

**Louisiana Department of Education
Office of Career and Technical Education
2012-13 Industry-based Certification (IBC) Matrix**

IBC Certification/ Certifying Agency	Career Cluster	Requirements for Students to Earn Industry-Based Certification	Evidence of Certification/ Benefit to Student	*Culminating Course	Required Text	Teacher Certification Requirements	Teacher National Renewal Requirements	Teacher State Renewal Requirements
^R Adobe Certified Associate	Information Technology	<ul style="list-style-type: none"> ▪ Successful completion of at least one of the following four exams. <ul style="list-style-type: none"> • Web Communication • Rich Media Communication • Video Communication • Visual Communication 		<ul style="list-style-type: none"> ▪ Digital Media I or II 		<ul style="list-style-type: none"> ▪ Business CTTIE in specific area 	N/A	N/A
American Culinary Federation Certified Junior Culinarian American Culinary Federation (ACF)/ American Culinary Federation Education Foundation (ACFEF)	Hospitality and Tourism	<ul style="list-style-type: none"> ▪ Graduate from an ACFEF Secondary Certified program. ▪ Pass the National Occupational Competency Testing Institute (NOCTI) written and practical exam. (Passing score of 70% or higher is required on the written and a score of 75% or higher is required on the practical exam.) 	<ul style="list-style-type: none"> ▪ Nationally recognized certificate 	<ul style="list-style-type: none"> ▪ 100361 or 100362 or 100363 Food Services I (1, 2, or 3 credits) OR <ul style="list-style-type: none"> ▪ 100371 or 100372 or 100373 Food Services II (1, 2, or 3 credits) OR <ul style="list-style-type: none"> ▪ 311000 or 311002 or 311003 Culinary Occupations I (1, 2, or 3 credits) OR <ul style="list-style-type: none"> ▪ 311005 or 311012 or 311013 Culinary Occupations II (1, 2, or 3 credits) 		<ul style="list-style-type: none"> ▪ A minimum of (2) years industry experience. ▪ A minimum of (1) industry certification. ▪ A minimum of AS degree in related discipline or an equivalent combination with the above AS degree 	N/A	N/A
American Culinary Federation Secondary Certification/ American Culinary Federation Foundation	Hospitality and Tourism	<ul style="list-style-type: none"> ▪ Must complete 360 hours of contact time including theoretical instruction and skill standard. ▪ If work based learning is included, count ratio of 10 	<ul style="list-style-type: none"> ▪ Nationally recognized certificate 	<ul style="list-style-type: none"> ▪ ACFE secondary certification: required knowledge and skills competencies as set forth in ACFE standards. ▪ Related coursework: 		<ul style="list-style-type: none"> ▪ A minimum of (2) years industry experience. ▪ A minimum of (1) industry 		

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(ACFF)		hrs = 1 contact hour. <ul style="list-style-type: none"> ▪ Must pass ACFF written exam and verify successful completion of ACFF approved sanitation course. (ServeSafe is example of sanitation course) 		<ul style="list-style-type: none"> ▪ 100361 Food Services I (1 credit) ▪ 100362 Food Services I (2 credits) ▪ 100363 Food Services I (3 credits) ▪ 100371 Food Services II (1 credit) ▪ 100372 Food Services II (2 credits) ▪ 100373 Food Services II (3 credits) ▪ 311000 Culinary Occupations I (1 credit) ▪ 311002 Culinary Occupations I (2 credits) ▪ 311003 Culinary Occupations I (3 credits) ▪ 311005 Culinary Occupations II (1 credit) ▪ 311012 Culinary Occupations II (2 credits) ▪ 311013 Culinary Occupations II (3 credits) 		certification. A minimum of AS degree in related discipline or an equivalent combination with the above AS degree		
American Design Drafting Association (ADDA)	Architecture and Construction And Manufacturing And Transportation,	<ul style="list-style-type: none"> ▪ Completion of coursework ▪ Passing score of 75% or higher on the ADDA Certification Examination 	<ul style="list-style-type: none"> ▪ Nationally recognized certificate ▪ Articulated credit 	<ul style="list-style-type: none"> ▪ 311300 Drafting Design Technology I (1 credit) OR <ul style="list-style-type: none"> ▪ 311302 Drafting Design Technology I (2 credits) OR <ul style="list-style-type: none"> ▪ 311303 Drafting Design Technology I (3 credits) OR <ul style="list-style-type: none"> ▪ 311305 Drafting Design 		<ul style="list-style-type: none"> ▪ Technology Education OR <ul style="list-style-type: none"> ▪ Career, Technical Trade and Industrial Education (CTTIE) AND	Every five years	N/A

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	Distribution, and Logistics			Technology II (1 credit) OR <ul style="list-style-type: none"> ▪ 311312 Drafting Design Technology II (2 credits) OR <ul style="list-style-type: none"> ▪ 311313 Drafting Design Technology II (3 credits) OR <ul style="list-style-type: none"> ▪ 110560 Basic Technical Drafting (1 credit) OR <ul style="list-style-type: none"> ▪ 110590 Advanced Technical Drafting (1 credit) OR <ul style="list-style-type: none"> ▪ 110580 Architectural Drafting (1 credit) 		<ul style="list-style-type: none"> ▪ American Design Drafting Association (ADDA) 		
AWS Certified Welder American Welding Society	Agriculture, Food and Natural Resources and Architecture and Construction and Manufacturing and Transportation, Distribution, and Logistics	<ul style="list-style-type: none"> ▪ Complete the approved AWS training course ▪ Pass the Certified Welding Exam sponsored by the AWS ▪ Pass AWS written exam – minimum score of 75% ▪ Pass AWS written exam – minimum score of 90% on safety questions ▪ Successful completion of AWS performance test 	<ul style="list-style-type: none"> ▪ Nationally recognized certificate ▪ Articulated credit 	<ul style="list-style-type: none"> ▪ 313103 Welding I (3 credits) OR <ul style="list-style-type: none"> ▪ 313105 Welding II (1 credit) OR <ul style="list-style-type: none"> ▪ 313106 Welding II (2 credits) OR <ul style="list-style-type: none"> ▪ 313107 Welding II (3 credits) 		<ul style="list-style-type: none"> ▪ Agriculture Education OR <ul style="list-style-type: none"> ▪ Technology Education OR <ul style="list-style-type: none"> ▪ CTTIE AND <ul style="list-style-type: none"> ▪ AWS Certified Welding Educator (CWE) OR <ul style="list-style-type: none"> ▪ AWS Certified Welding Instructor (CWI) 	Submit certification maintenance forms every six months	N/A

