



CTE Technical Education and Health Science Occupational Proficiencies 2021-2022



The occupational proficiencies listed in this document are valid from
July 1, 2021 – June 30, 2022.

Program Area	ENTRY LEVEL Applicable Approaches / Certificates: <ul style="list-style-type: none"> ➤ Bachelor's Equivalent 1 & 2 – Health Science ➤ Bachelor's Equivalent 1 & 2 – Technical Ed ➤ The Additional Teaching Field – Professional ➤ The Additional Teaching Field – Degree Equivalent <p style="text-align: center;">(Choose ONE of the ● options unless otherwise indicated)</p>	MASTER LEVEL Applicable Approaches / Certificates: <ul style="list-style-type: none"> ➤ Master's Equivalent 3 and Sixth-Year Equivalent 4 – Health Science ➤ Master's Equivalent 3 and 4 – Technical Ed ➤ Sixth-Year Equivalent 5 – Technical Ed ➤ The Additional Teaching Field – Degree Equivalent ➤ The Career and Technical Certificate to a Professional Educator Certificate <p style="text-align: center;">(Choose ONE of the ● options unless otherwise indicated)</p>
Additive Manufacturing	<ul style="list-style-type: none"> ● ADDA Certified Mechanical Drafter ● Autodesk Certified User – AutoCAD ● Autodesk Certified User – Inventor ● NOCTI – Mechanical Drafting and Design (5272) ● NOCTI – Technical Drafting (5178) ● Solid Edge – Associate ● Solid Works - Associate <p style="text-align: center;">OR</p> <ul style="list-style-type: none"> ● One of the Master Level Occupational Proficiencies 	<ul style="list-style-type: none"> ● Autodesk Certified Professional – AutoCAD ● Autodesk Certified Professional – Inventor ● Solid Edge – Professional ● Solid Works – Professional <p style="text-align: center;">OR</p> <ul style="list-style-type: none"> ● ADDA Certified Mechanical Drafter ● Autodesk Certified User – AutoCAD ● Autodesk Certified User – Inventor ● NOCTI – Mechanical Drafting and Design (5272) ● NOCTI – Technical Drafting and Design (5178) ● Solid Edge – Associate ● Solid Works - Associate <p style="text-align: center;">AND</p> <ul style="list-style-type: none"> ● 125 hours of earned State-recognized professional learning/technical updates in Manufacturing with at least 30 hours earned at the Annual CTE Summer Conference within the valid period of the certificate held <p style="text-align: center;">OR</p> <ul style="list-style-type: none"> ● Any military rank above E5 (as indicated in box 6a / 6b on DD Form 214) in Manufacturing or a related Military Occupational Specialty (as indicated in box 16a & b and 17 a & b on DD Form 214) ● Any military rank of E5 or below must verify training and certifications in Manufacturing or a related Military Occupational Specialty as indicated by VMET on the DD Form 2586
Advertising Design	<ul style="list-style-type: none"> ● NOCTI – Advertising Design (5261) ● Associate's Degree in Graphic Arts or a related area <p style="text-align: center;">OR</p> <ul style="list-style-type: none"> ● One of the Master Level Occupational Proficiencies 	<ul style="list-style-type: none"> ● ADDA Certified Digital Designer ● Adobe Certified Expert Certification ● Bachelor's Degree in Graphic Arts or a related area
Animation	<ul style="list-style-type: none"> ● Adobe Certified Associate Web Design Specialist ● Bachelor's Degree in Art or a related area <p style="text-align: center;">OR</p> <ul style="list-style-type: none"> ● One of the Master Level Occupational Proficiencies 	<ul style="list-style-type: none"> ● Adobe Certified Expert Anime ● Adobe Certified Instructor ● Master's Degree in Art or a related area



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Automotive Service	<ul style="list-style-type: none"> ● ASE (Four areas required): <ul style="list-style-type: none"> ○ (A5) Brakes ○ (A6) Electrical/Electronic Systems ○ (G1) Maintenance and Light Repair ○ (A4) Suspension and Steering OR ● One of the Master Level Occupational Proficiencies 	<ul style="list-style-type: none"> ● ASE Master Automobile Certification ● Any military rank above E5 (as indicated in box 6a / 6b on DD Form 214) in Automotive Service or a related Military Occupational Specialty (as indicated in box 16a & b and 17 a & b on DD Form 214) ● Any military rank of E5 or below must verify training and certifications in Automotive Service or a related Military Occupational Specialty as indicated by VMET on the DD Form 2586
Aviation Technology	<ul style="list-style-type: none"> ● FAA Airframe Mechanic Certification (meet FAA standard credit school) ● FAA Power Plant Mechanic Certificate (meet FAA standard credit school) ● Private Pilot License OR ● One of the Master Level Occupational Proficiencies 	<ul style="list-style-type: none"> ● FAA Airframe & Power Plant Mechanic Certificate (General Certificate) ● Commercial Pilot License (CPL) ● Flight Instructor Certificate (CFI) ● Any military rank above E5 (as indicated in box 6a / 6b on DD Form 214) in Aviation Technology or a related Military Occupational Specialty (as indicated in box 16a & b and 17 a & b on DD Form 214) ● Any military rank of E5 or below must verify training and certifications in Aviation Technology or a related Military Occupational Specialty as indicated by VMET on the DD Form 2586
Building Construction	<ul style="list-style-type: none"> ● NCCER¹ Carpenter Level One OR ● One of the Master Level Occupational Proficiencies 	<ul style="list-style-type: none"> ● NCCER¹ Commercial Carpenter ● NCCER¹ Industrial Carpenter ● Alabama Home Builder's License
Cabinetmaking	<ul style="list-style-type: none"> ● NCCER¹ Carpentry Level One OR ● One of the Master Level Occupational Proficiencies 	<ul style="list-style-type: none"> ● NCCER¹ Commercial Carpenter ● NCCER¹ Industrial Carpenter ● Alabama Home Builder's License
Carpentry	<ul style="list-style-type: none"> ● NCCER¹ Carpenter Level One OR ● One of the Master Level Occupational Proficiencies 	<ul style="list-style-type: none"> ● NCCER¹ Commercial Carpenter ● NCCER¹ Industrial Carpenter ● Alabama Home Builder's License
Clean Energy (SREB)	<ul style="list-style-type: none"> ● NI Certified LabVIEW Associate Developer (CLAD) AND ● SREB Summer Teacher Training Institute required per course/per teacher OR ● One of the Master Level Occupational Proficiencies 	<ul style="list-style-type: none"> ● Alabama Electrical Contractor's License ● NCCER¹ Commercial Electrician ● NCCER¹ Industrial Electrician

¹ The applicant must achieve the cut score established by NCCER which is included in the specifications available for each of the specific industry craft assessments.



