
<b>Legal Administrative Specialist</b>	B072000	Business Management & Administrative	10	10	10	10	10	10	10	10	10	
<b>Lodging Operations</b>	M607010	Hospitality & Tourism	9	9	9	9	9	9	9	9	9	
<b>Machining</b>	I480503	Manufacturing	9	8	9	9	8	9	Deleted			MSSCN001, NIFMS011, NIFMS005, NIFMS006
<b>Machining Technologies</b>	J200100	Manufacturing	NA	NA	NA	NA	NA	NA	9	8	9	MSSCN001, NIFMS011, NIFMS005, NIFMS006
<b>Major Appliance and Refrigeration Repair</b>	I470106	Manufacturing	9	9	9	9	9	9	9	9	9	PRSV A001
<b>Major Appliance and Refrigeration Repair 1</b>	J620100	Manufacturing	9	9	9	9	9	9	9	9	9	PRSV A001
<b>Major Appliance and Refrigeration Repair 2</b>	J620200	Manufacturing	9	9	9	9	9	9	9	9	9	PRSV A001
<b>Marine Service Technologies</b>	T400210	Transportation, Distribution & Logistics	NA	NA	NA	NA	NA	NA	9	9	9	
<b>Marine Service Technology</b>	I490306	Transportation, Distribution & Logistics	9	9	9	9	9	9	Deleted			

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<b>Marine Service Technology 1</b>	T500100	Transportation, Distribution & Logistics	9	9	9	9	9	9	Deleted			
<b>Marine Service Technology 2</b>	T500200	Transportation, Distribution & Logistics	9	9	9	9	9	9	Deleted			
<b>Marketing</b>	M899991	Marketing, Sales & Services	9	9	9	Deleted						
<b>Marketing, Management and Entrepreneurship Principles</b>	M200500	Marketing, Sales & Services	NA	NA	NA	9	9	9	9	9	9	
<b>Marketing Merchandising and Parts Operations</b>	M812031	Marketing, Sales & Services	9	9	9	9	9	9	9	9	9	
<b>Marketing Merchandising and Parts Operations 1</b>	M700100	Marketing, Sales & Services	9	9	9	9	9	9	9	9	9	
<b>Marketing Merchandising and Parts Operations 2</b>	M700200	Marketing, Sales & Services	9	9	9	9	9	9	9	9	9	
<b>Massage Therapy</b>	H120405	Health Science	9	10	10	9	10	10	9	10	10	NBTMB001, FASMB001, AMMMA001
<b>Medical Administrative Specialist</b>	B070300	Business Management & Administrative	10	10	10	10	10	10	10	10	10	NATHA003
<b>Medical Assisting</b>	H170503	Health Science	10	10	10	10	10	10	Daggered for deletion			AMAMA001, AMEDT004
<b>Medical Assisting (NEW)</b>	H170515	Health Science	NA	NA	NA	NA	NA	NA	10	10	10	AMAMA001, AMEDT004
<b>Medical Clinical Laboratory Technician ATD</b>	H170600	Health Science	10	11	11	10	11	11	10	11	11	

