

STATE BOARD OF EDUCATION
Action Item
April 11, 2014

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

PROPOSED BOARD ACTION

For Approval

AUTHORITY FOR STATE BOARD ACTION

Section 1004.91, Florida Statutes

EXECUTIVE SUMMARY

The amended rule will conform/comply with statutory changes made to Section 1004.91, Florida Statutes, in the 2013 legislative session which clarifies the terminology of career-preparatory instruction, career and technical certificates and to clarify individuals eligible for exemptions.

Supporting Documentation Included: Proposed Rule 6A-10.040, Basic Skills Requirements for Postsecondary Career and Technical Certificate Education Basic Skills and Licensure Exemption List - 2014-2015

Facilitator/Presenter: 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) ~~(e)~~ 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.) ~~Florida College Entry Level Placement Test or Multiple Assessment Placement Service (MAPS), where authorized;~~

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

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

(2) ~~Scale scores corresponding to the~~ Minimum basic skills grade levels in each career education program description adopted under Rule 6A-6.0571, F.A.C., and published annually in the curriculum frameworks and posted on the Department of Education's website <http://www.fldoe.org/workforce/dwdframe/>, by the Commissioner in the document entitled, "Career Education Program Courses Standards" shall be used to determine basic skills levels required for completion of the career and technical education program. ~~Scale score comparison charts are available from the Department of Education, 325 West Gaines Street, Tallahassee, Florida 32399.~~

(3) No change.

(4) After a student completes the remediation prescribed for basic skills deficiencies, the student shall be retested using an alternative form (if possible) of the same examination that was used for initial testing. No student shall be awarded a career and technical certificate of completion until the student achieves the minimum level of basic skills required for that program by the Department of Education. ~~An~~ Adult ~~students~~ with a disability ~~disabilities~~, as defined in Section 1004.02(7), Florida Statutes, may be exempted from meeting the career basic skills grade levels required for completion of the career and technical education program ~~as described in subsection (2) of this rule.~~ Each school district and Florida community college institution must adopt a policy addressing procedures

for exempting eligible ~~adults students~~ with disabilities from the basic skills exit requirements as permitted in Section 1004.91(3), Florida Statutes.

(5) Procedures for students whose first language is not English:

(a) No student is exempt from this rule because of language deficiencies. If one of the approved basic skills assessment instruments cannot be administered, an alternative assessment from subsection (7) of this rule should be used for initial testing. English Language Learners (ELL) as defined in Rule 6A-6.0901, F.A.C., Limited English Proficient students (LEP) shall be given English language instruction and remediation in basic skills as needed to improve proficiency. The math assessment may be measured by one (1) of the designated tests in subsection (1) of this rule.

(b) ~~ELL LEP~~ students must achieve the minimum grade level/scale score or higher on one of the designated tests in subsection (1) of this rule as required by the Department to be awarded a certificate of completion in a career program.

(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 Adult Language Assessment Scales (A-LAS), 1991;

(b) Brigance Employability Skills, 1995;

(c) Brigance Transition Skills Inventory, 2010 Life Skills, 1994;

(d) through (j) No change.

(8) The following students are exempt from taking the initial basic skills assessment required in subsection (1) of this rule: Students who possess a college degree at the associate of applied science level or higher; who have completed or are exempt from the college level communications and computations skills examination (CLAST) pursuant to Section 1008.29, Florida Statutes; who are exempt from the college entry level examination pursuant to Section 1008.29, Florida Statutes; or who have passed a state, national, or industry licensure exam are exempt from 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 - 2014-2015” (insert link) (<http://www.fldoe.org/workforce/dwdframe/rf/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.

Rulemaking Specific Authority 1001.02(1), 1004.91(1), ~~1007.271(3)~~ 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,

BASIC SKILLS AND LICENSURE EXEMPTION LIST 2014-2015

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.).

Title	Program #	Career Cluster	12-13 Math	12-13 Lang	12-13 Read	13-14 Math	13-14 Lang	13-14 Read	14-15 Math	14-15 Lang	14-15 Read	Certification Code Form http://www.fl DOE.org/workforce/perkins/pdf/1314ClockHourInvent.pdf
.NET Application Development & Programming	Y700400	IT	9	9	9	9	9	9	9	9	9	
3-D Animation Technology	I480200	Arts, A/V Technology & Communication	10	10	10	10	10	10	10	10	10	
Accounting Operations	B070110	Business Management & Administrative	9	9	9	9	9	9	10	10	10	AIOPB001
Administrative Office Specialist	B070330	Business Management & Administrative	10	10	10	10	10	10	10	10	10	
Advanced Automotive Service Technology 1	T600100	Transportation, Distribution & Logistics	10	10	10	10	10	10	10	10	10	NIASE002, NIASE008, FLADA001
Advanced Automotive Service Technology 2	T600200	Transportation, Distribution & Logistics	10	10	10	10	10	10	10	10	10	NIASE002, NIASE005, NIASE007, NIASE009, NIASE010, NIASE011, NIASE012, NIASE014, FLADA001
Advanced Automotive Technology	I470604	Transportation, Distribution & Logistics	10	10	10	10	10	10	10	10	10	NIASE002, NIASE005, NIASE007, NIASE008, NIASE009, NIASE010, NIASE011, NIASE012, NIASE014, FLADA001
Advanced Esthetics	D500200	Human Services	8	8	9	8	8	9	8	8	9	
Advanced Floral Design and Management	A120200	Agriculture, Food and Natural Resources	9	9	9	9	9	9	9	9	9	