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AutoDesk AutoCAD	Architecture and Construction and STEM	<ul style="list-style-type: none"> ▪ Completion of required coursework ▪ Pass AutoCad student certification exam with a minimum score of 80% 	<ul style="list-style-type: none"> ▪ Nationally recognized certificate 	<ul style="list-style-type: none"> ▪ 110590 Advanced Technical Drafting OR <ul style="list-style-type: none"> ▪ 110580 Architectural Drafting OR <ul style="list-style-type: none"> ▪ 311305 or 311312 or 311313 Drafting and Design Technology II (1, 2, or 3 credits) OR <ul style="list-style-type: none"> ▪ Any Project Lead The Way Engineering Course 		<ul style="list-style-type: none"> ▪ Technology Education OR <ul style="list-style-type: none"> ▪ CTTIE AND <ul style="list-style-type: none"> ▪ AutoCad Professional Certification (teacher must be certified in the version that they are using) 	N/A	N/A
AVID Certified User Avid Technology	Arts, A/V Technology, and Communication	<ul style="list-style-type: none"> ▪ Certification is achieved by mastering a comprehensive set of skills on the Avid editing system and passing a rigorous multiple-choice exam. 		Advanced Broadcasting I and II		<ul style="list-style-type: none"> ▪ AVID User Certification 	N/A	The teacher must renew certification annually.
^N Certification for Manufacturing (C4M) Council on Occupational Education	Manufacturing	<ul style="list-style-type: none"> ▪ Successful completion of course work ▪ Successful completion of the written and hands-on assessments 	<ul style="list-style-type: none"> ▪ Nationally and State recognized certificate 	<ul style="list-style-type: none"> ▪ Completion of the full four course sequence listed below ▪ 110256 Manufacturing Process and Team Building ▪ 110257 Manufacturing Tools and Equipment ▪ 110258 Automation in Manufacturing ▪ 110259 Introduction to Fabrication P-Tech and Manufacturing 	FastStart C4M Curriculum	<ul style="list-style-type: none"> ▪ High School Certified Teachers with Manufacturing Experience AND <ul style="list-style-type: none"> ▪ LA FastStart Certification 	N/A	N/A
Canine Care and Training/	Agriculture, Food and Natural	<ul style="list-style-type: none"> ▪ Successful completion of coursework 	<ul style="list-style-type: none"> ▪ State recognized certificate 	<ul style="list-style-type: none"> ▪ 010365 Small Animal Care 		<ul style="list-style-type: none"> ▪ Agriculture AND	N/A	N/A - Lifetime

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Continental Kennel Club (CKC)	Resources	<ul style="list-style-type: none"> ▪ Pass CKC Certification Exams ▪ Pass CKC Performance tasks 		AND <ul style="list-style-type: none"> ▪ 0010380 Canine Care Training 		<ul style="list-style-type: none"> ▪ Canine Care and Training Certification 		
Carpentry National Center for Construction Education and Research (NCCER)	Agriculture, Food and Natural Resources Architecture and Construction Manufacturing Transportation, Distribution, and Logistics	<ul style="list-style-type: none"> ▪ Agriculture, Technology, or Trade & Industrial Education NCCER Carpentry programs: IBC completion of Carpentry Level I: ▪ Successful completion of required NCCER Core modular written and performance exams with a minimum score of 70% ▪ Successful completion of all NCCER Carpentry Level I Fourth Edition modular written and performance exams with a minimum score of 70% 	<ul style="list-style-type: none"> ▪ Nationally recognized transcript ▪ NCCER wallet card ▪ Placed on NCCER National Registry accessible to industry ▪ Articulated credit 	<ul style="list-style-type: none"> ▪ 010603 NCCER Carpentry AG (3 credits) OR ▪ 110703 NCCER Carpentry I TE (3 credits) OR ▪ 313303 NCCER Carpentry I T&I (3 credits) OR ▪ 010602 NCCER Carpentry AG (2 credits) OR ▪ 110702 NCCER Carpentry I TE (2 credits) OR ▪ 313302 NCCER Carpentry I T&I (2 credits) <p>* Core is a prerequisite for course offerings less than 2 credits</p> <ul style="list-style-type: none"> ▪ 010601 NCCER Carpentry AG (1 credit) OR ▪ 110701 NCCER Carpentry I TE (1 credit) 	<ul style="list-style-type: none"> ▪ Current (per NCCER policy) P. Prentice Hall (HSC) Contren® Core Curriculum Introductory Craft Skills Trainee Guide AND ▪ Current (per NCCER policy) P. Prentice Hall (HSC) ▪ Contren® Carpentry Level I Trainee Guide <p>Refer to following website when ordering: http://nccer.pearsonconstructionbooks.com/store/sales.a</p>	<ul style="list-style-type: none"> ▪ NCCER Core AND ▪ NCCER Carpentry Level 1 certified AND ▪ Teacher certified in Agriculture OR ▪ Technology Education OR ▪ CTTIE 	Must submit NCCER Form 200 at least once every two years OR re-attend NCCER Craft Instructor Training Certification Program at least once every two years	N/A

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				OR ▪ 313300 NCCER Carpentry I T&I (1 credit)	<u>spx</u>			
Certified Internet Webmaster (CIW) Foundations National exam/ ProSoft Learning Corp.	Business, Management and Administration And Information Technology	<ul style="list-style-type: none"> ▪ Successful completion of course work. ▪ Successful completion of the Foundations exam. (Pass rate of 63%) 	<ul style="list-style-type: none"> ▪ Nationally recognized certificate ▪ Articulated credit 	<ul style="list-style-type: none"> ▪ 040211 Web Design 		<ul style="list-style-type: none"> ▪ Business Certification 	N/A	The teacher should be certified in the version that is being taught in his/her classes.
Certified Nurse Assistant (CNA)/ Department of Health and Hospitals (DHH)	Health Science	<ul style="list-style-type: none"> ▪ Completion of DHH required coursework ▪ Completion of 100 clinical hours ▪ Pass exam approved by DHH 	<ul style="list-style-type: none"> ▪ Placed on State Nurse Aide Registry Certification System ▪ Articulated Credit 	<ul style="list-style-type: none"> ▪ 090237 Nurse Assistant (2 credits) ▪ 090238 Nurse Assistant (3 credits) 		<ul style="list-style-type: none"> ▪ Registered Nurse (RN) or Licensed Practical Nurse (LPN)* ▪ Current state RN/LPN license ▪ CTTIE ▪ Train the Trainer certificate from DHH <p>* A letter from the Career and Technical supervisor and superintendent stating the name of the RN who will supervise the LPN</p>	N/A	RNs and LPNs must renew license annually <ul style="list-style-type: none"> ▪ Must keep RN license current by completing 5-15 contact hours annually ▪ No contact hours required for LPNs
^R Certified Nursery and	Agriculture, Food and Natural	<ul style="list-style-type: none"> ▪ Successful completion of coursework 	<ul style="list-style-type: none"> ▪ State recognized certificate 	<ul style="list-style-type: none"> ▪ 010452 Horticulture OR		<ul style="list-style-type: none"> ▪ Agriculture OR	N/A	N/A - Lifetime

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Landscape Professional (CNLP)/ Louisiana Nursery and Landscape Association (LNLA)	Resources	<ul style="list-style-type: none"> ▪ Pass all five CNLP Certification Exams Partial completion allowed: <ul style="list-style-type: none"> ▪ Pass any two of the five CNLP certification exams administered by the LNLA 		<ul style="list-style-type: none"> ▪ 311700 Horticulture I OR ▪ 311702 Horticulture I OR ▪ 311703 Horticulture I 		<ul style="list-style-type: none"> ▪ CTTIE AND <ul style="list-style-type: none"> ▪ Certified Nursery and Landscape Professional 		
Child Development Associate(CDA)/ Child Development Associate National Credentialing Program (CDA)	Human Services	<ul style="list-style-type: none"> ▪ Complete Early Childhood Education I & II (this satisfies the 120 hours of formal child care education.) ▪ Must complete 300 hours of experience working with children. ▪ Must prepare Professional Resource File according to “The Child Development Associate Assessment System and Competency Standards” publication. ▪ Passing score of 70% on exam approved by DOE. 	<ul style="list-style-type: none"> ▪ Local diploma endorsement in preparation for nationally recognized certificate. ▪ Certificate issued by DOE upon completion. 	<ul style="list-style-type: none"> ▪ Early Childhood Education I & II using any of the course codes listed below. ▪ 100661 Early Childhood Education I (1 credit) ▪ 100662 Early Childhood Education I (2 credits) ▪ 100663 Early Childhood Education I (3 credits) ▪ 100671 Early Childhood Education II (1 credit) ▪ 100672 Early Childhood Education II (2 credits) ▪ 100673 Early Childhood Education II (3 credits) 		<ul style="list-style-type: none"> ▪ Early Childhood Ed/CDA Advisor ▪ FACS certification with state approved training from DOE. 	3 years (first time); 5 years after that	Attend state or regional update every three years.
Cisco Certified Network Associate	Information Technology	<ul style="list-style-type: none"> ▪ Successful completion of coursework. 	<ul style="list-style-type: none"> ▪ Nationally recognized certificate ▪ Articulated credit 	Cisco curriculum <ul style="list-style-type: none"> ▪ 310850 Networking Basics (2 credits) ▪ 310851 Networking Basics (3 credits) ▪ 310852 Routers/ Routing Basics (2 credits) ▪ 310853 Routers/ Routing Basics (3 credits) ▪ 310854 Switching Basics (2 credits) ▪ 310855 Switching Basics (2 		<ul style="list-style-type: none"> ▪ Business or CTTIE AND <ul style="list-style-type: none"> ▪ Cisco Certified Teacher 		