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Collision Repair	<ul style="list-style-type: none"> ● ASE: (<u>Two</u> areas required) <ul style="list-style-type: none"> ○ B2 - Painting and Refinishing ○ B3 - Non-Structural Analysis & Damage Repair ● I-Car ProLevel 2 Technician Certificate (<u>One</u> area required) <ul style="list-style-type: none"> ○ Refinishing ○ Nonstructural ○ Structural ○ Estimator <p style="text-align: center;">OR</p> <ul style="list-style-type: none"> ● One of the Master Level Occupational Proficiencies 	<ul style="list-style-type: none"> ● ASE Master Collision Repair Technician ● ASE (<u>Four</u> areas required): <ul style="list-style-type: none"> ○ B2 – Painting & Refinishing ○ B3 – Non-Structural Analysis & Damage Repair ○ B4 – Structural Analysis & Damage Repair ○ B5 – Mechanical & Electrical Components ● I-Car ProLevel 3 Platinum Technician (One area required) <ul style="list-style-type: none"> ○ Refinishing ○ Nonstructural ○ Structural ○ Estimator (requires 32 hours of classwork) ● I-Car Platinum Level Educator ● Any military rank above E5 (as indicated in box 6a / 6b on DD Form 214) in Collision Repair or a related Military Occupational Specialty (as indicated in box 16a & b and 17 a & b on DD Form 214) ● Any military rank of E5 or below must verify training and certifications in Collision Repair or a related Military Occupational Specialty as indicated by VMET on the DD Form 2586
Commercial Photography	<ul style="list-style-type: none"> ● Certified Professional Photographer (CPP) <p style="text-align: center;">OR</p> <ul style="list-style-type: none"> ● One of the Master Level Occupational Proficiencies 	<ul style="list-style-type: none"> ● Bachelor's Degree in Art or a related area <p style="text-align: center;">OR</p> <ul style="list-style-type: none"> ● Certified Drone Photographer (CDP) <p style="text-align: center;">AND</p> <ul style="list-style-type: none"> ● 125 hours of earned State-recognized professional learning/technical updates in Commercial Photography with at least 30 hours earned at the Annual CTE Summer Conference within the valid period of the certificate held
Computer Electronics³	<ul style="list-style-type: none"> ● Associate's Degree in computer technology or a related area ● CompTIA A+ (<u>Two</u> areas required): <ul style="list-style-type: none"> ○ Core 1 ○ Core 2 <p style="text-align: center;">OR</p> <ul style="list-style-type: none"> ● One of the Master Level Occupational Proficiencies 	<ul style="list-style-type: none"> ● CompTIA Network+ ● CompTIA Security+ <p style="text-align: center;">AND</p> <ul style="list-style-type: none"> ● 125 hours of earned State-recognized professional learning/technical updates in Computer Electronics with at least 30 hours earned at the Annual CTE Summer Conference within the valid period of the certificate held <p style="text-align: center;">OR</p> <ul style="list-style-type: none"> ● Bachelor's Degree or higher in computer technology or a related area <p style="text-align: center;">OR</p> <ul style="list-style-type: none"> ● Any military rank above E5 (as indicated in box 6a / 6b on DD Form 214) in Computer Electronics or a related Military Occupational Specialty (as indicated in box 16a & b and 17 a & b on DD Form 214) ● Any military rank of E5 or below must verify training and certifications in Computer Electronics or a related Military Occupational Specialty as indicated by VMET on the DD Form 2586

³ Higher level expert certifications may be considered for the program area at both the ENTRY LEVEL and MASTER LEVEL.



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Computer Science³	<ul style="list-style-type: none"> ● Bachelor's Degree in Computer Science, Computer Engineering, Software Engineering, or a related area ● C Programming Language Certified Associate (CLA) ● Microsoft Certified Solutions Developer (MCSD) ● Microsoft Technology Associate (<u>Two</u> areas required): Exam retiring 06/30/2022 <ul style="list-style-type: none"> ○ Software Development Fundamentals ○ Introduction to Programming using Java ○ Introduction to Programming using JavaScript ○ Introduction to Programming using Python <p>Notice: MTAs must be earned within five years (60 months) immediately prior to the receipt of the application in the Educator Certification Section of the Alabama State Department of Education (ALSDE). MTAs taken after June 30, 2022, will not be accepted.</p> <ul style="list-style-type: none"> ● Information Technology Specialist Exam (<u>Two</u> areas required): <ul style="list-style-type: none"> ○ Software Development ○ Java ○ JavaScript ○ Python ● Oracle Certified Associate ● SAS Certified Specialist: Base Programming <p>OR</p> <ul style="list-style-type: none"> ● One of the Master Level Occupational Proficiencies 	<ul style="list-style-type: none"> ● Master's Degree in Computer Science, Computer Engineering, Software Engineering, or a related area ● Microsoft Technology Associate (<u>Four</u> areas required): Exam retiring 06/30/2022 <ul style="list-style-type: none"> ● Software Development Fundamentals ● Introduction to Programming using Java ● Introduction to Programming using JavaScript ● Introduction to Programming using Python <p>Notice: MTAs must be earned within five years (60 months) immediately prior to the receipt of the application in the Educator Certification Section of the ALSDE. MTAs taken after June 30, 2022, will not be accepted.</p> <ul style="list-style-type: none"> ● Information Technology Specialist Exam (<u>Four</u> areas required): <ul style="list-style-type: none"> ○ Software Development ○ Java ○ JavaScript ○ Python ● Oracle Certified Professional or higher ● SAS Certified Professional: Advanced Programming <p>OR</p> <ul style="list-style-type: none"> ● Any military rank above E5 (as indicated in box 6a / 6b on DD Form 214) in Computer Science or a related Military Occupational Specialty (as indicated in box 16a & b and 17 a & b on DD Form 214) ● Any military rank of E5 or below must verify training and certifications in Computer Science or a related Military Occupational Specialty as indicated by VMET on the DD Form 2586
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Computer Science – PLTW³	<ul style="list-style-type: none"> ● Bachelor's Degree in Computer Science, Computer Engineering, Software Engineering, or a related area AND ● PLTW Summer Training Institute required per course/per teacher <p style="text-align: center;">OR</p> <ul style="list-style-type: none"> ● Alabama Class B or higher Professional Educator Certificate in Computer Science, Mathematics, or General Science AND ● Microsoft Technology Associate (<u>One</u> area required): Exam retiring 06/30/2022 <ul style="list-style-type: none"> ○ Software Development Fundamentals ○ Introduction to Programming using Java ○ Introduction to Programming using JavaScript ○ Introduction to Programming using Python <p><i>Notice: MTAs must be earned within five years (60 months) immediately prior to the receipt of the application in the Educator Certification Section of the ALSDE. MTAs taken after June 30, 2022, will not be accepted.</i></p> <p style="text-align: center;">OR</p> <ul style="list-style-type: none"> ● Information Technology Specialist Exam (<u>One</u> area required): <ul style="list-style-type: none"> ○ Software Development ○ Java ○ JavaScript ○ Python <p style="text-align: center;">AND</p> <ul style="list-style-type: none"> ● PLTW Summer Training Institute required per course/per teacher <p style="text-align: center;">OR</p> <ul style="list-style-type: none"> ● One of the Master Level Occupational Proficiencies 	<ul style="list-style-type: none"> ● Master's Degree in Computer Science, Computer Engineering, Software Engineering, or a related area ● 125 hours of earned State-recognized professional learning/technical updates in Computer Science with at least 30 hours earned at the Annual CTE Summer Conference within the valid period of the certificate held ● Microsoft Technology Associate (<u>Four</u> areas required): Exam retiring 06/30/2022 <ul style="list-style-type: none"> ○ Software Development Fundamentals ○ Introduction to Programming using Java ○ Introduction to Programming using JavaScript ○ Introduction to Programming using Python <p><i>Notice: MTAs must be earned and within five years (60 months) immediately prior to the receipt of the application in the Educator Certification Section of the ALSDE. MTAs taken after June 30, 2022, will not be accepted.</i></p> <ul style="list-style-type: none"> ● Information Technology Specialist Exam (<u>Four</u> area required): <ul style="list-style-type: none"> ○ Software Development ○ Java ○ JavaScript ○ Python ● Oracle Certified Professional or higher ● SAS Certified Professional: Advanced Programming <p style="text-align: center;">AND</p> <ul style="list-style-type: none"> ● PLTW Summer Training Institute required per course/per teacher <p style="text-align: center;">OR</p> <ul style="list-style-type: none"> ● Any military rank above E5 (as indicated in box 6a / 6b on DD Form 214) in Computer Science or a related Military Occupational Specialty (as indicated in box 16a & b and 17 a & b on DD Form 214) ● Any military rank of E5 or below must verify training and certifications in Computer Science or a related Military Occupational Specialty as indicated by VMET on the DD Form 2586 <p style="text-align: center;">AND</p> <ul style="list-style-type: none"> ● PLTW Summer Training Institute required per course/per teacher
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Correctional Service	<ul style="list-style-type: none"> ● APOST Certification or equivalent ● DODPOST Certification or equivalent ● Federal Law Enforcement Training Agency <p>OR</p> <ul style="list-style-type: none"> ● One of the Master Level Occupational Proficiencies 	<ul style="list-style-type: none"> ● APOST Certification or equivalent ● DODPOST Certification or equivalent ● Federal Law Enforcement Training Agency <p>AND</p> <ul style="list-style-type: none"> ● 125 hours of earned State-recognized professional learning/technical updates in Law, Public Safety, Corrections, and Security Cluster with at least 30 hours earned at the Annual CTE Summer Conference within the valid period of the certificate held <p>OR</p> <ul style="list-style-type: none"> ● Bachelor’s Degree or higher in a related Law and Public Safety area
Cosmetology	<ul style="list-style-type: none"> ● Alabama Cosmetology Instructor License <p>OR</p> <ul style="list-style-type: none"> ● The Master Level Occupational Proficiency 	<ul style="list-style-type: none"> ● Alabama Cosmetology Instructor License <p>AND</p> <ul style="list-style-type: none"> ● 125 hours of earned State-recognized professional learning/technical updates in Cosmetology with at least 30 hours earned at the Annual CTE Summer Conference within the valid period of the certificate held
Culinary Arts	<ul style="list-style-type: none"> ● American Culinary Federation (ACF) Certified Culinarian <p>AND</p> <ul style="list-style-type: none"> ● Serv Safe Manager <p>OR</p> <ul style="list-style-type: none"> ● Associate’s Degree in Culinary Arts <p>AND</p> <ul style="list-style-type: none"> ● Serv Safe Manager <p>OR</p> <ul style="list-style-type: none"> ● One of the Master Level Occupational Proficiencies 	<ul style="list-style-type: none"> ● Bachelor’s Degree in Culinary Arts or an equivalent degree <p>OR</p> <ul style="list-style-type: none"> ● Serv Safe Manager <p>AND</p> <ul style="list-style-type: none"> ● One of the following: <ul style="list-style-type: none"> ○ American Culinary Federation Certified Master Chef ○ American Culinary Federation Certified Culinary Educator ○ American Culinary Federation Certified Executive Chef ○ American Culinary Federation Certified Master Pastry Chef