Title	Program #	Career Cluster	12-13 Math	12-13 Lang	12-13 Read	13-14 Math	13-14 Lang	13-14 Read	14-15 Math	14-15 Lang	14-15 Read	Certification Code Form http://www.fldoe.org/workforce/perkins/pdf/1314ClockHourInvent.pdf
Advanced Water Treatment Technologies	P150509	Food and Agriculture, Natural Resources	9	9	9	9	9	9	9	9	9	
Air Conditioning, Refrigeration and Heating Technology	I470203	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
Air Conditioning, Refrigeration and Heating Technology 1	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
Air Conditioning, Refrigeration and Heating Technology 2	C400200	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
Aircraft Airframe Mechanics	I470612	Transportation, Distribution & Logistics	10	9	10	10	9	10	10	9	10	FEDAA004, FEDAA010
Aircraft Coating and Corrosion Control Technology	T400300	Transportation, Distribution & Logistics	NA	NA	NA	10	9	10	10	9	10	
Aircraft Power Plant Mechanics	I470622	Transportation, Distribution & Logistics	10	9	10	10	9	10	10	9	10	FEDAA004, FEDAA010
Applied Cybersecurity	Y100300	IT	10	9	9	10	9	9	10	9	9	
Applied Information Technology	Y300400	IT	9	9	9	9	9	9	9	9	9	
Applied Welding Technologies	I480500	Manufacturing	9	9	9	9	9	9	9	9	9	AWELD001, NCCER061, NCCER062, NCCER063

Title	Program #	Career Cluster	12-13 Math	12-13 Lang	12-13 Read	13-14 Math	13-14 Lang	13-14 Read	14-15 Math	14-15 Lang	14-15 Read	Certification Code Form http://www.fldoe.org/workforce/perkins/pdf/1314ClockHourInvent.pdf
Architectural Drafting	I480112	Architecture & Construction	10	9	9	Deleted						AMDDA002, AMDDA003, AMDDA004, AMDDA005, ADESK021, ADESK022, ADESK025, ADESK002
Automation & Production Technology	J100100	Manufacturing	9	9	9	9	9	9	9	9	9	MSSCN001
Automotive Collision Repair and Refinishing	I470603	Transportation, Distribution & Logistics	9	9	9	9	9	9	9	9	9	NIASE035, NIASE017, NIASE018, NIASE019, NIASE029, NIASE032
Automotive Collision Repair and Refinishing 1	T400100	Transportation, Distribution & Logistics	9	9	9	9	9	9	9	9	9	NIASE035, NIASE017, NIASE018, NIASE019
Automotive Collision Repair and Refinishing 2	T400200	Transportation, Distribution & Logistics	9	9	9	9	9	9	9	9	9	NIASE035, NIASE029, NIASE032
Automotive Detailing and Reconditioning	I470623	Transportation, Distribution & Logistics	9	9	9	9	9	9	9	9	9	
Automotive Service Technology	I470608	Transportation, Distribution & Logistics	10	9	9	10	9	9	10	9	9	NIASE002, NIASE005, NIASE007, NIASE008, NIASE009, NIASE010, NIASE011, NIASE012, NIASE014, FLADA001
Automotive Service Technology 1	T400700	Transportation, Distribution & Logistics	10	9	9	10	9	9	10	9	9	NIASE002, NIASE007, NIASE008, NIASE010, NIASE014, FLADA001
Automotive Service Technology 2	T400800	Transportation, Distribution & Logistics	10	9	9	10	9	9	10	9	9	NIASE002, NIASE005, NIASE009, NIASE011, NIASE012, FLADA001
Automotive Upholstery and Trim	I480313	Manufacturing	8	8	8	Deleted						
Avionics	I470199	Transportation, Distribution & Logistics	10	10	10	10	10	10	10	10	10	NCATT001, ETAIN006

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Avionics 1	T640100	Transportation, Distribution & Logistics	10	10	10	10	10	10	10	10	10	NCATT001, ETAIN006
Avionics 2	T640200	Transportation, Distribution & Logistics	10	10	10	10	10	10	10	10	10	NCATT001, ETAIN006
Avionics Technology	T400300	Transportation, Distribution & Logistics	10	10	10	10	10	10	10	10	10	
Baking and Pastry Arts	N100600	Hospitality & Tourism	9	9	9	9	9	9	9	9	9	Must have earned either IFSEA001 OR NRAEF003, AND NRAEF001
Barbering	I120402	Human Services	9	9	9	9	9	9	9	9	9	FLDOP001, FLDOP007
Basic X-Ray Machine Operator	H170209	Health Science	10	10	10	10	10	10	Deleted			FDMQA001
Biomedical Equipment Repair Technology	J400100	Manufacturing	NA	NA	NA	NA	NA	NA	10	10	10	
Biomedical Technician	H170206	Health Science	12	10	10	12	10	10	12	10	10	
Boat and Yacht Repair/Refinishing Technology	I490316	Manufacturing	9	9	9	9	9	9	Deleted			
Boat and Yacht Repair/Refinishing Technology 1	J430100	Manufacturing	9	9	9	9	9	9	9	9	9	
Boat and Yacht Repair/Refinishing Technology 2	J430200	Manufacturing	9	9	9	9	9	9	9	9	9	
Boat Building - Wood and Fabricated	I480799	Manufacturing	8	8	8	8	8	8	Deleted			