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				credits) <ul style="list-style-type: none"> ▪ 310856 WAN Technologies ▪ 310857 WAN Technologies 				
Collision Repair and Refinish	Transportation, Distribution and Logistics	<ul style="list-style-type: none"> ▪ Successful completion of all programs in a task area. 	<ul style="list-style-type: none"> ▪ Nationally recognized certificate ▪ Articulated credit 	<ul style="list-style-type: none"> ▪ Auto Body Repair I, II 		<ul style="list-style-type: none"> ▪ CTTIE, Auto Body Repair Instructor ▪ I-CAR Certification 	Every five years	N/A
CompTIA / Network + Certification National exam/ Computing Technology Industry Association	Information Technology	<ul style="list-style-type: none"> ▪ Successful completion of coursework. ▪ Successful completion of exam (Network+) 	<ul style="list-style-type: none"> ▪ Nationally recognized 	<ul style="list-style-type: none"> ▪ 310820 or 310821 Computer Service Technology I (2 or 3 credits) OR ▪ 310822 or 310823 Computer Service Technology II (2 or 3 credits) 		<ul style="list-style-type: none"> ▪ Business or CTTIE <p style="text-align: center;">AND</p> <ul style="list-style-type: none"> ▪ Network + Certification 	N/A	N/A
CompTIA / A+ Certification National exam/ Computing Technology Industry Association	Information Technology	<ul style="list-style-type: none"> ▪ Successful completion of coursework. ▪ Successful completion of two exams. ▪ A+ Core Hardware ▪ A+ OS Technological 	<ul style="list-style-type: none"> ▪ Nationally recognized ▪ Articulated credit 	<ul style="list-style-type: none"> ▪ Computer Electronics I/ II ▪ OR ▪ 310820 Computer Service Technology I (2 credits) ▪ 310821 Computer Service Technology I (3 credits) ▪ 310822 Computer Service Technology II (2 credits) ▪ 310823 Computer Service Technology II (3 credits) 		<ul style="list-style-type: none"> ▪ Business or CTTIE <p style="text-align: center;">AND</p> <ul style="list-style-type: none"> ▪ A+ Certification 	N/A	The teacher should be certified in the version being taught in their class.
Cosmetology Louisiana State Board of Cosmetology	Human Services	<ul style="list-style-type: none"> ▪ Completion of required coursework. ▪ Completion of tenth grade or equivalent. ▪ Graduation from an accredited cosmetology school ▪ Pass a written exam. 	<ul style="list-style-type: none"> ▪ State issued license ▪ Wallet card 	<ul style="list-style-type: none"> ▪ Cosmetology I and II 		<ul style="list-style-type: none"> ▪ Cosmetology Instructor Certification 	N/A	Yearly renewal

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R Customer Service National exam/ National Retail Federation Customer Service	Marketing, Sales and Service	<ul style="list-style-type: none"> ▪ Successful completion of coursework. ▪ Successful completion of exam. 	<ul style="list-style-type: none"> ▪ Nationally recognized certificate 	<ul style="list-style-type: none"> ▪ 041001 Customer Service OR ▪ Any CTE Internship Course OR ▪ Any Cooperative Education Course 		<ul style="list-style-type: none"> ▪ Any CTE or CTTIE certified Teacher OR ▪ Cooperative Education Certification AND ▪ Customer Service Certification 	N/A	N/A
Dental Radiology Louisiana State Board of Dentistry	Health Science	<ul style="list-style-type: none"> ▪ 1) Complete Dental Assistant I ▪ 2) Dental Radiology completion certificates from Medcom/Trainex (DR102, DR103, DR104, DA310R) 		<ul style="list-style-type: none"> ▪ Dental Assistant I 		<ul style="list-style-type: none"> ▪ Expanded Duty Dental Assistant and/or Dental Hygienist 	Dental Assisting National Board (DANP) is not required in Louisiana	Dental Hygienist- every two years with at least 24 hours CEUs with 12 of these in clinical.
Electrical National Center for Construction Education and Research (NCCER)	Agriculture, Food and Natural Resources Architecture and Construction Manufacturing Transportation, Distribution, and Logistics	<ul style="list-style-type: none"> ▪ Agriculture, Technology, and Trade and Industrial Education NCCER Electrical programs: IBC Completion Electrical Level 1: ▪ Successful completion of required NCCER Core modular written and performance exams with a minimum score of 70% ▪ Successful completion of all NCCER Electrical Level 1 2008 Edition modular written and performance exams with a minimum score of 70% 	<ul style="list-style-type: none"> ▪ Nationally recognized certificate ▪ NCCER wallet card ▪ Placed on NCCER National Registry accessible to industry ▪ Articulated credit 	<ul style="list-style-type: none"> ▪ 010703 NCCER Electricity AG (3 credits) OR ▪ 110713 NCCER Electrical I TE (3 credits) OR ▪ 313403 NCCER Electrical I T&I (3 credits) OR ▪ 010702 NCCER Electricity AG (2 credits) OR ▪ 110712 NCCER Electrical I (2 credits) 	<ul style="list-style-type: none"> ▪ Current (per NCCER policy) P. Prentice Hall (HSC) Contren® Core Curriculum Introductory Craft Skills Trainee Guide AND ▪ Current (per NCCER policy) P. Prentice Hall 	<ul style="list-style-type: none"> ▪ NCCER Core AND ▪ NCCER Electrical Level 1 certified AND ▪ Teacher certified in ▪ Agriculture OR ▪ Technology Education OR ▪ CTTIE 	Must submit NCCER Form 200 at least once every two years OR re-attend NCCER Craft Instructor Training Certification Program at least once every two years	N/A

