FY2011 Career-Technical Education (CTE) Technical Assessment System Matrix

REQUIRED ASSESSMENTS

State CTE Technical Assessments developed by OSU-CETE and other non-industry test developers including High Schools of Business, Project Lead the Way, and Ohio Super Computer Center.

In most cases, where a State CTE assessment or other proprietary test is listed it is required for use by the related CTE program. There are several cases where new career field content standards are in place, the test no longer aligns with the new content standards and as such the test is listed as "available but not required". CTE programs operating with a course of study based on the older content standards should continue use of the "available but not required" test. All required tests are reportable in EMIS and can be used in the calculation of the state technical skill attainment indicator of performance (2S1).

Certain program areas are beginning to create specific courses that are to be offered as components of the program. Individual courses, for the most part, will have a specific test module that can be treated as an end of course test. A total test benchmark score will be created that is based on student performance across the available end of test course modules for that program. Performance on individual ODE/OSU-CETE course test modules for courses need not be reported in EMIS for technical skill attainment indicator of performance (2S1). In these programs, a combination of end of program tests will comprise the total test. Only student performance on the total test is used in reporting technical skill attainment.

Field Testing of OSU-CETE Tests

Many State CTE tests will be undergoing field testing starting January 2011. Programs are strongly encouraged to have students participate in the field tests as their performance on the tests is critical in determining the quality of test questions as well as setting appropriate benchmark scores. Note that the field tests will be administered free of charge. Because of the field test status of these tests, programs participating in the field tests will not be required to, nor will they be able to, report results in EMIS for the state technical skill attainment indicator of performance (2S1).

Industry Credential and Governmental Licensure Assessments

Among the list of required tests there are options where an industry assessment or governmental licensure assessment may be used in lieu of the State CTE assessment. In the absence of a State CTE assessment, the assessment associated with an industry certificate or governmental licensure program may be the only option available. All such exams have met minimum standards established by the CTE Office and can be reported in EMIS for the calculation of the technical skill attainment indicator of performance (2S1).

RECOMMENDED CREDENTIALS

State or Industry Recognized Certificate or Governmental License Attainment (1STP3).

Any industry certification or governmental licensure earned by a student may be used in reporting information for the "State or Industry Recognized Certificate or License Attainment" indicator of performance (1STP3). The list of credentialing opportunities is <u>not</u> comprehensive and is <u>not</u> intended to limit the credentials that students should strive to earn. Any state or industry-recognized certificate/license that a student obtains in the student's CTE program of concentration can be reported in EMIS for this indicator of performance. The reporting options are simply "Y" and "N".

FAMILY AND CONSUMER SCIENCE END OF COURSE TESTS

The series of Family and Consumer Sciences End of Course Tests have been included at the end of this document. It is highly recommended that Family and Consumer Science programs administer these tests. These valid and reliable tests are a very useful tool that can be used for continuous improvement of the

courses being offered. Because these courses are not classified as workforce development, the tests are not used in calculating the state technical skill attainment indicator of performance (2S1).

CTE Program Code	CTE Program Name	Subject Code	Subject Name	Required Assessments EMIS Code - (Benchmark) *Assessment Vendor* *(Note: Field Tests are not reported in EMIS)*	Recommended Industry Credentials and Governmental Licenses *Credential Sponsor*
Agricultural and Environmental Systems (01)					
N/A	N/A	010001	Environmental and Agricultural Science	N/A	No Others Recommended
N/A	Animal Bioscience and Management	010150	Animal Bioscience	N/A	No Others Recommended
A0	Agribusiness and Production Systems	010301	Agribusiness and Production Systems	Agribusiness and Production Systems 03MP – (TBD) *ODE/Ohio State University-CETE* *Note that this test is comprised of multiple End of Course test modules.* *(Test Modules to be Field Tested 2011)* or CASE Principles of Agricultural Science – Animal may serve in lieu of Animal Science and Technology End of Course Test CASE Principles of Agricultural Science – Plant may serve in lieu of Plant and Horticultural Science End of Course test *Curriculum for Agricultural Science Education (CASE)* *(Cannot be used for the technical skill attainment performance measure (2S1) in FY2011)*	
A1	Agricultural and Industrial Power Technology	010201	Agricultural and Industrial Power	Agricultural and Industrial Power 05MP	Outdoor Power Equipment Technician Equipment and Engine Training Council