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Brick and Block Masonry	I463112	Architecture & Construction	9	8	8	9	8	8	9	8	8	NCCER025, NCCER044, NCCER045
Building Construction Technologies	I460401	Architecture & Construction	9	9	9	9	9	9	9	9	9	NCCER008, NCCER027
Building Trades and Construction Design Technology	C100100	Architecture & Construction	9	9	9	9	9	9	9	9	9	NCCER008, NCCER027
Business Computer Programming	B070320	IT	9	9	9	Deleted						COMPT001, MICRO062, MICRO044, MICRO063, MICRO065, SUNMI001
Business Supervision and Management	B060200	Business Management & Administrative	9	9	9	9	9	9	Deleted			
Cabinetmaking	I480704	Architecture & Construction	9	9	9	9	9	9	9	9	9	NCCER002
Carpentry	I460202	Architecture & Construction	9	9	9	9	9	9	9	9	9	NCCER075, NCCER005, NCCER032, NCCER033, NCCER034
Carpentry 1	C510100	Architecture & Construction	9	9	9	9	9	9	9	9	9	NCCER075, NCCER005, NCCER032, NCCER033, NCCER034
Carpentry 2	C510200	Architecture & Construction	9	9	9	9	9	9	9	9	9	NCCER075, NCCER005, NCCER032, NCCER033, NCCER034
Central Service Technology	H170502	Health Science	9	9	9	9	9	9	Deleted			AHCSM001, CBSPD001
Central Sterile Processing Technology - PSAV	H170220	Health Science	9	9	9	9	9	9	9	9	9	AHCSM001, CBSPD001
Clinical Motion Capture Technician	H170200	Health Science	10	10	10	10	10	10	Deleted			

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Clock/Watch Making and Repair	I470408	Manufacturing	9	9	9	Deleted						
Cloud Computing & Virtualization	Y100400	Information Technology	NA	NA	NA	9	9	9	9	9	9	
Commercial and Industrial Insulation	I460407	Architecture & Construction	9	9	9	9	9	9	Deleted			NCCER021, NCCER076, NCCER077, NCCER078
Commercial Art Technology	I480203	Arts, A/V Technology & Communication	9	9	9	9	9	9	9	9	9	
Commercial Art Technology 1	K600100	Arts, A/V Technology & Communication	9	9	9	9	9	9	9	9	9	
Commercial Art Technology 2	K600200	Arts, A/V Technology & Communication	9	9	9	9	9	9	9	9	9	
Commercial Fishing	I490303	Transportation, Distribution & Logistics	9	9	9	9	9	9	9	9	9	
Commercial Foods and Culinary Arts (NEW)	N100500	Hospitality & Tourism	9	9	9	9	9	9	9	9	9	Must earn either IFSEA001 OR NRAEF003 , AND NRAEF001
Commercial Photography Technology	I480204	Arts, A/V Technology & Communication	9	9	9	9	9	9	9	9	9	
Commercial Photography Technology 1	K610100	Arts, A/V Technology & Communication	9	9	9	9	9	9	9	9	9	
Commercial Photography Technology 2	K610200	Arts, A/V Technology & Communication	9	9	9	9	9	9	9	9	9	
Commercial Sign Design and Fabrication	I480202	Manufacturing	9	9	9	Deleted						

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Communication Electronics	I470103	Arts, A/V Technology & Communication	10	9	9	10	9	9	Deleted			
Computer Systems & Information Technology (CSIT)	Y100200	IT	NA	NA	NA	10	9	9	10	9	9	COMPT001, COMPT006, COMPT008
Computer Systems Technology	I470104	IT	10	9	9	Deleted						COMPT001, COMPT009, COMPT006, CISCO003, CISCO004, MICRO033, MICRO046, MICRO052, ETAIN003
Computer Systems Technology 1	J500100	IT	10	9	9	Deleted						COMPT001, COMPT001, COMPT009, COMPT006, CISCO003, CISCO004, MICRO033, MICRO046, MICRO052, ETAIN003
Computer Systems Technology 2	J500200	IT	10	9	9	Deleted						COMPT001, COMPT001, COMPT009, COMPT006, CISCO003, CISCO004, MICRO033, MICRO046, MICRO052, ETAIN003
Concrete Masonry	I463113	Architecture & Construction	9	8	8	9	8	8	Deleted			
Cosmetology	D500100	Human Services	8	8	9	8	8	9	8	8	9	FLDOP002
Court Reporting	B070602	Business Management & Administrative	10	12	12	10	12	12	Deleted			
Court Reporting 1	B700500	Business Management & Administrative	10	12	12	10	12	12	Deleted			