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				OR <ul style="list-style-type: none"> ▪ 313402 NCCER Electrical I T&I (2 credits) * Core is a prerequisite for course offerings less than 2 credits <ul style="list-style-type: none"> ▪ 010701 NCCER Electricity AG (1 credit) OR <ul style="list-style-type: none"> ▪ 110711 NCCER Electrical I TE (1credit) OR <ul style="list-style-type: none"> ▪ 313400 NCCER Electrical I T&I (1 credit) 	(HSC) Contren® Electrical Level I Trainee Guide Refer to following website when ordering: http://nccer.pearsonconstructionbooks.com/store/sales.aspx			
EMT-Basic/ DHH-division of Bureau of Emergency Medical Services (BEMS)	Health Science	<ul style="list-style-type: none"> ▪ Completion of Required BEMS Coursework ▪ Successfully pass the state approved National Registry computer-based didactic and practical exam. ▪ Must be 18 prior to taking the National exam 	<ul style="list-style-type: none"> ▪ Receives certificate of completion from instructor ▪ After national certification, will receive Nationally recognized card ▪ After state application, will receive a State BEMS card ▪ Placed on BEMS registry ▪ Articulated credit 	<ul style="list-style-type: none"> ▪ 090943 EMT-Basic (2 credits) 		Paramedic or RN with EMT-Basic certification (BEMS qualifies instructor) EMT-Basic, if approved by BEMS <ul style="list-style-type: none"> ▪ Verified Cardiopulmonary Resuscitation (CPR) instructor 	Every two years	Every two years, unless BEMS specifies another training 20 yearly hours of “ride time”
Equine Care and Training/	Agriculture, Food and Natural Resources	<ul style="list-style-type: none"> ▪ Successful completion of coursework ▪ Pass LHBPA Certification 	<ul style="list-style-type: none"> ▪ National and state recognized certificate 	<ul style="list-style-type: none"> ▪ 010349 Equine Science 		<ul style="list-style-type: none"> ▪ Agriculture AND ▪ Equine Care 	N/A	N/A - Lifetime

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The Elite Program		Exams <ul style="list-style-type: none"> Pass LHBPA Performance tasks 				and Training Certification		
^N Fashion Design for Costume in Film American Association of Family and Consumer Sciences	Arts, A/V Technology, and Communication Marketing, Sales, and Services	<ul style="list-style-type: none"> Completion of required coursework Must pass PrePAC Assessment for Fashion, Textiles, and Apparel 	<ul style="list-style-type: none"> Nationally recognized certificate 	<ul style="list-style-type: none"> Custom Sewing II or Clothing and Textile Occupations II 	N/A	<ul style="list-style-type: none"> FCS OR <ul style="list-style-type: none"> CTTIE in Clothing and Textile Occupations 		Every 3 years
First Responder/ DHH-division of BEMS	Health Science	<ul style="list-style-type: none"> Completion of Required BEMS Coursework Successfully pass the state approved exam 	<ul style="list-style-type: none"> State BEMS wallet card State BEMS certificate Placed on State BEMS registry Articulated credit 	<ul style="list-style-type: none"> 090710 First Responder (1/2 credit) 090711 First Responder (1 credit) 090712 First Responder (2 credits) 		<ul style="list-style-type: none"> Secondary Certified any discipline with First Responder Instructor Certification (BEMS qualifies instructor) Verified CPR instructor 	Every two years	Every two years, unless BEMS specifies additional training.
Four Stroke Technician/ Equipment and Engine Training Council (EETC)	Agriculture, Food and Natural Resources Architecture and Construction Manufacturing Transportation, Distribution, and Logistics	<ul style="list-style-type: none"> Successful completion of coursework Pass EETC Certification Exam 	<ul style="list-style-type: none"> Nationally recognized certificate Articulated credit 	<ul style="list-style-type: none"> 0010303 Agriscience III AND 010346 Small Engines Applications 		<ul style="list-style-type: none"> Agriculture OR <ul style="list-style-type: none"> CTTIE AND <ul style="list-style-type: none"> Outdoor Power Equipment four stroke Technician 	N/A - Lifetime	N/A
Heating, Ventilation and Air Conditioning (HVAC)	Agriculture, Food and Natural	IBC HVAC Excellence Heating, Electrical, Air Conditioning	<ul style="list-style-type: none"> HVAC Excellence certificate 	<ul style="list-style-type: none"> 310100 Air Conditioning Refrigeration I (1 credit) 		Successfully pass the Certified	CMHE certification shall remain in	N/A

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HVAC Excellence	Resources Architecture and Construction Manufacturing Transportation, Distribution, and Logistics	Technology for (H.E.A.T.) and H.E.A.T. + Successful completion of an initial H.E.A.T. 100 question exam with a minimum score of 70% provided by HVAC Excellence AND Successful comprehensive end of H.E.A.T + 100 question exam with a minimum score of 70% provided by HVAC Excellence		OR <ul style="list-style-type: none"> ▪ 310102 Air Conditioning Refrigeration I (2 credits) OR <ul style="list-style-type: none"> 310103 Air Conditioning Refrigeration I (3 credits) 		Master HVACR Educator (CMHE) Capstone exam	effect as long as the certified educator continues in uninterrupted service with no more than a two- year sabbatical, as an HVACR educator CMHE certification shall remain in effect as long as the certified educator continues in uninterrupted service with no more than a two- year sabbatical, as an HVACR educator	
Heating, Ventilation and Air Conditioning (HVAC) National Center for Construction Education and Research (NCCER)	Agriculture, Food and Natural Resources Architecture and Construction Manufacturing Transportation, Distribution, and Logistics	NCCER IBC Completion of HVAC Level I: <ul style="list-style-type: none"> ▪ Successful completion of required NCCER Core modular written and performance exams with a minimum score of 70% ▪ Successful completion of all NCCER HVAC Level 1 2007 Edition modular written and performance exams with a minimum score of 70% 	<ul style="list-style-type: none"> ▪ Nationally recognized certificate ▪ NCCER wallet card ▪ Placed on NCCER National Registry accessible to industry ▪ Articulated credit NCCER IBC available ONLY when NCCER material is used as the	<ul style="list-style-type: none"> ▪ 310100 Air Conditioning Refrigeration I (1 credit) OR <ul style="list-style-type: none"> ▪ 310102 Air Conditioning Refrigeration I (2 credits) OR <ul style="list-style-type: none"> 310103 Air Conditioning Refrigeration I (3 credits) 	<ul style="list-style-type: none"> ▪ Current (per NCCER policy) P. Prentice Hall (HSC) Contren® Core Curriculum Introductory Craft Skills Trainee Guide AND <ul style="list-style-type: none"> ▪ Current (per 	<ul style="list-style-type: none"> ▪ NCCER Core AND ▪ NCCER HVAC Craft Instructor AND <ul style="list-style-type: none"> ▪ Teacher certified in CTTIE 	Must submit NCCER Form 200 at least once every two years OR Re-attend NCCER Craft Instructor Training Certification Program at least once every two	

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			primary text and course is taught by an NCCER certified instructor		NCCER policy) P. Prentice Hall (HSC) Contren® HVAC Level I Trainee Guide Refer to following website when ordering: http://nccer.pearsonconstructionbooks.com/store/sales.aspx		years	
R Horticulturist License/ Louisiana Department of Agriculture and Forestry (LDAF)	Agriculture, Food and Natural Resources	<ul style="list-style-type: none"> ▪ Successful completion of coursework ▪ Pass State License Exam ▪ Must be 18 years old Partial completion allowed: <ul style="list-style-type: none"> ▪ Complete coursework with grade of A or B ▪ 90 hours experience in Horticulture industry 	<ul style="list-style-type: none"> ▪ State recognized certificate and license 	<ul style="list-style-type: none"> ▪ 010452 Horticulture OR ▪ 311700 Horticulture I OR ▪ 311702 Horticulture I OR ▪ 311703 Horticulture I 		<ul style="list-style-type: none"> ▪ Agriculture OR ▪ CTTIE AND ▪ LA Horticulturist State License 	N/A	Annual
IC ³ International exam/ Certiport	Business, Management and Administration And Information Technology	<ul style="list-style-type: none"> ▪ Successful completion of course work. ▪ Successful completion of three exams. <ol style="list-style-type: none"> 1. Computing Fundamentals 2. Key Applications 3. Living Online 	<ul style="list-style-type: none"> ▪ Internationally recognized certificate ▪ Articulated credit 	<ul style="list-style-type: none"> ▪ 040401 Intro to BCA OR ▪ 040220 Computer Tech. Literacy OR ▪ 040206 Computer Multi-Media Presentations OR ▪ 040207 Desktop 		<ul style="list-style-type: none"> ▪ Business Certification AND ▪ IC³ (IC³ not required if the teacher holds a MOS, Word and Excel) 	N/A	The teacher should be certified in the version that is being taught in his/her classes.