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Database Design³	<ul style="list-style-type: none"> ● Certified Internet Web (CIW) Database Design Specialist ● Microsoft Certified Solutions Associate (MCSA) <ul style="list-style-type: none"> ❖ Exam retired 01/31/2021 - Valid for Life ● Azure Database Administrator Associate ● Microsoft Access Expert (2019), Previously named <ul style="list-style-type: none"> ○ Microsoft Office Specialist Access (2016 or higher) ● Microsoft Technology Associate <ul style="list-style-type: none"> Exam retiring 06/30/2022 ○ Database Fundamentals <p>Notice: MTAs must be earned within five years (60 months) immediately prior to the receipt of the application in the Educator Certification Section of the ALSDE. MTAs taken after June 30, 2022, will not be accepted.</p> <ul style="list-style-type: none"> ● Information Technology Specialist Exam <ul style="list-style-type: none"> ● Databases ● Oracle Certified Associate: Database ● SAS Certified Base Programmer <p>OR</p> <ul style="list-style-type: none"> ● One of the Master Level Occupational Proficiencies 	<ul style="list-style-type: none"> ● Certified Internet Web (CIW) Development Professional (<u>Two</u> Exams required): <ul style="list-style-type: none"> ○ Exam 1DO-541 ○ Exam 1DO-437 ● IBM Certified Database Administrator – DB2 ● Microsoft Certified Solutions Expert Level: Data Management and Analytics <ul style="list-style-type: none"> ❖ Exam retiring 06/30/2022 - Valid for Life ● Oracle Certified Professional: Database Specialty ● SAS Certified Advanced Programmer <p>OR</p> <ul style="list-style-type: none"> ● Any military rank above E5 (as indicated in box 6a / 6b on DD Form 214) in Computer Science or a related Military Occupational Specialty (as indicated in box 16a & b and 17 a & b on DD Form 214) ● Any military rank of E5 or below must verify training and certifications in Computer Science or a related Military Occupational Specialty as indicated by VMET on the DD Form 2586
Diesel Technology	<ul style="list-style-type: none"> ● ASE (<u>Four</u> areas required): <ul style="list-style-type: none"> ○ T4 – Brakes ○ T5 – Suspension & Steering ○ T6 – Electrical/ Electronic Systems ○ T8 – Preventive Maintenance Inspection <p>OR</p> <ul style="list-style-type: none"> ● One of the Master Level Occupational Proficiencies 	<ul style="list-style-type: none"> ● ASE Medium-Heavy Vehicle Master Certification <p>OR</p> <ul style="list-style-type: none"> ● Any military rank above E5 (as indicated in box 6a / 6b on DD Form 214) in Diesel Technology or a related Military Occupational Specialty (as indicated in box 16a & b and 17 a & b on DD Form 214) ● Any military rank of E5 or below must verify training and certifications in Diesel Technology or a related Military Occupational Specialty as indicated by VMET on the DD Form 2586
Drafting Design Technology	<ul style="list-style-type: none"> ● Autodesk Certified User – AutoCAD ● Autodesk Certified User – Inventor ● NOCTI – Mechanical Drafting and Design (5272) ● NOCTI – Technical Drafting (5178) ● Solid Edge – Associate ● Solid Works – Associate <p>OR</p> <ul style="list-style-type: none"> ● One of the Master Level Occupational Proficiencies 	<ul style="list-style-type: none"> ● Autodesk Certified Professional – AutoCAD ● Autodesk Certified Professional – Inventor ● Solid Edge – Professional ● Solid Works – Professional
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Electrical Technology	<ul style="list-style-type: none"> ● NCCER¹ Electrician Level 1 <p style="text-align: center;">OR</p> <ul style="list-style-type: none"> ● One of the Master Level Occupational Proficiencies 	<ul style="list-style-type: none"> ● Alabama Electrical Contractor's License ● NCCER¹ Commercial Electrician ● NCCER¹ Industrial Electrician
Electronics Technology	<ul style="list-style-type: none"> ● Electronics Technicians Association CETa Exam <p style="text-align: center;">OR</p> <ul style="list-style-type: none"> ● One of the Master Level Occupational Proficiencies 	<ul style="list-style-type: none"> ● Electronics Technicians Association CETsr Exam <p style="text-align: center;">OR</p> <ul style="list-style-type: none"> ● Electronics Technicians Association CETa Exam AND ● 125 hours of earned State-recognized professional learning/technical updates in Electronics Technicians with at least 30 hours earned at the Annual CTE Summer Conference within the valid period of the certificate held <p style="text-align: center;">OR</p> <ul style="list-style-type: none"> ● Any military rank above E5 (as indicated in box 6a / 6b on DD Form 214) in Manufacturing or a related Military Occupational Specialty (as indicated in box 16a & b and 17 a & b on DD Form 214) ● Any military rank of E5 or below must verify training and certifications in Manufacturing or a related Military Occupational Specialty as indicated by VMET on the DD Form 2586
Emergency and Fire Management Services	<ul style="list-style-type: none"> ● Firefighter I/II AND ● Fire Instructor I <ul style="list-style-type: none"> ○ School systems planning to offer the National Fire Protection Agency 1001 certification must employ a teacher who holds Fire Instructor I certification. <p style="text-align: center;">OR</p> <ul style="list-style-type: none"> ● One of the Master Level Occupational Proficiencies 	<ul style="list-style-type: none"> ● Bachelor's Degree in a related Law and Public Safety area ● Fire Officer I ● Certified in Rescue Technician content other than Rope I and Rope II (Four Content Areas Required) <ul style="list-style-type: none"> ○ RT: Cave I/II ○ RT: Confined Space I/II ○ RT: Dive I ○ RT: Structural Collapse I/II ○ RT: Surface Water I/II ○ RT: Swiftwater I/II ○ RT: Trench I/II ○ RT: Vehicle Extrication and Machinery Extrication I ○ RT: Wilderness I/II <p style="text-align: center;">OR</p> <ul style="list-style-type: none"> ● EMS Safety Officer AND ○ Alabama state licensed Emergency Medical Technician certified to the EMS OR ○ Rescue Officer Level I may be certified as an EMS Safety Officer I

¹The applicant must achieve the cut score established by NCCER which is included in the specifications available for each of the specific industry craft assessments.