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Court Reporting 2	B700600	Business Management & Administrative	10	12				12	10	12	12	
Court Reporting 3	B700700	Business Management & Administrative	10	12	12	10	12	12	10	12	12	
Court Reporting Transcriptionist	B600100	Business Management & Administrative	NA	NA	NA	NA	NA	NA	10	12	12	
Criminal Justice Operations	P430199	Law, Public Safety & Security	10	10	10	10	10	10	10	10	10	
Customer Assistance Technology	B079100	Business Management & Administrative	9	9	9	9	9	9	9	9	9	
Customer Service Representative	M807060	Marketing, Sales & Services	9	9	9	9	9	9	9	9	9	
Customer Service Technology ATD	M807068	Marketing, Sales & Services	10	10	10	10	10	10	10	10	10	
Customer Service Technology ATD	NA	Marketing, Sales & Services	10	10	10	10	10	10	10	10	10	
Database and Programming Essentials	Y700300	IT	11	11	11	11	11	11	11	11	11	
Database Application Development & Programming	Y700300	IT	9	9	9	9	9	9	9	9	9	
Dental Assisting	H170104	Health Science	10	10	10	10	10	10	Deleted			DANBD001

Title	Program #	Career Cluster	12-13 Math	12-13 Lang	12-13 Read	13-14 Math	13-14 Lang	13-14 Read	14-15 Math	14-15 Lang	14-15 Read	Certification Code Form http://www.fl DOE.org/workforce/perkins/pdf/1314ClockHourInvent.pdf
Dental Assisting (NEW)	H170106	Health Science	NA	NA	NA	NA	NA	NA	10	10	10	DANBD001
Dental Assisting Technology and Management ATD	H170105 H170113	Health Science	10	10	10	10	10	10	10	10	10	
Dental Assisting Technology and Management ATD	NA	Health Science	10	10	10	10	10	10	10	10	10	
Dental Laboratory Technology	H170103	Health Science	9	9	9	9	9	9	9	9	9	
Dietetic Management & Supervision	V200434	Hospitality & Tourism	9	9	9	Deleted						
Digital Audio Production	I100230	Arts, A/V Technology & Communication	9	9	9	9	9	9	9	9	9	
Digital Cinema Production	K100100	Arts, A/V Technology & Communication	NA	NA	NA	9	9	9	9	9	9	
Digital Design	B070600	Arts, A/V Technology & Communication	9	9	9	9	9	9	9	9	9	ADOBE012
Digital Design 1	K700100	Arts, A/V Technology & Communication	9	9	9	9	9	9	9	9	9	ADOBE012
Digital Design 2	K700200	Arts, A/V Technology & Communication	9	9	9	9	9	9	9	9	9	ADOBE012
Digital Media/Multimedia Design	K100200	Arts, A/V Technology & Communication	NA	NA	NA	10	10	10	10	10	10	
Digital Media Technology	Y500100	IT	NA	NA	NA	10	10	10	10	10	10	

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

Title	Program #	Career Cluster	12-13 Math	12-13 Lang	12-13 Read	13-14 Math	13-14 Lang	13-14 Read	14-15 Math	14-15 Lang	14-15 Read	Certification Code Form http://www.fl DOE.org/workforce/perkins/pdf/1314ClockHourInvent.pdf	
Electrical Drafting	I480114	Architecture & Construction	10	9	9	Deleted							AMDDA002, AMDDA003, AMDDA004, AMDDA005, ADESK021, ADESK022, ADESK025, ADESK002
Electrical Line Service Repair	I460303	Energy	9	9	9	9	9	9	9	9	9		
Electrician	I460314	Architecture & Construction	9	9	9	9	9	9	9	9	9		NCCER010, NCCER038, NCCER039, NCCER040
Electricity	I460312	Architecture & Construction	9	9	9	9	9	9	9	9	9		NCCER010, NCCER038, NCCER039, NCCER040
Electrocardiograph Technology	H170208	Health Science	9	9	9	9	9	9	9	9	9		NATHA002, CCINT001, SCFNT001
Electroneurodiagnostic Technology	H170204	Health Science	10	11	11	10	11	11	10	11	11		
Electronic Business Enterprise	B070100	Business Management & Administrative	9	9	9	9	9	9	9	9	9		
Electronic Drafting	I480115	Architecture & Construction	10	9	9	Deleted							AMDDA002, AMDDA003, AMDDA004, AMDDA005, ADESK021, ADESK022, ADESK025, ADESK002
Electronic System Assembly	I470129	Manufacturing	9	9	9	9	9	9	Deleted				
Electronic Technology	I150303	Manufacturing	10	9	9	10	9	9	10	9	9		ETAIN008, ISCET001, ISCET002, NCCER013, NCCER041, NCCER042, NCCER043
Electronic Technology 1	J540100	Manufacturing	10	9	9	10	9	9	10	9	9		ETAIN008, ISCET001, ISCET002, NCCER013, NCCER041, NCCER042, NCCER043
Electronic Technology 2	J540200	Manufacturing	10	9	9	10	9	9	10	9	9		ETAIN008, ISCET001, ISCET002, NCCER013, NCCER041, NCCER042, NCCER043
Emergency Medical Technician (Basic) ATD	NA	Health Science	10	10	10	10	10	10	10	10	10		NREMT001, FDMQA006