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				Publishing OR ▪ 040407 Telecommunications				
Intuit QuickBooks Certified User/ Real World Training	Finance	<ul style="list-style-type: none"> ▪ Successful completion of coursework. ▪ Successful completion of the Exam (Intuit QuickBooks Certified User) 	<ul style="list-style-type: none"> ▪ Nationally recognized Certificate 	<ul style="list-style-type: none"> ▪ 040101 Accounting I OR ▪ 040104 Accounting II 		<ul style="list-style-type: none"> ▪ Business Certification AND ▪ Intuit QuickBooks Certified User 	N/A	N/A
^R Landscape Contractor/ Louisiana Department of Agriculture and Forestry (LDAF)	Agriculture, Food and Natural Resources	<ul style="list-style-type: none"> ▪ Successful completion of coursework ▪ Pass State License Exam ▪ Must be 18 years old <p>Partial completion allowed:</p> <ul style="list-style-type: none"> ▪ Complete coursework with grade of A or B ▪ 90 hours experience in Landscape industry 	<ul style="list-style-type: none"> ▪ State recognized certificate and license 	<ul style="list-style-type: none"> ▪ 010452 Horticulture OR ▪ 311700 Horticulture I OR ▪ 311702 Horticulture I OR ▪ 311703 Horticulture I 		<ul style="list-style-type: none"> ▪ Agriculture OR ▪ CTTIE AND ▪ LA Landscape Contractor License 	N/A	Annual
Licensed Barber Louisiana Board of Barbers	Human Services	<ul style="list-style-type: none"> ▪ Complete required coursework ▪ Pass licensure exam 	<ul style="list-style-type: none"> ▪ State issued license 	<ul style="list-style-type: none"> ▪ 312912 Barbering I (2 credits) OR ▪ 312922 Barbering II (2 credits) OR ▪ 312932 Barbering III (2 credits) OR ▪ 312942 Barbering IV (2 credits) 		<ul style="list-style-type: none"> ▪ Barber Instructor Certification 	N/A	Yearly renewal
^N Literary Braille Transcriber/	<ul style="list-style-type: none"> ▪ Human Services 	<ul style="list-style-type: none"> • Completion of required coursework 	<ul style="list-style-type: none"> ▪ Nationally recognized certificate 	<ul style="list-style-type: none"> ▪ 080902 Rules of Braille and the Literary Braille 	Current National	<ul style="list-style-type: none"> ▪ Blind &/or 	N/A	N/A

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National Federation of the Blind		<ul style="list-style-type: none"> • Submit a 35-page trial manuscript to the National Library Service for the Blind and Physically Handicapped (Passing score of 80 points or higher is required). 		Code <ul style="list-style-type: none"> ▪ AND ▪ 080903 Basic Nemeth Code and the Computer Braille Code 	Federation of the Blind Instruction Manual, English Braille, American Edition 2002 Revision and Drills Reproduced in Braille. Refer to following website http://www.nfb.org/nfb/Braille_Transcribing.asp?SnID=616648146#Instructional	Partially Sighted AND <ul style="list-style-type: none"> ▪ Certified Literary Braille Transcriber 		
Meat Processing/ Louisiana Meat Processors Association	Agriculture, Food and Natural Resources	<ul style="list-style-type: none"> ▪ Pass the state approved Meat Processing course ▪ Pass Certification exam with a minimum score 80% 	<ul style="list-style-type: none"> ▪ State recognized certificate 	<ul style="list-style-type: none"> ▪ 010326 Meat Processing 	N/A	<ul style="list-style-type: none"> ▪ Agriculture AND ▪ Receive LAMPA Approval 	N/A	N/A- Lifetime
R Microsoft Office Specialist (MOS) Versions 2003, 2007, or 2010 International exam/ Microsoft and Certiport	Business, Management and Administration And Information Technology	<ul style="list-style-type: none"> ▪ Successful completion of coursework, to include Word, Excel, Access, Outlook and PowerPoint. ▪ Successful completion of at least one of the following exams: <ul style="list-style-type: none"> • Word Specialist 	<ul style="list-style-type: none"> ▪ Internationally recognized certificate ▪ Articulated credit 	<ul style="list-style-type: none"> ▪ 040400 Business Computer Applications AND/OR <ul style="list-style-type: none"> ▪ 040203 Word Processing AND/OR		<ul style="list-style-type: none"> ▪ Business Certification AND ▪ Required: Specialist Level in the corresponding exam 	N/A	The teacher should be certified in the version that is being taught in his/her classes.

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		<ul style="list-style-type: none"> • Excel Specialist • PowerPoint Specialist • Access Specialist • Outlook Specialist 		<ul style="list-style-type: none"> ▪ 040201 Administrative Support Occupations 				
^R National Academy of Finance (NAF) National exam by NAF	Finance	<ul style="list-style-type: none"> ▪ Successful completion of course work, as defined by NAF. ▪ Successful completion of NAF exams. 	<ul style="list-style-type: none"> ▪ Certificate 	<ul style="list-style-type: none"> ▪ NAF Finance courses ▪ 080620 Financial Services ▪ 080610 Business Economics ▪ 080630 Financial Planning ▪ 080650 Insurance ▪ 080660 Business in a Global Economy ▪ 080685 Entrepreneurship ▪ 080670 Principles of Finance ▪ 080640 Ethics in Business ▪ 080691 Managerial Accounting ▪ 080671 Advanced Finance 		<ul style="list-style-type: none"> ▪ Business or Marketing Certification 	NA	N/A
NCCER Construction Technology	Agriculture, Food and Natural Resources Architecture and Construction Manufacturing	IBC Completion of Construction Technology Level 1: <ul style="list-style-type: none"> ▪ Successful completion of required NCCER Core modular written and 	<ul style="list-style-type: none"> ▪ Nationally recognized certificate ▪ NCCER wallet card ▪ Placed on NCCER National Registry accessible to industry credit 	<ul style="list-style-type: none"> ▪ Course under construction 	<ul style="list-style-type: none"> ▪ Current (per NCCER policy) P. Prentice Hall (HSC) Contren® Core 	<ul style="list-style-type: none"> ▪ Teacher certified in Technology Education <p>AND</p> <ul style="list-style-type: none"> ▪ NCCER Core 	Must submit NCCER Form 200 at least once every two years OR re-attend NCCER Craft Instructor	N/A