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<b>Medical Clinical Laboratory Technician ATD</b>	NA	Health Science	10	11	11	10	11	11	10	11	11	
<b>Medical Coder Biller</b>	H170526	Health Science	9	11	11	9	11	11	Daggered for deletion			AHIMA001, AHIMA002, AHIMA003, ACOPC004, ACOPC005, ACOPC006
<b>Medical Coder Biller (NEW)</b>	H170529	Health Science	NA	NA	NA	NA	NA	NA	9	11	11	AHIMA001, AHIMA002, AHIMA003, ACOPC004, ACOPC005, ACOPC006
<b>Medical Coder Biller ATD</b>	NA	Health Science	10	11	11	10	11	11	Daggered for deletion			AHIMA001, AHIMA002, AHIMA003, ACOPC004, ACOPC005, ACOPC006
<b>Medical Coder Biller ATD (NEW)</b>	NA	Health Science	NA	NA	NA	NA	NA	NA	10	11	11	AHIMA001, AHIMA002, AHIMA003, ACOPC004, ACOPC005, ACOPC006
<b>Medical Coder Biller ATD</b>	H170528	Health Science	10	11	11	10	11	11	Deleted			AHIMA001, AHIMA002, AHIMA003, ACOPC004, ACOPC005, ACOPC006
<b>Medical Coder Biller ATD (NEW)</b>	H170530	Health Science	NA	NA	NA	NA	NA	NA	10	11	11	AHIMA001, AHIMA002, AHIMA003, ACOPC004, ACOPC005, ACOPC006
<b>Medical Education Simulator Technician</b>	H170400	Health Science	10	10	10	10	10	10	10	10	10	
<b>Medical Laboratory Assisting (PS)</b>	H170306	Health Science	9	11	11	9	11	11	9	11	11	
<b>Medical Record Transcribing/Healthcare Documentation</b>	H170506	Health Science	9	11	11	9	11	11	9	11	11	
<b>Medical Record Transcribing/Healthcare Documentation ATD</b>	NA	Health Science	10	11	11	10	11	11	10	11	11	
<b>Medical Record Transcribing/Healthcare Documentation ATD</b>	H170508	Health Science	10	11	11	10	11	11	10	11	11	

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<b>Medium and Heavy Duty Truck and Bus Technician</b>	I470605	Transportation, Distribution & Logistics	9	9	9	9	9	9	9	9	9	NAISE003, NAISE016, NAISE020, NAISE021, NAISE023, NAISE025, NAISE26, NAISE031, NAISE033
<b>Medium and Heavy Duty Truck and Bus Technician 1</b>	T650100	Transportation, Distribution & Logistics	9	9	9	9	9	9	9	9	9	NAISE003, NAISE016, NAISE020, NAISE021, NAISE023, NAISE025, NAISE026, NAISE031, NAISE033
<b>Medium and Heavy Duty Truck and Bus Technician 2</b>	T650200	Transportation, Distribution & Logistics	9	9	9	9	9	9	9	9	9	NAISE003, NAISE016, NAISE020, NAISE021, NAISE023, NAISE025, NAISE026, NAISE031, NAISE033
<b>Millwright</b>	I470313	Manufacturing	9	9	9	9	9	9	9	9	9	MSSCN001, NCCER087, NCCER088, NCCER089, NCCER090, NCCER091
<b>Millwright 1</b>	J590400	Manufacturing	9	9	9	9	9	9	9	9	9	MSSCN001, NCCER087, NCCER088
<b>Millwright 2</b>	J590500	Manufacturing	9	9	9	9	9	9	9	9	9	MSSCN001, NCCER089, NCCER090, NCCER091
<b>Motorcycle Service Technology</b>	I470616	Transportation, Distribution & Logistics	10	9	10	10	9	10	10	9	10	
<b>Multimedia Design Technology</b>	B070200	IT	10	10	10	Deleted						
<b>Multimedia Design Technology 1</b>	Y600100	IT	10	10	10	Deleted						
<b>Multimedia Design Technology 2</b>	Y600200	IT	10	10	10	Deleted						
<b>Network Support Services</b>	B078000	IT	9	9	9	9	9	9	9	9	9	CISCO004, CISCO003, COMPT002, COMPT006, COMPT009, MICRO003, MICRO030, MICRO046
<b>Network Systems Administration</b>	B079300	IT	9	9	9	9	9	9	9	9	9	COMPT001, COMPT009, COMPT006, COMPT005, COMPT008, CISCO005, CISCO004, MICRO034, MICRO033, MICRO046, MICRO052, NACSE001
<b>New Media</b>	B077400	IT	9	9	9	Deleted						