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Energy Generation Technician	X600200	Energy	9	9	9	9	9	9	9	9	9	CEWFC001
Energy Technician	X600600	Energy	9	9	9	9	9	9	9	9	9	CEWFD001
Entrepreneurship	M803010	Marketing, Sales & Services	9	9	9	9	9	9	9	9	9	
Family Health Support Worker ATD	NA	Human Services	10	10	10	10	10	10	10	10	10	
Family Health Support Worker ATD	H170205	Human Services	10	10	10	10	10	10	10	10	10	
Fashion Marketing	M801020	Marketing, Sales & Services	9	9	9	9	9	9	9	9	9	
Fashion Technology and Design Services	V200400	Arts, A/V Technology & Communication	9	9	9	9	9	9	9	9	9	
Fashion Technology and Production Services	K500100	Arts, A/V Technology & Communication	NA	NA	NA	NA	NA	NA	10	10	10	
Film Production Equipment Operations	I110112	Arts, A/V Technology & Communication	9	9	9	9	9	9	9	9	9	
Finance	M804011	Finance	9	9	9	9	9	9	9	9	9	
Fire Fighter	P430205	Law, Public Safety & Security	10	10	10	10	10	10	10	10	10	FLSFM002, FLSFM005, FLSFM006
Fire Officer	P430206	Law, Public Safety & Security	10	10	10	Deleted						FLSFM003, FLSFM014
Fire Sprinkler System Technology	I460512	Architecture & Construction	9	9	9	Deleted						

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Floral Design & Marketing (NEW)	A120100	Food and Agriculture, Natural Resources	9	9	9	9	9	9	9	9	9	FLSFA001
Game Simulation/Animation Programming	B082300	IT	10	10	10	10	10	10	10	10	10	
Gasoline Engine Service Technology	I470606	Transportation, Distribution & Logistics	8	8	8	8	8	8	8	8	8	EAETC001
Geospatial/Geographic Information System (GIS) Technology	T860020	IT	10	10	10	10	10	10	10	10	10	
Global Finance	F100110	Finance	9	9	9	9	9	9	9	9	9	
Global Logistics and Supply Chain Technology	T300100	Transportation, Distribution & Logistics	9	9	9	9	9	9	9	9	9	TAFOM001, AMSTL003, MSSCN002
GSA Audio/Video Effects	B082200	IT	10	10	10	10	10	10	10	10	10	
GSA Programming	B082300	IT	10	10	10	10	10	10	10	10	10	
GSA Visual/Design	B082100	IT	10	10	10	10	10	10	10	10	10	
Health Care Services ATD	NA	Health Science	10	10	10	10	10	10	10	10	10	
Health Care Services ATD	H180708	Health Science	10	10	10	10	10	10	10	10	10	
Health Unit Coordinator (PS)	H170513	Health Science	9	10	10	9	10	10	9	10	10	NAHUC001
Heavy Equipment Mechanics	I470302	Transportation, Distribution & Logistics	9	9	9	9	9	9	9	9	9	NAISE003, NAISE016, NAISE020, NAISE021, NAISE023, NAISE025, NAISE026, NAISE031, NAISE033
Heavy Equipment Operation	I490202	Transportation, Distribution & Logistics	8	8	8	8	8	8	8	8	8	NCCER017, NCCER067, NCCER068

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Hemodialysis Technician	H170207	Health Science	10	10	10	10	10	10	10	10	10	
Hospitality and Tourism	M811040	Hospitality & Tourism	9	9	9	9	9	9	9	9	9	
Industrial Distribution and Management	M812040	Marketing, Sales & Services	9	9	9	9	9	9	9	9	9	
Industrial Electricity	I460313	Architecture & Construction	9	9	9	9	9	9	9	9	9	NCCER010, NCCER038, NCCER039, NCCER040
Industrial Machinery Maintenance	I470303	Manufacturing	9	9	9	9	9	9	9	9	9	MSSCN001, NCCER020, NCCER079, NCCER080, NCCER084, NCCER085, NCCER086, NCCER095
Industrial Machinery Maintenance 1	J590100	Manufacturing	9	9	9	9	9	9	9	9	9	MSSCN001, NCCER020, NCCER079, NCCER080, NCCER084, NCCER085, NCCER086, NCCER095
Industrial Machinery Maintenance 2	J590200	Manufacturing	9	9	9	9	9	9	9	9	9	MSSCN001, NCCER020, NCCER079, NCCER080, NCCER084, NCCER085, NCCER086, NCCER095
Industrial Pipefitter	I460514	Architecture & Construction	9	9	9	9	9	9	9	9	9	NCCER023, NCCER049, NCCER050, NCCER051
Industrial Technology	I150603	Manufacturing	9	9	9	9	9	9	9	9	9	MSSCN001
Information Technology	Y300300	IT	9	9	9	Deleted						
Interior Décor Fabrication	V200505	Arts, A/V Technology & Communication	9	9	9	9	9	9	Deleted			
Interior Decorating Services	V200600	Arts, A/V Technology & Communication	9	9	9	9	9	9	9	9	9	
Interior Design Services	V200500	Arts, A/V Technology & Communication	9	9	9	9	9	9	Deleted			