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	Transportation, Distribution, and Logistics	performance exams with a minimum score of 70% <ul style="list-style-type: none"> ▪ Successful completion of all NCCER Construction Technology Level 1, 2006 Edition modular written and performance exams with a minimum score of 70% 			Curriculum Introductory Craft Skills Trainee Guide AND <ul style="list-style-type: none"> ▪ Current (per NCCER policy) P. Prentice Hall (HSC) Contren® Construction Technology Level I Trainee Guide Refer to following website when ordering: http://nccer.pearsonconstructionbooks.com/store/sales.aspx	AND <ul style="list-style-type: none"> ▪ NCCER Construction Technology certified 	Training Certification Program at least once every two years	
NCCER Industrial Maintenance	Agriculture, Food and Natural Resources Architecture and Construction Manufacturing Transportation, Distribution, and Logistics	IBC Completion of Industrial Maintenance Level 1: <ul style="list-style-type: none"> ▪ Successful completion of required NCCER Core modular written and performance exams with a minimum score of 70% ▪ Successful completion of all NCCER Industrial Maintenance Level 1, 2007 	<ul style="list-style-type: none"> ▪ Nationally recognized certificate ▪ NCCER wallet card ▪ Placed on NCCER National Registry accessible to industry 	<ul style="list-style-type: none"> ▪ Course under construction 	<ul style="list-style-type: none"> ▪ Current (per NCCER policy) P. Prentice Hall (HSC) Contren® Core Curriculum Introductory Craft Skills Trainee Guide 	<ul style="list-style-type: none"> ▪ NCCER Core AND ▪ NCCER Industrial Maintenance certified AND ▪ Teacher certified in Agriculture OR 	Must submit NCCER Form 200 at least once every two years OR re-attend NCCER Craft Instructor Training Certification Program at least once every two	N/A

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		Edition modular written and performance exams with a minimum score of 70%			AND <ul style="list-style-type: none"> ▪ Current (per NCCER policy) P. Prentice Hall (HSC) Contren® Industrial Maintenance Level I Trainee Guide Refer to following website when ordering: http://nccer.pearsonconstructionbooks.com/store/sales.aspx	<ul style="list-style-type: none"> ▪ Technology Education OR <ul style="list-style-type: none"> ▪ CTTIE 	years	
NCCER Insulating	Agriculture, Food and Natural Resources Architecture and Construction Manufacturing Transportation, Distribution, and Logistics	IBC Completion of Insulating Level 1: <ul style="list-style-type: none"> ▪ Successful completion of required NCCER Core modular written and performance exams with a minimum score of 70% ▪ Successful completion of all NCCER Insulating Level 1, 2006 Edition modular written and performance exams with a minimum score of 70% 	<ul style="list-style-type: none"> ▪ Nationally recognized certificate ▪ NCCER wallet card ▪ Placed on NCCER National Registry accessible to industry 	<ul style="list-style-type: none"> ▪ Course under construction 	<ul style="list-style-type: none"> ▪ Current (per NCCER policy) P. Prentice Hall (HSC) Contren® Core Curriculum Introductory Craft Skills Trainee Guide AND <ul style="list-style-type: none"> ▪ Current (per NCCER policy) P. 	<ul style="list-style-type: none"> ▪ NCCER Core AND <ul style="list-style-type: none"> ▪ NCCER Insulating AND <ul style="list-style-type: none"> ▪ Teacher certified in <ul style="list-style-type: none"> ▪ Agriculture OR <ul style="list-style-type: none"> ▪ Technology Education OR <ul style="list-style-type: none"> ▪ CTTIE 	Must submit NCCER Form 200 at least once every two years OR re-attend NCCER Craft Instructor Training Certification Program at least once every two years	N/A

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					Prentice Hall (HSC) Contren® Insulating Level I Trainee Guide Refer to following website when ordering: http://nccer.pearsonconstructionbooks.com/store/sales.aspx			
NCCER Plumbing	Agriculture, Food and Natural Resources Architecture and Construction Manufacturing Transportation, Distribution, and Logistics	IBC Completion of Plumbing Level 1: <ul style="list-style-type: none"> ▪ Successful completion of required NCCER Core modular written and performance exams with a minimum score of 70% ▪ Successful completion of all NCCER Plumbing Level 1, 2005 Edition modular written and performance exams with a minimum score of 70% 	<ul style="list-style-type: none"> ▪ Nationally recognized certificate ▪ NCCER wallet card ▪ Placed on NCCER National Registry accessible to industry <p>NCCER IBC available ONLY when NCCER material is used as the primary text and course is taught by an NCCER certified instructor</p>	<ul style="list-style-type: none"> ▪ 312503 Plumbing I (3 credits) ▪ 312502 Plumbing I (2 credits) <p>OR</p> <p>* Core is a prerequisite for course offerings less than 2 credits</p> <ul style="list-style-type: none"> ▪ 321500 Plumbing I (1 credit) 	<ul style="list-style-type: none"> ▪ Current (per NCCER policy) P. Prentice Hall (HSC) Contren® Core Curriculum Introductory Craft Skills Trainee Guide <p>AND</p> <ul style="list-style-type: none"> ▪ Current (per NCCER policy) P. Prentice Hall (HSC) Contren® Plumbing Level I Trainee 	<ul style="list-style-type: none"> ▪ NCCER Core <p>AND</p> <ul style="list-style-type: none"> ▪ NCCER Plumbing certified <p>AND</p> <ul style="list-style-type: none"> ▪ Teacher certified in CTTIE 	Must submit NCCER Form 200 at least once every two years OR re-attend NCCER Craft Instructor Training Certification Program at least once every two years	N/A

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					Guide Refer to following website when ordering: http://nccer.pearsonconstructionbooks.com/store/sales.aspx			
^N National Institute for Metalworking Skills (NIMS)	Manufacturing	<ul style="list-style-type: none"> ▪ Completion of required coursework for Machining Level I ▪ Must pass a performance test and a theory test 	<ul style="list-style-type: none"> ▪ Nationally recognized certificate 	<ul style="list-style-type: none"> ▪ Industrial Machine Shop I 	NIMS Precision Machining Technology, 1st Edition	<ul style="list-style-type: none"> ▪ NIMS Certified AND <ul style="list-style-type: none"> ▪ CTTIE Certified OR <ul style="list-style-type: none"> ▪ Tech Ed Certified 	N/A	N/A
Oracle Internet Academy National exam/ Oracle USA	Information Technology	<ul style="list-style-type: none"> ▪ Successful completion of coursework. ▪ Test 1: Introduction to Oracle 9i:SQL (Pass rate of 70%) ▪ Test 2: Program with PL/SQL (Pass of 70%) 	<ul style="list-style-type: none"> ▪ Nationally recognized certificate ▪ Articulated credit 	<ul style="list-style-type: none"> ▪ 080501 Database Design and Programming—Test 1 ▪ 080531 Database Programming with PL/SQL—Test 2 		<ul style="list-style-type: none"> ▪ Business OR <ul style="list-style-type: none"> ▪ Marketing Certification AND <ul style="list-style-type: none"> ▪ Oracle Certification 		The teacher should be certified in the version that is being taught in his/her classes.
Pharmacy Technician/ Louisiana Pharmacy Board (LPB)	Health Science	Student Requirements: <ul style="list-style-type: none"> ▪ Must be 18 by July 1 of graduating year. ▪ Must have a minimum overall GPA of 2.5 and minimum GPA of 3.0 in math and science. ▪ Must have a minimum ACT of 20 or GPA of 3.2 if ACT 	<ul style="list-style-type: none"> ▪ Certificate of course completion from LDE ▪ After the LPB receives a copy of the certificate of completion, the student is issued a Pharmacy Technician Candidate Registration 	<ul style="list-style-type: none"> ▪ 090009 Pharmacy Technician (1 credit) 		<ul style="list-style-type: none"> ▪ Valid secondary mathematics or science certification, or CTTIE in Health Occupations ▪ Attend Super 	PCTB Exam – lifetime (must earn 20 contact hours to recertify every two years)	Must be renewed annually by June 30