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Program Area	<p style="text-align: center;">ENTRY LEVEL</p> <p style="text-align: center;">Applicable Approaches / Certificates:</p> <ul style="list-style-type: none"> ➤ Bachelor’s Equivalent 1 & 2 – Health Science ➤ Bachelor’s Equivalent 1 & 2 – Technical Ed ➤ The Additional Teaching Field – Professional ➤ The Additional Teaching Field – Degree Equivalent <p style="text-align: center;">(Choose ONE of the ● options unless otherwise indicated)</p>	<p style="text-align: center;">MASTER LEVEL</p> <p style="text-align: center;">Applicable Approaches / Certificates:</p> <ul style="list-style-type: none"> ➤ Master’s Equivalent 3 and Sixth-Year Equivalent 4 – Health Science ➤ Master’s Equivalent 3 and 4 – Technical Ed ➤ Sixth-Year Equivalent 5 – Technical Ed ➤ The Additional Teaching Field – Degree Equivalent ➤ The Career and Technical Certificate to a Professional Educator Certificate <p style="text-align: center;">(Choose ONE of the ● options unless otherwise indicated)</p>
Engineering	<ul style="list-style-type: none"> • Bachelor’s Degree in Engineering <p style="text-align: center;">OR</p> <ul style="list-style-type: none"> • Alabama Class B Professional Educator Certificate in Math, General Science, Chemistry, or Physics <p style="text-align: center;">AND</p> <ul style="list-style-type: none"> • 30 hours of earned State-recognized professional learning/technical updates in Engineering within the valid period of the certificate held <p style="text-align: center;">OR</p> <ul style="list-style-type: none"> • NOCTI – Pre-Engineering/Engineering Technology (5915) <p style="text-align: center;">AND</p> <ul style="list-style-type: none"> • 30 hours of earned State-recognized professional learning/technical updates in Engineering within the valid period of the certificate held <p style="text-align: center;">OR</p> <ul style="list-style-type: none"> • One of the Master Level Occupational Proficiencies 	<ul style="list-style-type: none"> • Master’s Degree in Engineering <p style="text-align: center;">OR</p> <ul style="list-style-type: none"> • Alabama Class A or higher Professional Educator Certificate in Math, General Science, Chemistry, or Physics <p style="text-align: center;">AND</p> <ul style="list-style-type: none"> • NOCTI – Pre-Engineering/Engineering Technology (5915) <p style="text-align: center;">AND</p> <ul style="list-style-type: none"> • 125 hours of earned State-recognized professional learning/technical updates in Engineering with at least 30 hours earned at the Annual CTE Summer Conference within the valid period of the certificate held <p style="text-align: center;">OR</p> <ul style="list-style-type: none"> • Any military rank above E5 (as indicated in box 6a / 6b on DD Form 214) in Engineering or a related Military Occupational Specialty (as indicated in box 16a & b and 17 a & b on DD Form 214) • Any military rank of E5 or below must verify training and certifications in Engineering or a related Military Occupational Specialty as indicated by VMET on the DD Form 2586
Forestry⁴	<ul style="list-style-type: none"> • Forestry Worker Certification <p style="text-align: center;">OR</p> <ul style="list-style-type: none"> • One of the Master Level Occupational Proficiencies 	<ul style="list-style-type: none"> • Forestry Worker Certification <p style="text-align: center;">AND</p> <ul style="list-style-type: none"> • Integrated Pest Management Certification <p style="text-align: center;">OR</p> <ul style="list-style-type: none"> • Urban Forestry Technician <p style="text-align: center;">AND</p> <ul style="list-style-type: none"> • 125 hours of earned State-recognized professional learning/technical updates in Forestry with at least 30 hours earned at the Annual CTE Summer Conference within the valid period of the certificate held
⁴ Inactive Program		



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Program Area	<p style="text-align: center;">ENTRY LEVEL</p> <p style="text-align: center;">Applicable Approaches / Certificates:</p> <ul style="list-style-type: none"> ➤ Bachelor’s Equivalent 1 & 2 – Health Science ➤ Bachelor’s Equivalent 1 & 2 – Technical Ed ➤ The Additional Teaching Field – Professional ➤ The Additional Teaching Field – Degree Equivalent <p style="text-align: center;">(Choose ONE of the ● options unless otherwise indicated)</p>	<p style="text-align: center;">MASTER LEVEL</p> <p style="text-align: center;">Applicable Approaches / Certificates:</p> <ul style="list-style-type: none"> ➤ Master’s Equivalent 3 and Sixth-Year Equivalent 4 – Health Science ➤ Master’s Equivalent 3 and 4 – Technical Ed ➤ Sixth-Year Equivalent 5 – Technical Ed ➤ The Additional Teaching Field – Degree Equivalent ➤ The Career and Technical Certificate to a Professional Educator Certificate <p style="text-align: center;">(Choose ONE of the ● options unless otherwise indicated)</p>
Global Logistics (SREB)	<ul style="list-style-type: none"> ● Associates of Applied Science degree in Logistics, Materials, & Supply Chain Management ● Any military rank above E4 (as indicated in box 6a / 6b on DD Form 214) in Global Logistics or a related Military Occupational Specialty (as indicated in box 16a & b and 17 a & b on DD Form 214) ● Any military rank of E4 or below must verify training and certifications in Global Logistics or a related Military Occupational Specialty as indicated by VMET on the DD Form 2586 <p style="text-align: center;">OR</p> <ul style="list-style-type: none"> ● One of the Master Level Occupational Proficiencies 	<ul style="list-style-type: none"> ● Bachelor’s Degree in Supply Chain Management or a related area ● Any military rank above E5 (as indicated in box 6a / 6b on DD Form 214) in Global Logistics or a related Military Occupational Specialty (as indicated in box 16a & b and 17 a & b on DD Form 214) ● Any military rank of E5 or below must verify training and certifications in Global Logistics or a related Military Occupational Specialty as indicated by VMET on the DD Form 2586
Graphic Arts	<ul style="list-style-type: none"> ● Associate’s Degree in Graphic Arts or a related area ● Adobe Certified Associate Specialist (<u>Three</u> areas required): <ul style="list-style-type: none"> ○ After Effects ○ Animate ○ Dreamweaver ○ Flash ○ Illustrator ○ InDesign ○ Photoshop ○ Premiere Pro ● ADDA Certified Digital Designer <p style="text-align: center;">OR</p> <ul style="list-style-type: none"> ● One of the Master Level Occupational Proficiencies 	<ul style="list-style-type: none"> ● Adobe Certified Associate Specialist (<u>All</u> areas required): <ul style="list-style-type: none"> ○ After Effects ○ Animate ○ Dreamweaver ○ Flash ○ Illustrator ○ InDesign ○ Photoshop ○ Premiere Pro ● Adobe Certified Expert Certification