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International Business	B060901	Business Management & Administrative	9	9	9	9	9	9	9	9	9	
International Marketing	M807030	Marketing, Sales & Services	9	9	9	9	9	9	9	9	9	
Java Development & Programming	Y700200	IT	9	9	9	9	9	9	9	9	9	ORACL004 ORACL005
Jewelry Making and Repair	I480602	Manufacturing	9	9	9	9	9	9	9	9	9	JWLRA001
Jewelry Making and Repair 1	J450400	Manufacturing	9	9	9	9	9	9	9	9	9	JWLRA001
Jewelry Making and Repair 2	J450500	Manufacturing	9	9	9	9	9	9	9	9	9	JWLRA001
Landscape Management	A010615	Agriculture, Food and Natural Resources	9	9	9	9	9	9	9	9	9	FNGLA001
Legal Administrative Specialist	B072000	Business Management & Administrative	10	10	10	10	10	10	10	10	10	
Lodging Operations	M607010	Hospitality & Tourism	9	9	9	9	9	9	9	9	9	
Machining	I480503	Manufacturing	9	8	9	9	8	9	9	8	9	MSSCN001, NIFMS011, NIFMS005, NIFMS006
Major Appliance and Refrigeration Repair	I470106	Manufacturing	9	9	9	9	9	9	9	9	9	PRSV A001
Major Appliance and Refrigeration Repair 1	J620100	Manufacturing	9	9	9	9	9	9	9	9	9	PRSV A001
Major Appliance and Refrigeration Repair 2	J620200	Manufacturing	9	9	9	9	9	9	9	9	9	PRSV A001

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Marine Service Technology	I490306	Transportation, Distribution & Logistics	9	9	9	9	9	9	9	9	9	
Marine Service Technology 1	T500100	Transportation, Distribution & Logistics	9	9	9	9	9	9	9	9	9	
Marine Service Technology 2	T500200	Transportation, Distribution & Logistics	9	9	9	9	9	9	9	9	9	
Marketing	M899991	Marketing, Sales & Services	9	9	9	9	9	9	Deleted			
Marketing, Management and Entrepreneurship Principles	M200500	Marketing, Sales & Services	NA	NA	NA	NA	NA	NA	9	9	9	
Marketing Merchandising and Parts Operations	M812031	Marketing, Sales & Services	9	9	9	9	9	9	9	9	9	
Marketing Merchandising and Parts Operations 1	M700100	Marketing, Sales & Services	9	9	9	9	9	9	9	9	9	
Marketing Merchandising and Parts Operations 2	M700200	Marketing, Sales & Services	9	9	9	9	9	9	9	9	9	
Massage Therapy	H120405	Health Science	9	10	10	9	10	10	9	10	10	NBTMB001, DFMQA005, FDMQA011, FASMB001, AMMMA001
Mechanical Drafting	I480116	Architecture & Construction	10	9	9	Deleted						AMDDA002, AMDDA003, AMDDA004, AMDDA005, ADESK021, ADESK022, ADESK025, ADESK002
Medical Administrative Specialist	B070300	Business Management & Administrative	10	10	10	10	10	10	10	10	10	NATHA003

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Medical Assisting	H170503	Health Science	10	10	10	10	10	10	10	10	10	AMAMA001, AMEDT004.
Medical Clinical Laboratory Technician ATD	H170600	Health Science	10	11	11	10	11	11	10	11	11	
Medical Clinical Laboratory Technician ATD	NA	Health Science	10	11	11	10	11	11	10	11	11	
Medical Coder Biller	H170526	Health Science	9	11	11	9	11	11	9	11	11	AHIMA001, AHIMA002, AHIMA003, ACOPC004, ACOPC005, ACOPC006
Medical Coder Biller ATD	NA	Health Science	10	11	11	10	11	11	10	11	11	AHIMA001, AHIMA002, AHIMA003, ACOPC004, ACOPC005, ACOPC006
Medical Coder Biller ATD	H170528	Health Science	10	11	11	10	11	11	10	11	11	AHIMA001, AHIMA002, AHIMA003, ACOPC004, ACOPC005, ACOPC006
Medical Education Simulator Technician	H170400	Health Science	10	10	10	10	10	10	Deleted			
Medical Laboratory Assisting (PS)	H170306	Health Science	9	11	11	9	11	11	9	11	11	
Medical Record Transcribing	H170506	Health Science	9	11	11	9	11	11	9	11	11	
Medical Record Transcribing ATD	NA	Health Science	10	11	11	10	11	11	10	11	11	
Medical Record Transcribing ATD	H170508	Health Science	10	11	11	10	11	11	10	11	11	
Medium and Heavy Duty Truck and Bus Technician	I470605	Transportation, Distribution & Logistics	9	9	9	9	9	9	9	9	9	NAISE003, NAISE016, NAISE020, NAISE021, NAISE023, NAISE025, NAISE26, NAISE031, NAISE033
Medium and Heavy Duty Truck and Bus Technician 1	T650100	Transportation, Distribution & Logistics	9	9	9	9	9	9	9	9	9	NAISE003, NAISE016, NAISE020, NAISE021, NAISE023, NAISE025, NAISE026, NAISE031, NAISE033