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		<p>not taken. Partial certification is given upon:</p> <ul style="list-style-type: none"> ▪ If Pass Assured is used, then student must complete the Pass Assured course work and exams with 80% or better. ▪ If Pass Assured is not used, then student must pass the approved DOE curriculum with 80% or better. <p>Full certification is given upon:</p> <ul style="list-style-type: none"> ▪ 600 hours of internship through Louisiana Board of Pharmacy. ▪ Successfully pass the National Pharmacy Technician Certification Board (PTCB) exam. 	<ul style="list-style-type: none"> ▪ After the national PTCB exam, receives nationally recognized certificate ▪ After completion of required practical work hours and passing a board-approved exam, receives Louisiana Pharmacy Technician Certificate and placed on state registry 			<p>Summer Institute (SSI) Pharmacy Technician course</p> <ul style="list-style-type: none"> ▪ Pass the PTCB exam within one year of SSI course 		
<p>Pipefitting</p> <p>National Center for Construction Education and Research (NCCER)</p>	<p>Agriculture, Food and Natural Resources</p> <p>Architecture and Construction</p> <p>Manufacturing</p> <p>Transportation, Distribution, and Logistics</p>	<p>IBC Completion Pipefitting Level 1:</p> <ul style="list-style-type: none"> ▪ Successful completion of required NCCER Core modular written and performance exams with a minimum score of 70% ▪ Successful completion of all NCCER Pipefitting Level 1 2006 Edition modular written and performance exams with a minimum score of 70% 	<ul style="list-style-type: none"> ▪ Nationally recognized certificate ▪ NCCER wallet card ▪ Placed on NCCER National Registry accessible to industry ▪ credit 	<ul style="list-style-type: none"> ▪ 010803 NCCER Pipe Fitter I AG (3 credits) OR ▪ 11073 NCCER Pipe Fitter I TE (3 credits) OR ▪ 313603 NCCER Pipe Fitter I T&I (3 credits) OR ▪ 010802 NCCER Pipe Fitter I AG (2 credits) OR ▪ 110732 NCCER Pipe Fitter I TE (2 credits) 	<ul style="list-style-type: none"> ▪ Current (per NCCER policy) P. Prentice Hall (HSC) Contren® Core Curriculum Introductory Craft Skills Trainee Guide AND ▪ Current (per NCCER 	<ul style="list-style-type: none"> ▪ NCCER Core AND ▪ NCCER Pipefitting Craft Instructor AND ▪ Teacher certified in: ▪ Agriculture OR ▪ Technology Education OR ▪ CTTIE 	<p>Must submit NCCER Form 200 at least once every two years</p> <p>OR</p> <p>re-attend NCCER Craft Instructor Training Certification Program at least once every two years</p>	<p>N/A</p>

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				OR <ul style="list-style-type: none"> ▪ 313602 NCCER Pipe Fitter I T&I (2 credits) OR <ul style="list-style-type: none"> ▪ 010801 NCCER Pipe Fitter I AG (1credit) OR <ul style="list-style-type: none"> ▪ 110731 NCCER Pipe Fitter I TE (1credit) OR <ul style="list-style-type: none"> ▪ 313600 NCCER Pipe Fitter I T&I (1credit) 	policy) P. Prentice Hall (HSC) Contren® Pipefitting Level I Trainee Guide Refer to following website when ordering: http://nccer.pearsonconstructionbooks.com/store/sales.aspx			
PrintED (Program must be reaccredited every five years) Graphic Arts Education and Research Foundation (GAERF)	Arts, A/V Technology, & Communication	<ul style="list-style-type: none"> ▪ Students who are enrolled in PrintED accredited program, and who have been identified by the instructor as having demonstrated proficiency in completing at least 80% of the required hands-on tasks, may register to take the certification examination(s). 		Printing I and II Graphic Arts I and II		<ul style="list-style-type: none"> ▪ Must meet all state and local qualifications as well as GAERF requirements. 	Recertified every five years coinciding with program re-accreditation	N/A

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ProStart I & II/ National Restaurant Association Educational Foundation (NRAEF)	Hospitality and Tourism	<ul style="list-style-type: none"> ▪ Must complete 360 hours of classroom instruction. ▪ Must complete 400 hours of work site training. ▪ Must show competency in 50 of 72 skill areas. ▪ Must pass the certification test. 	<ul style="list-style-type: none"> ▪ Nationally recognized certificate ▪ Articulated credit 	<ul style="list-style-type: none"> ▪ ProStart I and II using any of the course codes listed below. ▪ 100307 ProStart I (1 credit) ▪ 100308 ProStart I (2 credits) ▪ 100309 ProStart I (3 credits) ▪ 100321 ProStart II (1 credit) ▪ 100322 ProStart II (2 credits) ▪ 100323 ProStart II (3 credits) 		<ul style="list-style-type: none"> ▪ Chef/CTTIE OR ▪ One of the FACS Certifications/ NRAEF's CSFE (Certified Secondary Foodservice Educator) 	Every five years	Attend state training or regional update meeting annually.
^N Randolph-Sheppard Vending Certification LA Rehabilitation Services	Marketing, Sales, and Service Hospitality and Tourism	Full Certification <ul style="list-style-type: none"> ▪ High school diploma ▪ Completion of adjustment to blindness training program ▪ Completion of Randolph-Sheppard Management Training Program ▪ Passing score on ServSafe exam Partial Certification <ul style="list-style-type: none"> ▪ Completion of required coursework ▪ Must pass written exam 	<ul style="list-style-type: none"> ▪ State recognized certificate ▪ Pre-requisite for admission into Randolph-Sheppard Management Training Program 	<ul style="list-style-type: none"> ▪ 080901 Business Enterprises for the Visually Impaired 		<ul style="list-style-type: none"> ▪ Business OR ▪ Blind &/or Partially Blind AND ▪ Randolph-Sheppard Vending 	N/A	N/A

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IBC Certification/ Certifying Agency	Career Cluster	Requirements for Students to Earn Industry-Based Certification	Evidence of Certification/ Benefit to Student	*Culminating Course	Required Text	Teacher Certification Requirements	Teacher National Renewal Requirements	Teacher State Renewal Requirements
^N Safety & Pollution Prevention (SP2) C-Car	Transportation, Distribution, and Logistics	<ul style="list-style-type: none"> ▪ Completion or required coursework ▪ Must pass written exam (Passing score of 80% is required) 	<ul style="list-style-type: none"> ▪ Nationally recognized certificate 	<ul style="list-style-type: none"> ▪ General Automotive Maintenance or Automotive Tech I-IV 		<ul style="list-style-type: none"> ▪ CTTIE, Automotive Instructor <p>AND</p> <ul style="list-style-type: none"> ▪ ASE Certification 		Annual
^N ServSafe National Restaurant Association Solutions	Hospitality and Tourism	<ul style="list-style-type: none"> ▪ Completion of required coursework ▪ Must pass written exam (Passing score of 75% is required) 	<ul style="list-style-type: none"> ▪ Nationally and State recognized certificates 	<ul style="list-style-type: none"> ▪ ProStart II (100321 or 100322 or 100323) <p>OR</p> <ul style="list-style-type: none"> ▪ Food Service II (100371 or 100372 or 100373) <p>OR</p> <ul style="list-style-type: none"> ▪ Culinary Occupations II (311005 or 311012 or 311013) <p>OR</p> <ul style="list-style-type: none"> ▪ Advanced Nutrition and Food (100301) 	ServSafe Coursebook (5 th Edition) containing the 2009 FDA Food Codes	<ul style="list-style-type: none"> ▪ FCS <p>OR</p> <ul style="list-style-type: none"> ▪ CTTIE in Culinary Arts <p>AND</p> <ul style="list-style-type: none"> ▪ ServSafe Instructor certification 	The ServSafe Food Protection Manager Certification is renewable every five years	N/A