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Program Area	ENTRY LEVEL Applicable Approaches / Certificates:		MASTER LEVEL Applicable Approaches / Certificates:	
	<ul style="list-style-type: none"> ➤ Bachelor's Equivalent 1 & 2 – Health Science ➤ Bachelor's Equivalent 1 & 2 – Technical Ed ➤ The Additional Teaching Field – Professional ➤ The Additional Teaching Field – Degree Equivalent <p>(Choose ONE of the ● options unless otherwise indicated)</p>		<ul style="list-style-type: none"> ➤ Master's Equivalent 3 and Sixth-Year Equivalent 4 – Health Science ➤ Master's Equivalent 3 and 4 – Technical Ed ➤ Sixth-Year Equivalent 5 – Technical Ed ➤ The Additional Teaching Field – Degree Equivalent ➤ The Career and Technical Certificate to a Professional Educator Certificate <p>(Choose ONE of the ● options unless otherwise indicated)</p>	
Health Informatics ³	Health Profession	Alabama License	Health Profession	Alabama License
	Athletic Trainer (<u>not</u> Personal Trainer)	ATC	Athletic Trainer (<u>not</u> Personal Trainer)	ATC
	*Nurse Practitioner	CRNP	*Nurse Practitioner	CRNP
	Occupational Therapist	OT, OT/L, OTR/L or LOTR	Occupational Therapist	OT, OT/L, OTR/L or LOTR
	Paramedic	Paramedic	Paramedic	Paramedic
	Pharmacist	PharmD/RPh	Pharmacist	PharmD/RPh
	Physician	MD or DO	Physician	MD or DO
	Physician Assistant	PA	Physician Assistant	PA
	Physical Therapist	PT or RPT	Physical Therapist	PT or RPT
	*Registered Nurse	RN	*Registered Nurse	RN
	Respiratory Therapist	CRT or RRT	Respiratory Therapist	CRT or RRT
	Veterinarian	DVM	Veterinarian	DVM
	<p>AND</p> <ul style="list-style-type: none"> • Microsoft Office Specialist Access (2016 or higher) • Microsoft Technology Associate <p>Exam retiring 06/30/2022</p> <ul style="list-style-type: none"> ◦ Database Fundamentals <p>Notice: MTAs must be earned within five years (60 months) immediately prior to the receipt of the application in the Educator Certification Section of the ALSDE. MTAs taken after June 30, 2022, will not be accepted.</p> <ul style="list-style-type: none"> • Information Technology Specialist Exam <ul style="list-style-type: none"> • Databases • Oracle Certified Associate: Database • SAS Certified Base Programmer <p>AND</p> <ul style="list-style-type: none"> • SREB Summer Teacher Training Institute required per course/per teacher <p>OR</p> <ul style="list-style-type: none"> • One of the Master Level Occupational Proficiencies 		<p>AND</p> <ul style="list-style-type: none"> • IBM Certified Database Administrator – DB2 • Microsoft Certified Solutions Expert level: Data Management and Analytics <p>Exam retiring 06/30/2022 - Valid for Life</p> <ul style="list-style-type: none"> • Oracle Certified Professional: Database Specialty • SAS Certified Advanced Programmer <p>AND</p> <ul style="list-style-type: none"> • SREB Summer Teacher Training Institute required per course/per teacher 	
<p>*School systems planning to offer Certified Nurse Aide Training Program must employ a teacher who is a registered nurse. Must have two years nursing experience and one year must be in caring for geriatric patients.</p>				
<p>³ Higher level expert certifications may be considered for the program area at both the ENTRY LEVEL and MASTER LEVEL.</p>				



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Program Area	ENTRY LEVEL Applicable Approaches / Certificates:		MASTER LEVEL Applicable Approaches / Certificates:	
	<ul style="list-style-type: none"> ➤ Bachelor's Equivalent 1 & 2 – Health Science ➤ Bachelor's Equivalent 1 & 2 – Technical Ed ➤ The Additional Teaching Field – Professional ➤ The Additional Teaching Field – Degree Equivalent <p>(Choose ONE of the ● options unless otherwise indicated)</p>		<ul style="list-style-type: none"> ➤ Master's Equivalent 3 and Sixth-Year Equivalent 4 – Health Science ➤ Master's Equivalent 3 and 4 – Technical Ed ➤ Sixth-Year Equivalent 5 – Technical Ed ➤ The Additional Teaching Field – Degree Equivalent ➤ The Career and Technical Certificate to a Professional Educator Certificate <p>(Choose ONE of the ● options unless otherwise indicated)</p>	
Health Science	Health Profession	Alabama License	Health Profession	Alabama License
	Athletic Trainer (<u>not</u> Personal Trainer)	ATC	Athletic Trainer (<u>not</u> Personal Trainer)	ATC
	*Nurse Practitioner	CRNP	*Nurse Practitioner	CRNP
	Occupational Therapist	OT, OT/L, OTR/L or LOTR	Occupational Therapist	OT, OT/L, OTR/L or LOTR
	Paramedic	Paramedic	Paramedic	Paramedic
	Pharmacist	PharmD/RPh	Pharmacist	PharmD/RPh
	Physician	MD or DO	Physician	MD or DO
	Physician Assistant	PA	Physician Assistant	PA
	Physical Therapist	PT or RPT	Physical Therapist	PT or RPT
	*Registered Nurse	RN	*Registered Nurse	RN
	Respiratory Therapist	CRT or RRT	Respiratory Therapist	CRT or RRT
	Veterinarian	DVM	Veterinarian	DVM
			AND <ul style="list-style-type: none"> ● BLS Instructor Certification AND <ul style="list-style-type: none"> ● 30 hours of earned State-recognized professional learning/technical updates in the Healthcare field within the valid period of the certificate held 	
Heating, Ventilation, Air Conditioning, and Refrigeration (HVACR)	<ul style="list-style-type: none"> ● NCCER² HVAC Technician OR <ul style="list-style-type: none"> ● One of the Master Level Occupational Proficiencies 		<ul style="list-style-type: none"> ● NCCER¹ HVAC Technician ● Alabama HVAC Contractor's License 	
Heavy Equipment Operations	<ul style="list-style-type: none"> ● NCCER¹ Heavy Equipment Operator (HEO) Level One ● NCCER¹ HEO: Forklift OR <ul style="list-style-type: none"> ● One of the Master Level Occupational Proficiencies 		<ul style="list-style-type: none"> ● NCCER¹ HEO: Loader ● NCCER¹ HEO: Excavator ● NCCER¹ HEO: Dozer ● NCCER¹ HEO: Backhoe 	
<p>*School systems planning to offer Certified Nurse Aide Training Program must employ a teacher who is a registered nurse. Must have two years nursing experience and one year must be in caring for geriatric patients.</p> <p>¹ The applicant must achieve the cut score established by NCCER which is included in the specifications available for each of the specific industry craft assessments.</p> <p>² The applicant may achieve either the cut score established by NCCER or a minimum cut score on the NCCER first and second level of their industry-specific craft assessment. The minimum cut score will be determined from the applicant's score report that details the number of correct responses for each module assessed and specific to the industry craft assessment.</p> <p>⁴ Inactive Program</p>				



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Program Area	ENTRY LEVEL Applicable Approaches / Certificates: <ul style="list-style-type: none"> ➤ Bachelor's Equivalent 1 & 2 – Health Science ➤ Bachelor's Equivalent 1 & 2 – Technical Ed ➤ The Additional Teaching Field – Professional ➤ The Additional Teaching Field – Degree Equivalent <p>(Choose ONE of the ● options unless otherwise indicated)</p>	MASTER LEVEL Applicable Approaches / Certificates: <ul style="list-style-type: none"> ➤ Master's Equivalent 3 and Sixth-Year Equivalent 4 – Health Science ➤ Master's Equivalent 3 and 4 – Technical Ed ➤ Sixth-Year Equivalent 5 – Technical Ed ➤ The Additional Teaching Field – Degree Equivalent ➤ The Career and Technical Certificate to a Professional Educator Certificate <p>(Choose ONE of the ● options unless otherwise indicated)</p>
Horticulture⁴	<ul style="list-style-type: none"> ● Landscape Management Technician <p>OR</p> <ul style="list-style-type: none"> ● One of the Master Level Occupational Proficiencies 	<ul style="list-style-type: none"> ● Landscape Management Technician <p>AND</p> <ul style="list-style-type: none"> ● Integrated Pest Management Certification <p>OR</p> <ul style="list-style-type: none"> ● Turfgrass Management Certification <p>AND</p> <ul style="list-style-type: none"> ● 125 hours of earned State-recognized professional learning/technical updates in Horticulture with at least 30 hours earned at the Annual CTE Summer Conference within the valid period of the certificate held
Industrial Maintenance-Mechanical	<ul style="list-style-type: none"> ● NCCER¹ Industrial Maintenance Support Mechanic <p>OR</p> <ul style="list-style-type: none"> ● NCCER² Industrial Maintenance Mechanic ● One of the Master Level Occupational Proficiencies 	<ul style="list-style-type: none"> ● NCCER¹ Industrial Maintenance Mechanic ● Any military rank above E5 (as indicated in box 6a / 6b on DD Form 214) in Industrial Maintenance – Mechanical or a related Military Occupational Specialty (as indicated in box 16a & b and 17 a & b on DD Form 214) ● Any military rank of E5 or below must verify training and certifications in Industrial Maintenance – Mechanical or a related Military Occupational Specialty as indicated by VMET on the DD Form 2586
<p>¹ The applicant must achieve the cut score established by NCCER which is included in the specifications available for each of the specific industry craft assessments.</p> <p>² The applicant may achieve either the cut score established by NCCER or a minimum cut score on the NCCER first and second level of their industry-specific craft assessment. The minimum cut score will be determined from the applicant's score report that details the number of correct responses for each module assessed and specific to the industry craft assessment.</p>		