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Medium and Heavy Duty Truck and Bus Technician 2	T650200	Transportation, Distribution & Logistics	9	9	9	9	9	9	9	9	9	NAISE003, NAISE016, NAISE020, NAISE021, NAISE023, NAISE025, NAISE026, NAISE031, NAISE033
Millwright	I470313	Manufacturing	9	9	9	9	9	9	9	9	9	MSSCN001, NCCER087, NCCER088, NCCER089, NCCER090, NCCER091
Millwright 1	J590400	Manufacturing	9	9	9	9	9	9	9	9	9	MSSCN001, NCCER087, NCCER088
Millwright 2	J590500	Manufacturing	9	9	9	9	9	9	9	9	9	MSSCN001, NCCER089, NCCER090, NCCER091
Motorcycle Service Technology	I470616	Transportation, Distribution & Logistics	10	9	10	10	9	10	10	9	10	
Multimedia Design Technology	B070200	IT	10	10	10	Deleted						
Multimedia Design Technology 1	Y600100	IT	10	10	10	Deleted						
Multimedia Design Technology 2	Y600200	IT	10	10	10	Deleted						
Network Support Services	B078000	IT	9	9	9	9	9	9	9	9	9	CISCO004, CISCO003, COMPT002, COMPT006, COMPT009, MICRO003, MICRO030, MICRO046
Network Systems Administration	B079300	IT	9	9	9	9	9	9	9	9	9	COMPT001, COMPT009, COMPT006, COMPT005, COMPT008, CISCO005, CISCO004, MICRO034, MICRO033, MICRO046, MICRO052, NACSE001
New Media Technology	B077400	IT	9	9	9	Deleted						
Non-Profit Marketing	M200400	Marketing, Sales & Services	9	9	9	9	9	9	Deleted			

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Nursery Management	A010616	Agriculture, Food and Natural Resources	9	9	9	9	9	9	9	9	9	FNGLA001
Optometric Assisting	H170704	Health Science	9	11	11	9	11	11	9	11	11	
Orthopedic Technology	H170800	Health Science	10	10	10	10	10	10	10	10	10	
Painting and Decorating	I460408	Architecture & Construction	9	9	9	9	9	9	9	9	9	NCCER046, NCCER047, NCCER048
Paramedic	W170206	Health Science	10	10	10	10	10	10	10	10	10	FDMQA006, FDMAA014, NREMT004
Patient Care Technician	H170694	Health Science	10	10	10	10	10	10	10	10	10	FDMQA002
PC Support Services	B070400	IT	9	9	9	Deleted						COMPT001, COMPT006, COMPT008, MICRO027, MICRO052
Pest Control Operations (ATD)	A020408	Agriculture, Food and Natural Resources	10	10	10	10	10	10	10	10	10	FDAES002
Pest Control Operations (ATD)	NA	Agriculture, Food and Natural Resources	10	10	10	10	10	10	10	10	10	FDAES002
Pharmacy Technician	H170500	Health Science	11	10	10	11	10	10	11	10	10	PTCBD001
Pharmacy Technician ATD	NA	Health Science	11	10	10	11	10	10	11	10	10	PTCBD001
Pharmacy Technician ATD	H170700	Health Science	11	10	10	11	10	10	11	10	10	PTCBD001
Plastering	I460409	Architecture & Construction	9	9	9	9	9	9	Deleted			
Plumbing Technology	I460513	Architecture & Construction	9	9	9	9	9	9	9	9	9	NCCER026, NCCER069, NCCER070, NCCER071
Power Distribution Technician	X600100	Energy	9	9	9	9	9	9	9	9	9	

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Practical Nursing	H170605	Health Science	11	11	11	11	11	11	11	11	11	FDMQA017
Precision Metal Fabrication	I480504	Manufacturing	9	9	9	9	9	9	Deleted			
Precision Metal Fabrication 1	J310100	Manufacturing	9	9	9	9	9	9	Deleted			
Precision Metal Fabrication 2	J310200	Manufacturing	9	9	9	9	9	9	Deleted			
Printing and Graphic Communications	I480201	Arts, A/V Technology & Communication	9	9	9	9	9	9	9	9	9	
Promotional Enterprise	B017100	Business Management & Administrative	9	9	9	9	9	9	9	9	9	
Psychiatric Technology	H181106	Health Science	9	9	9	9	9	9	9	9	9	
Public Administration Supervision	P440401	Government & Public Administration	10	10	10	10	10	10	Deleted			
Public Works	I470304	Government & Public Administration	9	9	9	9	9	9	9	9	9	
Radio Broadcasting	I100114	Arts, A/V Technology & Communication	9	9	9	9	9	9	Deleted			
Recreational Vehicle Service Technician	I470698	Transportation, Distribution & Logistics	9	9	9	9	9	9	Deleted			
Refrigeration Technology	I470202	Architecture & Construction	10	9	9	10	9	9	Deleted			
Related Industrial Technology	I469929	Manufacturing	9	9	9	9	9	9	Deleted			