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				ODE/Ohio State University-CETE *Note that this test is comprised of multiple End of Course tests.* *ODE/Ohio State University-CETE* *(Test Modules to be Field Tested 2011)*	(EETC) NCCER Certificate of Completion Heavy Equipment National Center for Construction Education and Resources (NCCER)
A2	Animal Science and Management	010901	Animal Science and Management	Animal Science and Management 08MP – (TBD) *Note that this test is comprised of multiple End of Course tests.* *(End of Course tests to be Field Tested 2011)* Principles of Agricultural Science – Animal, only in lieu of Animal Science and Technology *Curriculum for Agricultural Science Education (CASE) may serve in lieu of Animal Science and Technology End of Course test* *(Cannot be used for the technical skill attainment performance measure (2S1) in FY2011)*	Companion Animal Specialist Certification *Pet Industry Joint Advisory Council (PIJAC)* Assistant Lab Animal Technician *American Association for Laboratory Animal Science*
A3	Biotechnology for Food, Plant and Animal	012100	Biotechnology for Food, Plant and Animal Sciences	A&E Biotechnology First Course in the PathwayTest *ODE/Ohio State University-CETE* *(To be Field Tested 2011)* *No Biotechnology Pathway test modules will be created beyond the first course in the pathway.*	No Others Recommended
A4	Food Science and Technology	011001	Food Science and Technology	Science and Technology of Food First Course in the Pathway Test	No Others Recommended

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				ODE/Ohio State University-CETE *(To be Field Tested 2011)* *No Food Science Program test will be created beyond the first course in the pathway.*	
A5	Horticulture	010601	Horticulture	Horticulture 53MP – (TBD) *Note that this test is comprised of multiple End of Course tests.* *(Test Modules to be Field Tested 2011)* Or CASE Principles of Agricultural Science – Plant, may be use in lieu of Plant and Horticultural Science End of Course test *Curriculum for Agricultural Science Education (CASE)* *(Cannot be used for the technical skill attainment performance measure (2S1) in FY2011)*	Ohio Certified Florist *Ohio Florist Association* Certified Turfgrass Professional *Professional Landcare Network* Certified Landscape Technician *Professional Landcare Network* Ohio Certified Nursery Technician *Ohio Nursery and Landscape Association*
A6	Natural Resource Management	010701	Natural Resource Management	Natural Resources and Forest Industry Worker – 39DA – (71) Natural Resources and Resource Conservation – 39DB – (70) *ODE/Ohio State University-CETE* *(All available but not required)*	No Others Recommended
Arts and Communication (02)					
N/A	N/A	340010	Principles of Arts and Communications	N/A	No Others Recommended
B0	Media Arts	340015	Media Arts	Media Arts #TBD –(TBD) *ODE/Ohio State University-CETE*	No Others Recommended

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				(To be Field Tested in 2011)	
B1	Performing Arts	340020	Performing Arts	N/A	No Others Recommended
B2	Visual Design and Imaging	340005	Visual Design and Imaging	Visual Design and Imaging #TBD – (TBD) *ODE/Ohio State University-CETE* *(To be Field Tested in 2011)*	Print Ed Certification *The Graphic Arts and Research Foundation*
Business and Administrative Services (03)					
N/A	N/A	140001	Business and Management Foundation	N/A	No Others Recommended
N/A	N/A	140050	Introduction to Business and Administrative Services	N/A	No Others Recommended
N/A	N/A	140075	Interdisciplinary Career Field Business Concepts	N/A	No Others Recommended
C0	Administrative and Professional Support	140300	Administrative and Professional Support	Administrative Office Technology – 02MA – (61) (electronic) Administrative Office Technology – 02EA – (62) (paper/pencil) *ODE/Ohio State University-CETE* *(All available but not required)*	No Others Recommended
C1	Business Management	140800	Business Management	Business Management – 13MC (57) *ODE/Ohio State University-CETE*	No Others Recommended
C2	Legal Management and Support	140310	Legal Management and Support	N/A	No Others Recommended
C3	Medical Management and Support	140320	Medical Management and Support	N/A	No Others Recommended
Construction Technologies (04)					
N/A	N/A	170005	Construction Technologies	N/A	No Others Recommended