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<b>Technology</b>													
<b>Non-Profit Marketing</b>	M200400	Marketing, Sales & Services	9	9	9	9	9	9	Deleted				
<b>Nursery Management</b>	A010616	Agriculture, Food and Natural Resources	9	9	9	9	9	9	9	9	9	FNGLA001	
<b>Optometric Assisting</b>	H170704	Health Science	9	11	11	9	11	11	9	11	11		
<b>Orthopedic Technology</b>	H170800	Health Science	10	10	10	10	10	10	10	10	10		
<b>Painting and Decorating</b>	I460408	Architecture & Construction	9	9	9	9	9	9	9	9	9	NCCER046, NCCER047, NCCER048	
<b>Paramedic</b>	W170206	Health Science	10	10	10	10	10	10	10	10	10	FDMQA014, NREMT004	
<b>Patient Care Technician</b>	H170694	Health Science	10	10	10	10	10	10	10	10	10	FDMQA002	
<b>PC Support Services</b>	B070400	IT	9	9	9	Deleted				COMPT001, COMPT006, COMPT008, MICRO027, MICRO052			
<b>Pest Control Operations (ATD)</b>	A020408	Agriculture, Food and Natural Resources	10	10	10	10	10	10	10	10	10	FDAES002	
<b>Pest Control Operations (ATD)</b>	NA	Agriculture, Food and Natural Resources	10	10	10	10	10	10	10	10	10	FDAES002	
<b>Pharmacy Technician</b>	H170500	Health Science	11	10	10	11	10	10	11	10	10	PTCBD001, NATHA010	
<b>Pharmacy Technician ATD</b>	NA	Health Science	11	10	10	11	10	10	11	10	10	PTCBD001, NATHA010	
<b>Pharmacy Technician ATD</b>	H170700	Health Science	11	10	10	11	10	10	11	10	10	PTCBD001, NATHA010	

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<b>Plumbing Technology</b>	I460513	Architecture & Construction	9	9	9	9	9	9	9	9	9	NCCER026, NCCER069, NCCER070, NCCER071
<b>Power Distribution Technician</b>	X600100	Energy	9	9	9	9	9	9	9	9	9	
<b>Power Equipment Technologies</b>	T410300	Transportation, Distribution & Logistics	NA	NA	NA	NA	NA	NA	8	8	8	EAETC001
<b>Practical Nursing</b>	H170605	Health Science	11	11	11	11	11	11	11	11	11	FDMQA017, NCSBN002
<b>Printing and Graphic Communications</b>	I480201	Arts, A/V Technology & Communication	9	9	9	9	9	9	9	9	9	
<b>Promotional Enterprise</b>	B017100	Business Management & Administrative	9	9	9	9	9	9	9	9	9	
<b>Psychiatric Technology</b>	H181106	Health Science	9	9	9	9	9	9	9	9	9	
<b>Public Works</b>	I470304	Government & Public Administration	9	9	9	9	9	9	9	9	9	
<b>Sewing Technology and Services</b>	V200700	Arts, A/V Technology & Communication	9	9	9	Deleted						
<b>Solar Energy Technician</b>	A600200	Energy	9	9	9	9	9	9	9	9	9	
<b>Solar Photovoltaic System Design, Installation and Maintenance - Entry Level</b>	X600400	Energy	9	9	9	9	9	9	9	9	9	
<b>Solar Thermal System Design, Installation and Maintenance</b>	X600300	Energy	9	9	9	9	9	9	9	9	9	