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Skills for Success-Room Division National exam/ American Hotel and Lodging Association	Hospitality and Tourism	<ul style="list-style-type: none"> ▪ Successful completion of course work. ▪ Minimum of 90 days on-the-job training in desired certification area. ▪ Successful completion of the certification exam. 	<ul style="list-style-type: none"> ▪ Nationally recognized certificate 	<ul style="list-style-type: none"> ▪ 040502 Lodging Management I (1 credits) ▪ 040503 Lodging Management I (2 credits) ▪ 040504 Lodging Management I (3 credits) ▪ 040505 Lodging Management II(1 credits) ▪ 040506 Lodging Management II (2 credits) ▪ 040507 Lodging Management II (3 credits) 		<ul style="list-style-type: none"> ▪ Business OR ▪ Marketing OR ▪ FCS Certification 	N/A	N/A
Students Teaching and Reaching (STAR): Louisiana State Department of Education	Education and Training	<ul style="list-style-type: none"> ▪ Completion of course with A or B 	<ul style="list-style-type: none"> ▪ State recognized certificate ▪ Articulated credit 	<ul style="list-style-type: none"> ▪ 080100 STAR I 		<ul style="list-style-type: none"> ▪ Master's Degree plus 5 years teaching experience 	N/A	Attend STAR update training annually

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^N T2 Safety Systems American Petroleum Institute	Manufacturing	<ul style="list-style-type: none"> ▪ Completion of required coursework ▪ Must pass written exam 	<ul style="list-style-type: none"> ▪ Internationally recognized certificate 	<ul style="list-style-type: none"> ▪ 110955 Oil and Gas Production Operations AND ▪ 110956 T2 Safety Systems for Oil and Gas Production 		<ul style="list-style-type: none"> ▪ Any High School Certified Teacher <p>AND</p> <ul style="list-style-type: none"> ▪ T2 Certification 		Every 3 years
The National Institute for Automotive Service Excellence (ASE)/ ASE Certification Automotive Technician	Transportation, Distribution and Logistics	(Partial Certification) <ul style="list-style-type: none"> ▪ Must pass at least three of the four modules provided in the secondary system. ▪ Full certification requires passing ASE exam and two years work experience. ▪ Modules articulate with Louisiana Technical College. 	<ul style="list-style-type: none"> ▪ Nationally recognized certificate ▪ Articulated credit 	<ul style="list-style-type: none"> ▪ Automotive Technician I - VI 		<ul style="list-style-type: none"> ▪ CTTIE, Automotive Instructor ▪ ASE Certification 	Every five years	N/A

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<p>The National Institute for Automotive Service Excellence (ASE)/</p> <p>ASE General Service Technician Certification</p>	<p>Transportation, Distribution and Logistics</p>	<p>Partial Certification</p> <ul style="list-style-type: none"> ▪ Complete a minimum of 500 hours of instruction in General Automotive Maintenance ▪ Complete all 100 P1 tasks ▪ Complete an additional 40 tasks from one of the four modules provided in the secondary ASE Automotive Technician Program <p>Full Certification</p> <ul style="list-style-type: none"> ▪ All of the above plus 2 years of work experience <p>Note - Two full years of high school training, either in automobile/truck/school bus repair or in collision repair, refinishing, or damage estimating, may be substituted for one year of work experience.</p>	<ul style="list-style-type: none"> ▪ Nationally recognized certificate 	<ul style="list-style-type: none"> ▪ General Automotive Maintenance 		<ul style="list-style-type: none"> ▪ CTTIE, Automotive Instructor <p>AND</p> <ul style="list-style-type: none"> ▪ ASE Certification 	<p>Every five years plus 20 hours CLU's annually</p>	<p>N/A</p>

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Two Stroke Technician/ Equipment and Engine Training Council (EETC)	Agriculture, Food and Natural Resources Architecture and Construction Manufacturing Transportation, Distribution, and Logistics	<ul style="list-style-type: none"> ▪ Successful completion of coursework ▪ Pass EETC Certification Exam 	<ul style="list-style-type: none"> ▪ Nationally recognized certificate ▪ Articulated credit 	<ul style="list-style-type: none"> ▪ 0010303 Agriscience III AND ▪ 010346 Small Engines Applications OR ▪ Outdoor Power Equipment Technician I 		<ul style="list-style-type: none"> ▪ Agriculture OR ▪ CTTIE AND ▪ Outdoor Power Equipment Two Stroke Technician 	N/A - Lifetime	N/A
Welding National Center for Construction Education and Research (NCCER)	Agriculture, Food and Natural Resources Architecture and Construction Manufacturing Transportation, Distribution, and Logistics	<ul style="list-style-type: none"> ▪ Agriculture, Technology, or Trade and Industrial Education NCCER Welding programs: <p>IBC completion of Welding Level I:</p> <ul style="list-style-type: none"> ▪ Successful completion of required NCCER Core modular written and performance exams with a minimum score of 70% ▪ Successful completion of all NCCER Welding Level I Fourth Edition modular written and performance exams with a minimum score of 70% 	<ul style="list-style-type: none"> ▪ Nationally recognized certificate ▪ NCCER wallet card ▪ Placed on NCCER National Registry accessible to industry ▪ Articulated credit 	<ul style="list-style-type: none"> ▪ 010903 NCCER Welding AG (3 credits) OR ▪ 110743 NCCER Welding Technology I TE (3credits) OR ▪ 313703 NCCER Welding Technology I T&I (3 credits) OR <p>* Core is a prerequisite for course offerings less than 3 credits</p> <ul style="list-style-type: none"> ▪ 010902 NCCER Welding AG (2 credits) OR ▪ 110742 NCCER Welding Technology I TE (2 credits) 	<ul style="list-style-type: none"> ▪ Current (per NCCER policy) P. Prentice Hall (HSC) Contren@ Core Curriculum Introductory Craft Skills Trainee Guide AND ▪ Current (per NCCER policy) P. Prentice Hall (HSC) Contren@ Welding Level I Trainee Guide 	<ul style="list-style-type: none"> ▪ NCCER Core AND ▪ NCCER Welding Level 1 AND ▪ Teacher certified in Agriculture OR ▪ Technology Education OR ▪ CTTIE 	Must submit NCCER Form 200 at least once every two years OR Re-attend NCCER Craft Instructor Training Certification Program at least once every two years.	N/A

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				OR <ul style="list-style-type: none"> ▪ 313702 NCCER Welding Technology I T&I (2 credits) OR <ul style="list-style-type: none"> ▪ 110741 NCCER Welding Technology I TE (1 credit) AND Second year <ul style="list-style-type: none"> ▪ 110746 NCCER Welding Technology II TE (1 credit) OR <ul style="list-style-type: none"> ▪ 313700 NCCER Welding Technology I T&I (1 credit) AND Second year <ul style="list-style-type: none"> ▪ 313705 NCCER Welding Technology II T&I (1 credit) 	Refer to following website when ordering: http://nccer.pearsonconstructionbooks.com/store/sales.aspx			

Key/Legend:

IBCs denoted with a superscript N are new to the matrix.

IBCs denoted with a superscript R indicate that revisions were made to an IBC that was previously listed on the matrix.

* Students must complete all prerequisites for the designated culminating course for all IBCs (refer to Model Course Guidelines for prerequisites)

Opportunities should be made available to acquire additional IBCs yielding stackable credentials. The opportunity to advance higher and faster to acquire IBC's should not be denied the student.