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Retail Food Marketing	M806010	Marketing & Services	9	9	9	9	9	9	Deleted			
Roadway Technician	I460499	Architecture & Construction	9	9	9	Deleted						NCCER053, NCCER054, NCCER055, NCCER056
Roofing	I460410	Architecture & Construction	8	8	8	8	8	8	Deleted			
Sewing Technology and Services	V200700	Arts, A/V Technology & Communication	9	9	9	9	9	9	Deleted			
Sheet Metal Fabrication Technology	I480506	Manufacturing	9	9	9	9	9	9	Deleted			
Sheet Metal Fabrication Technology 1	J360100	Manufacturing	9	9	9	9	9	9	Deleted			
Sheet Metal Fabrication Technology 2	J360200	Manufacturing	9	9	9	9	9	9	Deleted			
Smart Homes/Mobile Electronics	C400300	Architecture & Construction	10	9	9	10	9	9	Deleted			AMDDA002, AMDDA003, AMDDA004, AMDDA005, ADESK021, ADESK022, ADESK025, ADESK002
Solar Energy Technician	A600200	Energy	9	9	9	9	9	9	9	9	9	
Solar Photovoltaic System Design, Installation and Maintenance - Entry Level	X600400	Energy	9	9	9	9	9	9	9	9	9	
Solar Thermal System Design, Installation and Maintenance	X600300	Energy	9	9	9	9	9	9	9	9	9	

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Sport, Recreation and Entertainment Marketing	M899400	Marketing, Sales & Services	9	9	9	9	9	9	9	9	9	
Sports and Recreation Turf Management	A020607	Agriculture, Food and Natural Resources	9	9	9	9	9	9	9	9	9	FNGLA001
Structural Drafting	I480113	Architecture & Construction	10	9	9	Deleted						NCCER022, NCCER072, NCCER073, NCCER074
Structural Steel Work	I480519	Architecture & Construction	8	8	8	8	8	8	Deleted			NSFPS001
Surgical First Assisting ATD	NA	Health Science	10	11	11	10	11	11	10	11	11	
Surgical First Assisting ATD	H170300	Health Science	10	11	11	10	11	11	10	11	11	
Surgical Technology	H170211	Health Science	10	11	11	10	11	11	10	11	11	NSTSA001
Surveying and Mapping	I150203	Architecture & Construction	9	9	9	9	9	9	9	9	9	
Teacher Assisting	P131299	Education & Training	10	10	10	10	10	10	10	10	10	EDTSS001
Technology Support Services	Y100100	IT	NA	NA	NA	10	10	10	10	10	10	
Telecommunications Technology	I470301	Arts, A/V Technology & Communication	9	9	9	9	9	9	9	9	9	
Television Production	I100104	Arts, A/V Technology & Communication	9	9	9	9	9	9	9	9	9	
Tile Setting	I460103	Architecture & Construction	9	9	9	9	9	9	9	9	9	
Transit Technician	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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Transit Technician 1	T660200	Transportation, Distribution & Logistics	9	9	9	9	9	9	9	9	9	NAISE053, NAISE054, NAISE055, NAISE056, NAISE057, NAISE058, NAISE059, NAISE060
Transit Technician 2	T660300	Transportation, Distribution & Logistics	9	9	9	9	9	9	9	9	9	NAISE053, NAISE054, NAISE055, NAISE056, NAISE057, NAISE058, NAISE059, NAISE060
Travel and Tourism Industry Operations	M811053	Hospitality & Tourism	9	9	9	9	9	9	Deleted			
Travel and Tourism Management ATD	NA	Hospitality & Tourism	10	10	10	10	10	10	10	10	10	
Travel and Tourism Management ATD	M811058	Hospitality & Tourism	10	10	10	10	10	10	10	10	10	
Turbine Generator Maintenance	X600500	Energy	9	9	9	9	9	9	9	9	9	
Turf Equipment Technology (ATD)	A020608	Agriculture, Food and Natural Resources	10	10	10	10	10	10	10	10	10	
Turf Equipment Technology (ATD)	NA	Agriculture, Food and Natural Resources	10	10	10	10	10	10	10	10	10	
Unit Treatment and Rehabilitation ATD	H170408	Human Services	10	10	10	10	10	10	10	10	10	
Unit Treatment and Rehabilitation ATD	NA	Human Services	10	10	10	10	10	10	10	10	10	
Upholstery and Furniture Refinishing Technology	I480303	Manufacturing	8	8	8	8	8	8	8	8	8	
Veterinary Assisting	A010512	Agriculture, Food and Natural Resources	9	9	9	9	9	9	9	9	9	FLVMA002

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Web Application Development & Programming	Y700500	IT	9	9	9	9	9	9	9	9	9	
Web Design	B070500	IT	9	9	9	Deleted						
Web Development	Y700100	IT	9	9	9	9	9	9	9	9	9	
Web Programming Services	B079200	IT	11	11	11	Deleted						
Wireless Telecommunications	I470305	Arts, A/V Technology & Communication	10	10	10	10	10	10	10	10	10	