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Informatics (SREB)³	<ul style="list-style-type: none"> • Certified Internet Web (CIW) Database Design Specialist • Microsoft Certified Solutions Associate (MCSA) • Microsoft Office Specialist Access (2016 or higher) • Microsoft Technology Associate: Database Fundamentals <i>Notice: MTAs must be earned within five years (60months) immediately prior to the receipt of the application in the Educator Certification Section of the ALSDE. MTAs taken after June 30, 2022, will not be accepted.</i> • Information Technology Specialist Exam <ul style="list-style-type: none"> ○ Databases • Oracle Certified Associate: Database • SAS Certified Base Programmer • Certified Ethical Hacker • Cisco Career Certification (Associate Level) • CompTIA A+ (<u>Two</u> areas required): <ul style="list-style-type: none"> ○ Core 1 ○ Core 2 • CompTIA Network+ • CompTIA Security+ • Microsoft Technology Associate (<u>Two</u> areas required): <i>Exam retiring 06/30/2022</i> <ul style="list-style-type: none"> ○ Networking Fundamentals ○ Security Fundamentals ○ Mobility and Device Fundamentals ○ Windows Server Administration Fundamentals <i>Notice: MTAs must be earned within five years (60 months) immediately prior to the receipt of the application in the Educator Certification Section of the ALSDE. MTAs taken after June 30, 2022, will not be accepted.</i> • Information Technology Specialist Exam (<u>Two</u> areas required): <ul style="list-style-type: none"> ○ Networking ○ Network Security ○ Device Configuration and Management ○ Cloud Computing ○ HTML5 Application Development ○ Software Development ○ Java ○ JavaScript ○ Python ○ Artificial Intelligence • C Programming Language Certified Associate (CLA) • Microsoft Certified Solutions Developer (MCSD) <p style="text-align: center;">Continued on the next page</p>	<ul style="list-style-type: none"> • Certified Internet Web (CIW) Development Professional (Two exams required): <ul style="list-style-type: none"> ○ Exam 1DO-541 ○ Exam 1DO-437 • IBM Certified Database Administrator – DB2 • Microsoft Certified Solutions Expert level: Data Management and Analytics <i>Exam retiring 06/30/2022 - Valid for Life</i> • Oracle Certified Professional: Database Specialty • SAS Certified Advanced Programmer • Microsoft Technology Associate (<u>Four</u> areas required): <i>Exam retiring 06/30/2022</i> <ul style="list-style-type: none"> ○ Networking Fundamentals ○ Security Fundamentals ○ Mobility and Device Fundamentals ○ Windows Server Administration Fundamentals <i>Notice: MTAs must be earned within five years (60 months) immediately prior to the receipt of the application in the Educator Certification Section of the ALSDE. MTAs taken after June 30, 2022, will not be accepted.</i> • Information Technology Specialist Exam (<u>Four</u> areas required): <ul style="list-style-type: none"> ○ Networking ○ Network Security ○ Device Configuration and Management ○ Cloud Computing ○ HTML5 Application Development ○ Software Development ○ Java ○ JavaScript ○ Python ○ Artificial Intelligence • C Programming Language • Microsoft Technology Associate (<u>Five</u> areas required): <i>Exam retiring 06/30/2022</i> <ul style="list-style-type: none"> ○ HTML5 App Development Fundamentals ○ Software Development Fundamentals ○ Introduction to Programming using Java ○ Introduction to Programming using JavaScript ○ Introduction to Programming using Python <i>Notice: MTAs must be earned within five years (60 months) immediately prior to the receipt of the application in the Educator Certification Section of the ALSDE. MTAs taken after June 30, 2022, will not be accepted.</i> AND • SREB Summer Teacher Training Institute required per course/per teacher <p style="text-align: center;">Continued on the next page</p>
³ Higher level expert certifications may be considered for the program area at both the ENTRY LEVEL and MASTER LEVEL.		



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Informatics (SREB)³ (Continued)	<ul style="list-style-type: none"> ● Microsoft Technology Associate (<u>Two</u> areas required): Exam retiring 06/30/2022 <ul style="list-style-type: none"> ○ HTML5 App Development Fundamentals ○ Software Development Fundamentals ○ Introduction to Programming using Java ○ Introduction to Programming using JavaScript ○ Introduction to Programming using Python ● Notice: MTAs must be earned within five years (60 months) immediately prior to the receipt of the application in the Educator Certification Section of the ALSDE. MTAs taken after June 30, 2022, will not be accepted. ● Information Technology Specialist Exam (<u>Two</u> areas required): <ul style="list-style-type: none"> ○ HTML5 Application Development ○ Software Development ○ Java ○ JavaScript ○ Python ○ Cloud Computing ○ Artificial Intelligence ● Oracle Certified Associate ● SAS Certified Base Programmer <p>AND</p> <ul style="list-style-type: none"> ● SREB Summer Teacher Training Institute required per course/per teacher <p>OR</p> <ul style="list-style-type: none"> ● One of the Master Level Occupational Proficiencies 	<ul style="list-style-type: none"> ● Master's Degree in Informatics or in a related field <p>AND</p> <ul style="list-style-type: none"> ● 125 hours of earned State-recognized professional learning/technical updates in Informatics with at least 30 hours earned at the Annual CTE Summer Conference within the valid period of the certificate held <p>AND</p> <ul style="list-style-type: none"> ● SREB Summer Teacher Training Institute required per course/per teacher <p>OR</p> <ul style="list-style-type: none"> ● Any military rank above E5 (as indicated in box 6a / 6b on DD Form 214) in Informatics or a related Military Occupational Specialty (as indicated in box 16a & b and 17 a & b on DD Form 214) ● Any military rank of E5 or below must verify training and certifications in Informatics or a related Military Occupational Specialty as indicated by VMET on the DD Form 2586 <p>AND</p> <ul style="list-style-type: none"> ● SREB Summer Teacher Training Institute required per course/per teacher
Innovations in Science and Technology (SREB)	<ul style="list-style-type: none"> ● Bachelor's Degree in Engineering or a related field ● NI Certified LabVIEW Developer (CLD) <p>AND</p> <ul style="list-style-type: none"> ● SREB Summer Teacher Training Institute required per course/per teacher <p>OR</p> <ul style="list-style-type: none"> ● One of the Master Level Occupational proficiencies 	<ul style="list-style-type: none"> ● Master's Degree in Innovation in Science and Technology or in a related field <p>AND</p> <ul style="list-style-type: none"> ● 125 hours of earned State-recognized professional learning/technical updates in Innovations in Science and Technology with at least 30 hours earned at the Annual CTE Summer Conference within the valid period of the certificate held <p>AND</p> <ul style="list-style-type: none"> ● SREB Summer Teacher Training Institute required per course/per teacher

³ Higher level expert certifications may be considered for the program area at both the ENTRY LEVEL and MASTER LEVEL.