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D0	Brick, Block and Cement Masonry	171004	Brick, Block and Cement Masonry	Masonry – 45DA – (58) *ODE/Ohio State University-CETE* Or NCCER Construction Career Test-Masonry - 170 *National Center for Construction Education and Research (NCCER)*	NCCER Certificate of Completion-Masonry *National Center for Construction Education and Research (NCCER)*
D1	Building and Property Maintenance	171011	Building and Property Maintenance	Building and Property Maintenance – 12EA – (71) *ODE/Ohio State University-CETE* Or NCCER Construction Career Test - Building Technology - 195 *National Center for Construction Education and Research (NCCER)*	NCCER Certificate of Completion-Building Technology National Center for Construction Education and Research (NCCER)
D2	Building Technology	171017	Building Technology	NCCER Construction Career Test - Building Technology - 195 *National Center for Construction Education and Research (NCCER)*	NCCER Certificate of Completion-Building Technology *National Center for Construction Education and Research (NCCER)*
D3	Carpentry	171001	Carpentry	Carpentry – 15MA – (67) (electronic) Carpentry – 15EA – (67) (paper/pencil) *ODE/Ohio State University-CETE* Or NCCER Construction Career Test-Carpentry - 160 *National Center for Construction Education and Research (NCCER)*	NCCER Certificate of Completion-Carpentry *National Center for Construction Education and Research (NCCER)*
D4	Construction Design-Build	171805	Construction Design-Build	N/A	No Others Recommended
D5	Construction—Management	171806	Construction Management	N/A	No Others Recommended

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D6	Custodial Services	171100	Custodial Services	N/A	No Others Recommended
D7	Electrical Trade	171002	Electrical Trades	Electrical Trades – 27MB (electronic) – (66) Electrical Trades – 27EA – (66) (paper/pencil) *ODE/Ohio State University-CETE* Or NCCER Construction Career Test-Electrical Trades (190) *National Center for Construction Education and Research (NCCER)*	NCCER Certificate of Completion-Electrical Trades *National Center for Construction Education and Research (NCCER)*
D8	Environmental Control Technologies	170100	Environmental Control Technologies	Heating, Ventilation, Air-Conditioning and Refrigeration – 07EA – (68) *OSU-CETE* Or Industry Competency Exam (ICE) - 610 *Partnership for Air Conditioning, Heating, Refrigeration Accreditation (PAHRA)* *Or* NCCER Construction Career Test-HVAC/R - 100 *National Center for Construction Education and Research (NCCER)* *Or* Heating Electrical, Air Conditioning Technology Certificate of Achievement - 620 *HVAC Excellence*	Air Conditioning and Refrigeration Institute (ARI) Certificate of Completion *Partnership for Air Conditioning, Heating, Refrigeration Accreditation (PAHRA)* NCCER Certificate of Completion-HVAC/R *National Center for Construction Education and Research (NCCER)*
D9	Heavy Equipment Operations	171003	Heavy Equipment Operations (Construction)	*N/A*	NCCER Certificate of Completion-Heavy Equipment *National Center for Construction Education*