<b>Title</b>	<b>Program #</b>	<b>Career Cluster</b>	<b>13-14 Math</b>	<b>13-14 Lang</b>	<b>13-14 Read</b>	<b>14-15 Math</b>	<b>14-15 Lang</b>	<b>14-15 Read</b>	<b>15-16 Math</b>	<b>15-16 Lang</b>	<b>15-16 Read</b>	<b>Certification Code Form</b> <a href="http://www.fl DOE.org/core/fileparse.php/5423/urlt/1415ClockHourInvent.pdf">http://www.fl DOE.org/core/fileparse.php/5423/urlt/1415ClockHourInvent.pdf</a>
<b>Sport, Recreation and Entertainment Marketing</b>	M899400	Marketing, Sales & Services	9	9	9	9	9	9	9	9	9	
<b>Sports and Recreation Turf Management</b>	A020607	Agriculture, Food and Natural Resources	9	9	9	9	9	9	9	9	9	FNGLA001
<b>Structural Drafting</b>	I480113	Architecture & Construction	10	9	9	Deleted						NCCER022, NCCER072, NCCER073, NCCER074
<b>Surgical First Assisting ATD</b>	NA	Health Science	10	11	11	10	11	11	10	11	11	
<b>Surgical First Assisting ATD</b>	H170300	Health Science	10	11	11	10	11	11	10	11	11	
<b>Surgical Technology</b>	H170211	Health Science	10	11	11	10	11	11	10	11	11	NSTSA001
<b>Surveying and Mapping</b>	I150203	Architecture & Construction	9	9	9	9	9	9	9	9	9	
<b>Teacher Assisting</b>	P131299	Education & Training	10	10	10	10	10	10	10	10	10	EDTSO001
<b>Technology Support Services</b>	Y100100	IT	10	10	10	10	10	10	10	10	10	
<b>Telecommunications Technology</b>	I470301	Arts, A/V Technology & Communication	9	9	9	9	9	9	9	9	9	
<b>Television Production</b>	I100104	Arts, A/V Technology & Communication	9	9	9	9	9	9	9	9	9	
<b>Tile Setting</b>	I460103	Architecture & Construction	9	9	9	9	9	9	9	9	9	
<b>Transit Technician</b>	T660100	Transportation, Distribution & Logistics	9	9	9	9	9	9	9	9	9	NAISE053, NAISE054, NAISE055, NAISE056, NAISE057, NAISE058, NAISE059, NAISE060

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<b>Transit Technician 1</b>	T660200	Transportation, Distribution & Logistics	9	9	9	9	9	9	9	9	9	NAISE053, NAISE054, NAISE055, NAISE056, NAISE057, NAISE058, NAISE059, NAISE060
<b>Transit Technician 2</b>	T660300	Transportation, Distribution & Logistics	9	9	9	9	9	9	9	9	9	NAISE053, NAISE054, NAISE055, NAISE056, NAISE057, NAISE058, NAISE059, NAISE060
<b>Travel and Tourism Management ATD</b>	NA	Hospitality & Tourism	10	10	10	10	10	10	10	10	10	
<b>Travel and Tourism Management ATD</b>	M811058	Hospitality & Tourism	10	10	10	10	10	10	10	10	10	
<b>Turbine Generator Maintenance</b>	X600500	Energy	9	9	9	9	9	9	9	9	9	
<b>Turf Equipment Technology (ATD)</b>	A020608	Agriculture, Food and Natural Resources	10	10	10	10	10	10	10	10	10	
<b>Turf Equipment Technology (ATD)</b>	NA	Agriculture, Food and Natural Resources	10	10	10	10	10	10	10	10	10	
<b>Unit Treatment and Rehabilitation ATD</b>	H170408	Human Services	10	10	10	10	10	10	10	10	10	
<b>Unit Treatment and Rehabilitation ATD</b>	NA	Human Services	10	10	10	10	10	10	10	10	10	
<b>Upholstery and Furniture Refinishing Technology</b>	I480303	Manufacturing	8	8	8	8	8	8	8	8	8	
<b>Veterinary Assisting</b>	A010512	Agriculture, Food and Natural Resources	9	9	9	9	9	9	9	9	9	FLVMA002



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<b>Web Application Development &amp; Programming</b>	Y700500	IT	9	9	9	9	9	9	9	9	9	
<b>Web Development</b>	Y700100	IT	9	9	9	9	9	9	9	9	9	
<b>Web Programming Services</b>	B079200	IT	11	11	11	Deleted						
<b>Welding Technology</b>	J400400	Manufacturing	NA	NA	NA	NA	NA	NA	9	9	9	AWELD001, NCCER061, NCCER062, NCCER063
<b>Welding Technology Advanced</b>	J400410	Manufacturing	NA	NA	NA	NA	NA	NA	9	9	9	AWELD001, NCCER061, NCCER062, NCCER063
<b>Wireless Telecommunications</b>	I470305	Arts, A/V Technology & Communication	10	10	10	10	10	10	10	10	10	