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Program Area	ENTRY LEVEL Applicable Approaches / Certificates: <ul style="list-style-type: none"> ➤ Bachelor's Equivalent 1 & 2 – Health Science ➤ Bachelor's Equivalent 1 & 2 – Technical Ed ➤ The Additional Teaching Field – Professional ➤ The Additional Teaching Field – Degree Equivalent <p>(Choose ONE of the ● options unless otherwise indicated)</p>	MASTER LEVEL Applicable Approaches / Certificates: <ul style="list-style-type: none"> ➤ Master's Equivalent 3 and Sixth-Year Equivalent 4 – Health Science ➤ Master's Equivalent 3 and 4 – Technical Ed ➤ Sixth-Year Equivalent 5 – Technical Ed ➤ The Additional Teaching Field – Degree Equivalent ➤ The Career and Technical Certificate to a Professional Educator Certificate <p>(Choose ONE of the ● options unless otherwise indicated)</p>
Integrated Production Technologies (SREB)	<ul style="list-style-type: none"> ● NI Certified LabVIEW Associate Developer (CLAD) <p>AND</p> <ul style="list-style-type: none"> ● SREB Summer Teacher Training Institute required per course/per teacher <p>OR</p> <ul style="list-style-type: none"> ● One of the Master Level Occupational proficiencies 	<ul style="list-style-type: none"> ● Any military rank above E5 (as indicated in box 6a / 6b on DD Form 214) in Integrated Production Technologies or a related Military Occupational Specialty (as indicated in box 16a & b and 17 a & b on DD Form 214) ● Any military rank of E5 or below must verify training and certifications in Integrated Production Technologies or a related Military Occupational Specialty as indicated by VMET on the DD Form 2586 <p>OR</p> <ul style="list-style-type: none"> ● MSSC Certified Production Technician <p>AND</p> <ul style="list-style-type: none"> ● MSSC Green Production Certification
Law Enforcement	<ul style="list-style-type: none"> ● APOST Certification or equivalent ● DODPOST Certification or equivalent ● Federal Law Enforcement Training Agency <p>OR</p> <ul style="list-style-type: none"> ● One of the Master Level Occupational Proficiencies 	<ul style="list-style-type: none"> ● APOST Certification or equivalent ● DODPOST Certification or equivalent ● Federal Law Enforcement Training Agency <p>AND</p> <ul style="list-style-type: none"> ● 125 hours of earned State-recognized professional learning/technical updates in Law, Public Safety, Corrections, and Security Cluster with at least 30 hours earned at the Annual CTE Summer Conference within the valid period of the certificate held <p>OR</p> <ul style="list-style-type: none"> ● Bachelor's Degree or higher in a related Law and Public Safety area
Legal Services	<ul style="list-style-type: none"> ● Bachelor's Degree in Criminal Justice ● Associate Degree in Paralegal ● NOCTI-Criminal Justice (5269) <p>OR</p> <ul style="list-style-type: none"> ● One of the Master Level Occupational Proficiencies 	<ul style="list-style-type: none"> ● Master's Degree in Criminal Justice ● Bachelor's Degree in Paralegal ● Juris Doctorate <p>OR</p> <ul style="list-style-type: none"> ● Bachelor's Degree in Criminal Justice <p>AND</p> <ul style="list-style-type: none"> ● NOCTI-Criminal Justice (5269)
Marine Technology	<ul style="list-style-type: none"> ● ABYC Certified Technician ● Associates of Applied Science degree in Marine Technology ● US Coast Guard OUPV Captain's License <p>OR</p> <ul style="list-style-type: none"> ● One of the Master Level Occupational Proficiencies 	<ul style="list-style-type: none"> ● Bachelor's Degree or higher in Marine Engineering Technology ● US Coast Guard Captain's 25/50/100 Ton Master License ● Any military rank above E5 (as indicated in box 6a / 6b on DD Form 214) in Marine Technology or a related Military Occupational Specialty (as indicated in box 16a & b and 17 a & b on DD Form 214) ● Any military rank of E5 or below must verify training and certifications in Marine Technology or a related Military Occupational Specialty as indicated by VMET on the DD Form 2586



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Program Area	ENTRY LEVEL Applicable Approaches / Certificates: <ul style="list-style-type: none"> ➤ Bachelor's Equivalent 1 & 2 – Health Science ➤ Bachelor's Equivalent 1 & 2 – Technical Ed ➤ The Additional Teaching Field – Professional ➤ The Additional Teaching Field – Degree Equivalent <p>(Choose ONE of the ● options unless otherwise indicated)</p>	MASTER LEVEL Applicable Approaches / Certificates: <ul style="list-style-type: none"> ➤ Master's Equivalent 3 and Sixth-Year Equivalent 4 – Health Science ➤ Master's Equivalent 3 and 4 – Technical Ed ➤ Sixth-Year Equivalent 5 – Technical Ed ➤ The Additional Teaching Field – Degree Equivalent ➤ The Career and Technical Certificate to a Professional Educator Certificate <p>(Choose ONE of the ● options unless otherwise indicated)</p>
Masonry	<ul style="list-style-type: none"> ● NCCER¹ Masonry Level One <p>OR</p> <ul style="list-style-type: none"> ● The Master Level Occupational Proficiency 	<ul style="list-style-type: none"> ● NCCER¹ Masonry
Modern Manufacturing	<ul style="list-style-type: none"> ● MSSC Certified Production Technician <p>AND</p> <ul style="list-style-type: none"> ● NCCER¹ ICTP <p>OR</p> <ul style="list-style-type: none"> ● One of the Master Level Occupational Proficiencies 	<ul style="list-style-type: none"> ● Any military rank above E5 (as indicated in box 6a / 6b on DD Form 214) in Manufacturing or a related Military Occupational Specialty (as indicated in box 16a & b and 17 a & b on DD Form 214) ● Any military rank of E5 or below must verify training and certifications in Manufacturing or a related Military Occupational Specialty as indicated by VMET on the DD Form 2586 <p>OR</p> <ul style="list-style-type: none"> ● MSSC Certified Production Technician <p>AND</p> <ul style="list-style-type: none"> ● NCCER¹ ICTP <p>AND</p> <ul style="list-style-type: none"> ● 125 hours of earned State-recognized professional learning/technical updates in Manufacturing with at least 30 hours earned at the Annual CTE Summer Conference within the valid period of the certificate held
Network Systems and Computer Services³	<ul style="list-style-type: none"> ● Certified Ethical Hacker ● Cisco Career Certification (Associate Level) ● CompTIA A+ (<u>Two</u> areas required): <ul style="list-style-type: none"> ○ Core 1 ○ Core 2 ● CompTIA Network+ ● CompTIA Security+ ● Microsoft Certified Solutions Associate (MCSA) ● Microsoft Technology Associate (<u>Two</u> areas required): Exam retiring 06/30/2022 <ul style="list-style-type: none"> ○ Networking Fundamentals ○ Security Fundamentals ○ Mobility and Device Fundamentals ○ Windows Server Administration Fundamentals <p>Notice: MTAs must be earned within five years (60 months) immediately prior to the receipt of the application in the Educator Certification Section of the ALSDE. MTAs taken after June 30, 2022, will not be accepted.</p> <ul style="list-style-type: none"> ● Information Technology Specialist Exam (<u>Two</u> areas required): <ul style="list-style-type: none"> ○ Networking ○ Network Security ○ Device Configuration and Management ○ Cloud Computing ○ Artificial Intelligence <p>OR</p> <ul style="list-style-type: none"> ○ The Master Level Occupational Proficiency 	<ul style="list-style-type: none"> ● Microsoft Technology Associate (<u>Four</u> areas required): Exam retiring 06/30/2022 <ul style="list-style-type: none"> ○ Networking Fundamentals ○ Security Fundamentals ○ Mobility and Device Fundamentals ○ Windows Server Administration Fundamentals <p>Notice: MTAs must be earned within five years (60 months) immediately prior to the receipt of the application in the Educator Certification Section of the ALSDE. MTAs taken after June 30, 2022, will not be accepted.</p> <ul style="list-style-type: none"> ● Information Technology Specialist Exam (<u>Four</u> areas required): <ul style="list-style-type: none"> ○ Networking ○ Network Security ○ Device Configuration and Management ○ Cloud Computing ○ Artificial Intelligence <p>OR</p> <ul style="list-style-type: none"> ● Any military rank above E5 (as indicated in box 6a / 6b on DD Form 214) in Network Systems and Computer Services or a related Military Occupational Specialty (as indicated in box 16a & b and 17 a & b on DD Form 214) ● Any military rank of E5 or below must verify training and certifications in Network Systems and Computer Services or a related Military Occupational Specialty as indicated by VMET on the DD Form 2586

¹ The applicant must achieve the cut score established by NCCER which is included in the specifications available for each of the specific industry craft assessments.

³ Higher level expert certifications may be considered for the program area at both the ENTRY LEVEL and MASTER LEVEL.