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					and Research (NCCER)
DA	Interior Design Applications	171005	Interior Design Applications	N/A	No Others Recommended
DB	Plumbing and Pipefitting	171007	Plumbing and Pipefitting	N/A	NCCER Certificate of Completion-Plumbing *National Center for Construction Education and Research (NCCER)*
DC	Wood Product Technologies	173601	Wood Product Technologies	Woodlinks Certification - 270 *Woodlinks*	No Others Recommended
Education and Training (05)					
N/A	N/A	350001	Introduction to Education and Training	N/A	No Others Recommended
E0	Early Childhood Education	350201	Early Childhood Education	Early Childhood Education – 16FA – (70) *ODE/Ohio State University-CETE*	No Others Recommended
E1	Teaching Professions	350011	Teaching Professions	State Developed Portfolio (67) *ODE/Ohio State University-CETE* *(Required but will not be used for the technical skill attainment indicator of performance (2S1) in FY2011)* *(Will be required and will be used for the technical skill attainment indicator of performance (2S1) in FY2012)*	No Others Recommended
Engineering and Science Technologies (06)					
N/A	N/A	170007	Engineering Systems	N/A	No Others Recommended
F0	Biomedical Science	175000	Biomedical Science	Principals of Biomedical Science (PBS) Human Body Systems (HBS) Medical Interventions (MI) Biomedical Interventions (BI) *Project Lead The Way* *(All Recommended – To Be Required*	No Others Recommended

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				in FY2012)	
F1	Energy Science	171600	Energy Science	N/A	No Others Recommended
F2	Engineering Science	171815	Engineering Science	Intro to Engineering Design - 300 – (70) *Project Lead The Way* *And* Principles of Engineering - 320 – (70) *Project Lead The Way* *And* Digital Electronics - 340 – (70) *Project Lead The Way* *(Average of all test scores must be greater than or equal to (70) to report passing the test.*	No Others Recommended
		171816	Computer Integrated Manufacturing	Computer Integrated Manufacturing - 360 – (70) *Project Lead The Way*	
		171817	Civil Engineering and Architecture	Civil Engineering and Architecture Part C - 380 – (70) *Project Lead The Way*	
		171818	Fuel Cell Technologies	Fuel Cell Technologies - 240 *Stark State College*	
		171819	Materials Joining Technologies	Materials Joining Technologies - 222 *The Ohio State University*	
		171820	Biotechnical Engineering	Biotechnology Engineering Part C - 390 *Project Lead The Way*	
		171821	Computational Science and Engineering	Computational Science and Engineering - 500 *Ohio Supercomputer Center*	
		171825	Engineering Design	N/A	

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			and Development		
F4	Power Transmission	171402	Power Transmission	N/A	No Others Recommended
F5	Telecommunications	171504	Telecommunications	N/A	No Others Recommended
F3	Engineering Technology	171810	Engineering Technology	N/A	No Others Recommended
Finance (07)					
N/A	N/A	140025	Finance Career Field Course	N/A	No Others Recommended
G0	Accounting	140100	Accounting	Accounting – 01EA – (59) *ODE/Ohio State University-CETE* *(Available but not Required)*	Fundamental Payroll Certification (FPC) *American Payroll Association*
G1	Financial Services	140110	Financial Services	N/A	Fundamental Payroll Certification (FPC) *American Payroll Association*
Government and Public Administration (08)					
H0	Government and Public Administration	360230	Government and Public Administration	N/A	No Others Recommended
Health Science (09)					
N/A	N/A	070005	Health Science	N/A	National Healthcare Foundation Skills Assessment *National Consortium for Health Science and Technology Education*
J0	Biotechnology	074850	Biotechnology	National Healthcare Foundation Skills Assessment - 470 *National Consortium for Health Science and Technology Education*	Certified Phlebotomist *American Society for Clinical Pathology*
J1	Clinical Health Care Services	071100	Clinical Health Care Services	National Healthcare Foundation Skills Assessment - 470 *National Consortium for Health Science and Technology Education*	State Tested Nurse Aide (STNA) *Ohio Department of Health*
J2	Community Health Aide	070906	Community Health Aide	National Healthcare Foundation Skills	Certified Community Heath Worker

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				Assessment - 470 *National Consortium for Health Science and Technology Education*	*Ohio Board of Nursing*
J3	Dental Assistant	070101	Dental Assistant	Dental Assistant – 23MA – (60) Dental Assistant – 23EA – (62) *ODE/Ohio State University-CETE* Or Certified Ohio Dental Assistant (CODA) - 400 *Commission on Ohio Dental Assistant Certification* *Or* National Healthcare Foundation Skills Assessment - 470 *National Consortium for Health Science and Technology Education*	Radiographic License *Ohio State Dental Board*
J4	Dental Lab Technology	070103	Dental Laboratory Technology	National Healthcare Foundation Skills Assessment - 470 *National Consortium for Health Science and Technology Education*	No Others Recommended
J5	Diagnostic Pathway	074820	Diagnostic Pathway	National Healthcare Foundation Skills Assessment - 470 *National Consortium for Health Science and Technology Education*	Certified Phlebotomist *American Society for Clinical Pathology*
J6	Exercise Science/Sports and Recreation Healthcare	070410	Exercise Science/Sports and Recreation Healthcare	National Healthcare Foundation Skills Assessment - 470 *National Consortium for Health Science and Technology Education*	Certified Professional Trainer *NSCA Certification Commission*
J7	Health Information Management Services	074890	Health Information Management Services	National Healthcare Foundation Skills Assessment - 470 *National Consortium for Health Science and Technology Education*	Certified Health Unit Coordinator *National Association of Health Unit Coordinators*

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J8	Health Support Pathway	074840	Health Support Pathway	National Healthcare Foundation Skills Assessment - 470 *National Consortium for Health Science and Technology Education*	No Others Recommended
J9	Health Unit Coordinator	070913	Health Unit Coordinator	National Healthcare Foundation Skills Assessment - 470 *National Consortium for Health Science and Technology Education*	Certified Health Unit Coordinator *National Association of Health Unit Coordinators*
JA	Home Health	070307	Home Health	National Healthcare Foundation Skills Assessment - 470 *National Consortium for Health Science and Technology Education*	State Tested Nurse Aide (STNA) *Ohio Department of Health*
JB	Medical Assistant	070904	Medical Assistant	Medical Assistant – 47FA – (72) *ODE/Ohio State University-CETE* Or National Healthcare Foundation Skills Assessment - 470 *National Consortium for Health Science and Technology Education*	Registered Medical Assistant *American Medical Technologists*
JC	Medical Lab Technology	070203	Medical Laboratory Technology	National Healthcare Foundation Skills Assessment - 470 *National Consortium for Health Science and Technology Education*	Certified Phlebotomist *American Society for Clinical Pathology*
JD	Nurse Assisting	070303	Nurse Assisting	State Tested Nurse Aide (STNA) - 440 *D and S Diversified Technologies*	National Healthcare Foundation Skills Assessment *National Consortium for Health Science and Technology Education*
JE	Optometric Occupations	070603	Optometric Occupations	National Healthcare Foundation Skills Assessment - 470 *National Consortium for Health Science and Technology Education*	No Others Recommended
JF	Patient Care Technician	070994	Patient Care	National Healthcare Foundation Skills	State Tested Nurse Aide (STNA)

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			Technician	Assessment - 470 *National Consortium for Health Science and Technology Education*	*Ohio Department of Health*
JG	Pharmacy Technician	070912	Pharmacy Assisting	National Healthcare Foundation Skills Assessment - 470 *National Consortium for Health Science and Technology Education*	Certified Pharmacy Technician *Pharmacy Technician Certification Board* *(Will be required for 2012)*
JH	Phlebotomy	070204	Phlebotomy	National Healthcare Foundation Skills Assessment - 470 *National Consortium for Health Science and Technology Education*	Certified Phlebotomist *American Society for Clinical Pathology*
JJ	Practical Nursing	070302	Practical Nursing	NCLEX for Licensed Practical/Vocational Nurses - 420 *Ohio Board of Nursing*	National Healthcare Foundation Skills Assessment *National Consortium for Health Science and Technology Education*
JK	Surgical Technology	070305	Surgical Technology	National Healthcare Foundation Skills Assessment - 470 *National Consortium for Health Science and Technology Education*	No Others Recommended
JL	Therapeutic Pathway	074830	Therapeutic Pathway	National Healthcare Foundation Skills Assessment - 470 *National Consortium for Health Science and Technology Education*	State Tested Nurse Aide (STNA) *Ohio Department of Health*
Hospitality and Tourism (10)					
N/A	N/A	330015	Introduction to Hospitality and Tourism	N/A	No Others Recommended
L0	Culinary and Food Service Operations	330005	Culinary and Food Service Operations	Food Management, Production and Service – 34EA – (64) *ODE/Ohio State University-CETE* Or ProStart Certificate of Achievement Final Assessments- 480	Junior Culinarian *American Culinary Federation* ProStart Certificate of Achievement *National Restaurant Association Education Foundation (NRAEF)*

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				National Restaurant Association Education Foundation (NRAEF) (*Required for all ProStart Programs)* *(Passage of both Year 1 Final Assessment + Year 2 Final Assessment is required to report passing the ProStart test)*	ServSafe *National Restaurant Association*
L1	Lodging	330010	Lodging	N/A	No Others Recommended
L2	Travel and Tourism	330020	Travel and Tourism	N/A	No Others Recommended
Human Services (11)					
N/A	N/A	172600	Human Services	N/A	No Others Recommended
M0	Barbering	172601	Barbering	Barbering Examination License - 540 Ohio State Barber Board	No Others Recommended
M1	Cosmetology	172602	Cosmetology	Cosmetology License Examination - 560 Ohio State Board of Cosmetology	No Others Recommended
M2	Family and Community Services	172605	Family and Community Services	N/A	No Others Recommended
Information Technology (12)					
N/A	N/A	140200	Information Technology I	*it*WORKS.OHIO IT Basics – 80MC – (65) *ODE/Ohio State University-CETE*	No Others Recommended
N0	Information Support and Services	140210	Information Support and Services	*it*WORKS.OHIO Information Support Services – 81MC – (60) *ODE/Ohio State University-CETE*	CompTIA A+ Essentials *Computer Technology Industry Association (CompTIA)* CompTIA Network + Certificate *Computer Technology Industry Association (CompTIA)* Internet and Computing Core Certification (IC3) *Certiport, Inc.*

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					International Computer Driving License (ICDL) *ECDL Foundation* Cisco Certified Network Associate (CCNA) *Cisco* Cisco Certified Entry Network Technician (CCENT) *Cisco* Windows Desktop Operating System Certification *Microsoft* Microsoft Certified Desktop Support Technician *Microsoft* Microsoft.NET Framework – Application Development Foundation *Microsoft* Managing & Maintaining a Microsoft Windows Server 2003 Environment *Microsoft*
N1	Interactive Media	140240	Interactive Media	*it*WORKS.OHIO Interactive Media Modules – 84MC – (60) *ODE/Ohio State University-CETE*	No Others Recommended
N2	Network Systems	140220	Network Systems	*it*WORKS.OHIO Network Systems– 82MC – (64) *ODE/Ohio State University-CETE*	CompTIA A+ Essentials *Computer Technology Industry Association (CompTIA)* CompTIA Network + Certificate *Computer Technology Industry Association (CompTIA)* Internet and Computing Core Certification (IC3) *Certiport, Inc.* International Computer Driving License

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					(ICDL) *ECDL Foundation* Cisco Certified Network Associate (CCNA) *Cisco* Cisco Certified Entry Network Technician (CCENT) *Cisco* Windows Desktop Operating System Certification *Microsoft* Microsoft Certified Desktop Support Technician *Microsoft* Microsoft.NET Framework – Application Development Foundation *Microsoft* Managing & Maintaining a Microsoft Windows Server 2003 Environment *Microsoft*
N3	Programming and Software Development	140230	Programming/ Software Development	*it*WORKS.OHIO Programming/Software Development Modules – 83MC – (62) *ODE/Ohio State University-CETE*	No Others Recommended
Law and Public Safety (13)					
N/A	N/A	172812	Public Safety Core	N/A	No Others Recommended
P0	Career Paths for the Law Profession	172810	Career Paths for the Law Profession	N/A	No Others Recommended
P1	Criminal Justice	172802	Criminal Justice	Criminal Justice – 43FA – (75) *ODE/Ohio State University-CETE*	Private Security Certification *Ohio Police Officer Training Commission*
P2	Criminal Science Technologies	172815	Criminal Science Technologies	N/A	No Others Recommended

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P3	Emergency Medical Technician – Secondary	172811	Emergency Medical Technician – Secondary	EMT-B Certificate - 640 Ohio Emergency Medical Services	No Others Recommended
P4	Firefighter Training	172801	Fire Fighter Training	Fire Fighter II Certification - 630 *Ohio Emergency Medical Services*	No Others Recommended
P5	Private Security	172808	Private Security	Criminal Justice – 43FA – (75) *ODE/Ohio State University-CETE*	Private Security Certification *Ohio Police Officer Training Commission*
Manufacturing Technologies (14)					
N/A	N/A	170006	Manufacturing Technologies	N/A	No Others Recommended
N/A	N/A	170360	Manufacturing Operations	N/A	No Others Recommended
R0	Automation and Robotics	170370	Automation and Robotics	N/A	No Others Recommended
R1	Electronics	171503	Electronics	Electronics – 28MA – (58) (electronic) Electronics – 28EA – (58) (paper/pencil) *ODE/Ohio State University-CETE* Or Student Electronics Technician (SET) - 180 *Electronics Technicians Association International (ETAI)*	No Others Recommended
R2	Integrated Systems Technology	171012	Integrated Systems Technology	Industrial Maintenance – 42EA – (55) *ODE/Ohio State University-CETE*	No Others Recommended
R3	Manufacturing Design and Development	171300	Manufacturing Design and Development	Drafting – 26MA – (51) (electronic) Drafting – 26EA – (48) (paper/pencil) *ODE/Ohio State University-CETE*	No Others Recommended
R4	Manufacturing Occupations	172303	Manufacturing Occupations	N/A	No Others Recommended

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R5	Precision Machining	172302	Precision Machining	Precision Machine Technologies – 44EA – (72) *ODE/Ohio State University-CETE*	National Institute of Metalworking Skills Credentialing *National Institute for Metalworking Skills (NIMS)*
R6	Welding and Cutting	172306	Welding and Cutting	Welding – 59EA – (50) *ODE/Ohio State University-CETE* Or Schools Excelling through National Skills Education (SENSE) Level 1 Test - 200 *American Welding Society* *Or* Welding--National Construction Career Test - 260 *National Center for Construction Education and Research (NCCER)*	NCCER Certificate of Completion-Welding *National Center for Construction Education and Research (NCCER)*
Marketing (15)					
N/A	N/A	040805	Introduction to Marketing	N/A	No Others Recommended
N/A	N/A	044100	Introduction to Entrepreneurship	N/A	No Others Recommended
S0	Acquisition and Logistics	041900	Acquisition and Logistics	N/A	No Others Recommended
S1	Entrepreneurship	044110	Entrepreneurship	N/A	No Others Recommended
S2	High School of Business	042010	Leadership (HSB)	Leadership - (75) *High Schools of Business* *(Only Recommended – To Be Required in FY2012)*	No Others Recommended
		042015	Wealth Management (HSB)	Wealth Management - (75) *High Schools of Business* *(Only Recommended – To Be Required in FY2012)*	

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		042020	Principles of Business (HSB)	Principles of Business - (75) *High Schools of Business* *(Only Recommended – To Be Required in FY2012)*	
		042025	Principles of Economics (HSB)	Principles of Economics - (75) *High Schools of Business* *(Only Recommended – To Be Required in FY2012)*	
		042030	Principles of Marketing (HSB)	Principles of Marketing - (75) *High Schools of Business* *(Only Recommended – To Be Required in FY2012)*	
		042035	Principles of Finance (HSB)	Principles of Finance - (75) *High Schools of Business* *(Only Recommended – To Be Required in FY2012)*	
		042040	Principles of Management (HSB)	Principles of Management - (75) *High Schools of Business* *(Only Recommended – To Be Required in FY2012)*	
		042045	Business Strategies (HSB)	Business Strategies - (75) *High Schools of Business* *(Only Recommended – To Be Required in FY2012)*	
S3	Marketing Communications	040815	Marketing Communications	Marketing Communications 37MA (TBD) *ODE/Ohio State University-CETE* *(To be Field Tested 2011)*	Certified e-Marketing Associate *eMarketing Association* National Professional Certification in Customer Service *National Retail Federation Foundation*
S4	Marketing Management	040810	Marketing Management	Marketing Management 36MC (59) *ODE/Ohio State University-CETE*	Certified e-Marketing Associate *eMarketing Association* National Professional Certification in Customer Service

CTE Program Code	CTE Program Name	Subject Code	Subject Name	Required Assessments EMIS Code - (Benchmark) *Assessment Vendor* *(Note: Field Tests are not reported in EMIS)*	Recommended Industry Credentials and Governmental Licenses *Credential Sponsor*
					National Retail Federation Foundation
Transportation Systems (16)					
N/A	N/A	170350	Transportation Systems	N/A	No Others Recommended
T0	Aircraft Maintenance	170401	Aircraft Maintenance	N/A	FAR147 Airframe Certification *Federal Aviation Administration (FAA)* *(To be required in FY 2012)* FAR147 Powerplant Certification *Federal Aviation Administration (FAA)* *(To be required in FY 2012)*
T1	Auto Collision Repair	170301	Auto Collision Repair	Auto Collision Technician – 09EA – (TBD) *ODE/Ohio State University-CETE* Or NATEF End of Program Test –Paint and Refinishing - - 650 *National Automotive Technician Education Foundation (NATEF)*	No Others Recommended
T2	Auto Specialization	170303	Auto Specialization	N/A	NATEF End of Program Tests *National Automotive Technician Education Foundation (NATEF)*
T3	Auto Technology	170302	Auto Technology	Automotive Technican – 10DA – (TBD) *ODE/Ohio State University-CETE* Or NATEF End of Program Test Automotive - 140 *National Automotive Technician Education Foundation (NATEF)* *(Required for "Today's Class" participants)*	No Others Recommended

CTE Program Code	CTE Program Name	Subject Code	Subject Name	Required Assessments EMIS Code - (Benchmark) *Assessment Vendor* *(Note: Field Tests are not reported in EMIS)*	Recommended Industry Credentials and Governmental Licenses *Credential Sponsor*
				(Must take Brakes, Electrical, Engine Performance and Steering & Suspension test modules.) *(Must pass two or more of the four test modules to report passing the End of Program Test.)*	
T4	Aviation Occupations	170400	Aircraft Occupations	N/A	No Others Recommended
T5	Ground Operations	170403	Ground Operations	N/A	No Others Recommended
T6	Maritime Occupations	170801	Maritime Occupations	N/A	No Others Recommended
T7	Medium/Heavy Truck Technician	171200	Medium/Heavy Truck Technician	Medium/Heavy Truck Technician – 24EA – (TBD) *ODE/Ohio State University-CETE*	NATEF End of Program Test *National Automotive Technician Education Foundation (NATEF)*
T8	Power Equipment Technology	173100	Power Equipment Technology	Power Equipment Technology – TBD – (TBD) *ODE/Ohio State University-CETE*	Outdoor Power Equipment Technician *Equipment and Engine Training Council (EETC)*
N/A	N/A	990361	Entrepreneurship	N/A	No Others Recommended
N/A	N/A	990362	Employability Skills	N/A	No Others Recommended

Family and Consumer Science End of Course Tests

Subject Code	Subject Name	Required Assessments EMIS Code - (Benchmark) Assessment Vendor	Recommended Industry Credentials and Governmental Licenses
091300	Manage Transitions	Manage Transitions - 93WB - (74) *ODE/Ohio State University-CETE*	None Recommended
091051	Financial Management II	Financial Management II - 98WB - (74) *ODE/Ohio State University-CETE*	None Recommended
091025	Child Development	Child Development - 97WB - (76) *ODE/Ohio State University-CETE*	None Recommended
091400	Career Search I	Career Search I - 94WB - (74) *ODE/Ohio State University-CETE*	None Recommended

091401	Career Search II	Career Search II - 94WB - (74) *ODE/Ohio State University-CETE*	None Recommended
091077	Healthy and Safe Foods	Healthy and Safe Foods - 95WB - (76) *ODE/Ohio State University-CETE*	None Recommended