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Program Area	ENTRY LEVEL Applicable Approaches / Certificates: <ul style="list-style-type: none"> ➤ Bachelor's Equivalent 1 & 2 – Health Science ➤ Bachelor's Equivalent 1 & 2 – Technical Ed ➤ The Additional Teaching Field – Professional ➤ The Additional Teaching Field – Degree Equivalent <p>(Choose ONE of the ● options unless otherwise indicated)</p>	MASTER LEVEL Applicable Approaches / Certificates: <ul style="list-style-type: none"> ➤ Master's Equivalent 3 and Sixth-Year Equivalent 4 – Health Science ➤ Master's Equivalent 3 and 4 – Technical Ed ➤ Sixth-Year Equivalent 5 – Technical Ed ➤ The Additional Teaching Field – Degree Equivalent ➤ The Career and Technical Certificate to a Professional Educator Certificate <p>(Choose ONE of the ● options unless otherwise indicated)</p>
Plumbing	<ul style="list-style-type: none"> ● NCCER² Industrial Pipefitter ● NCCER² Plumber <p style="text-align: center;">OR</p> <ul style="list-style-type: none"> ● One of the Master Level Occupational Proficiencies 	<ul style="list-style-type: none"> ● NCCER¹ Industrial Pipefitter ● NCCER¹ Plumber ● Alabama Master Plumber License ● Alabama Journeyman Plumber License
Power Equipment	<ul style="list-style-type: none"> ● NOCTI – Small Engine Technology (5277) ● EETC Certified Engine Technician Certification (Passing scores required for <u>all three</u> exams) <ul style="list-style-type: none"> ○ Compact Diesel ○ Two Stroke ○ Four Stroke <p style="text-align: center;">OR</p> <ul style="list-style-type: none"> ● One of the Master Level Occupational Proficiencies 	<ul style="list-style-type: none"> ● EETC Master Technician Certification (Passing scores required for <u>six of the eight</u> exams): <ul style="list-style-type: none"> ○ Two Stroke ○ Four Stroke ○ Drivelines ○ Mechanical Systems ○ Electrical ○ Compact Diesel ○ Generator ○ Reel Technology ● Any military rank above E5 (as indicated in box 6a / 6b on DD Form 214) in Power Equipment or a related Military Occupational Specialty (as indicated in box 16a & b and 17 a & b on DD Form 214) ● Any military rank of E5 or below must verify training and certifications in Power Equipment or a related Military Occupational Specialty as indicated by VMET on the DD Form 2586
Precision Machining	<ul style="list-style-type: none"> ● Turning Operations: Turning Chucking Skills <p style="text-align: center;">OR</p> <ul style="list-style-type: none"> ● NIMS <ul style="list-style-type: none"> ○ Measurement, Materials, & Safety ○ Manual Milling Skills I <p style="text-align: center;">AND</p> <ul style="list-style-type: none"> ● Turning Operations: Turning Between Centers <p style="text-align: center;">OR</p> <ul style="list-style-type: none"> ● One of the Master Level Occupational Proficiencies 	<ul style="list-style-type: none"> ● Any military rank above E5 (as indicated in box 6a / 6b on DD Form 214) in Manufacturing or a related Military Occupational Specialty (as indicated in box 16a & b and 17 a & b on DD Form 214) ● Any military rank of E5 or below must verify training and certifications in Manufacturing or a related Military Occupational Specialty as indicated by VMET on the DD Form 2586 ● CNC Mill II <p style="text-align: center;">OR</p> <ul style="list-style-type: none"> ● Turning Operations: Turning Chucking Skills ● CNC Lathe II
<p>¹ The applicant must achieve the cut score established by NCCER which is included in the specifications available for each of the specific industry craft assessments.</p> <p>² The applicant may achieve either the cut score established by NCCER or a minimum cut score on the NCCER first and second level of their industry-specific craft assessment. The minimum cut score will be determined from the applicant's score report that details the number of correct responses for each module assessed and specific to the industry craft assessment.</p>		



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Programming and Software Development³	<ul style="list-style-type: none"> ● C Programming Language Certified Associate (CLA) ● Microsoft Certified Solutions Developer (MCS D) ● Microsoft Technology Associate (<u>Two</u> areas required): Exam retiring 06/30/2022 <ul style="list-style-type: none"> ○ HTML5 App Development Fundamentals ○ Software Development Fundamentals ○ Introduction to Programming using Java ○ Introduction to Programming using JavaScript ○ Introduction to Programming using Python <p>Notice: MTAs must be earned within five years (60 months) immediately prior to the receipt of the application in the Educator Certification Section of the ALSDE. MTAs taken after June 30, 2022, will not be accepted.</p> <ul style="list-style-type: none"> ● Information Technology Specialist Exam (<u>Two</u> areas required): <ul style="list-style-type: none"> ○ HTML5 Application Development ○ Software Development ○ Java ○ JavaScript ○ Python ● Oracle Certified Associate ● SAS Certified Base Programmer <p>OR</p> <ul style="list-style-type: none"> ● One of the Master Level Occupational Proficiency 	<ul style="list-style-type: none"> ● Microsoft Technology Associate (<u>Five</u> areas required): Exam retiring 06/30/2022 <ul style="list-style-type: none"> ○ HTML5 App Development Fundamentals ○ Software Development Fundamentals ○ Introduction to Programming using Java ○ Introduction to Programming using JavaScript ○ Introduction to Programming using Python <p>Notice: MTAs must be earned within five years (60 months) immediately prior to the receipt of the application in the Educator Certification Section of the ALSDE. MTAs taken after June 30, 2022, will not be accepted.</p> <ul style="list-style-type: none"> ● Information Technology Specialist Exam (Five areas required): <ul style="list-style-type: none"> ○ HTML5 Application Development ○ Software Development ○ Java ○ JavaScript ○ Python ● SAS Certified Advanced Programmer <p>OR</p> <ul style="list-style-type: none"> ● Any military rank above E5 (as indicated in box 6a / 6b on DD Form 214) in Programming and Software Development or a related Military Occupational Specialty (as indicated in box 16a & b and 17 a & b on DD Form 214) ● Any military rank of E5 or below must verify training and certifications in Programming and Software Development or a related Military Occupational Specialty as indicated by VMET on the DD Form 2586
Robotics and Automation	<ul style="list-style-type: none"> ● Electronics Technicians Association CETa Exam <p>OR</p> <ul style="list-style-type: none"> ● One of the Master Level Occupational Proficiencies 	<ul style="list-style-type: none"> ● Electronics Technicians Association Industrial Electronics ● Any military rank above E5 (as indicated in box 6a / 6b on DD Form 214) in Manufacturing or a related Military Occupational Specialty (as indicated in box 16a & b and 17 a & b on DD Form 214) ● Any military rank of E5 or below must verify training and certifications in Robotics or a related Military Occupational Specialty as indicated by VMET on the DD Form 2586 <p>OR</p> <ul style="list-style-type: none"> ● Electronics Technicians Association CETa Exam <p>AND</p> <ul style="list-style-type: none"> ● 125 hours of earned State-recognized professional learning/technical updates in Manufacturing with at least 30 hours earned at the Annual CTE Summer Conference within the valid period of the certificate held

³ Higher level expert certifications may be considered for the program area at both the ENTRY LEVEL and MASTER LEVEL.



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Television Production	<ul style="list-style-type: none"> ● NOCTI – Television Production (5186) <p style="text-align: center;">OR</p> <ul style="list-style-type: none"> ● The Master Level Occupational Proficiency 	<ul style="list-style-type: none"> ● Bachelor's Degree in Broadcast Engineering, Broadcast Journalism, or a related field <p style="text-align: center;">OR</p> <ul style="list-style-type: none"> ● NOCTI – Television Production (5186) <p style="text-align: center;">AND</p> <ul style="list-style-type: none"> ● 125 hours of earned State-recognized professional learning/technical updates in Television Production with at least 30 hours earned at the Annual CTE Summer Conference within the valid period of the certificate held
Welding	<ul style="list-style-type: none"> ● 3 AWS Performance Tests (<u>Two</u> required areas and <u>One</u> additional test (required or optional): <ul style="list-style-type: none"> ○ SMAW 3-G uphill progression D1.1 (required) ○ GTAW 3-G uphill progression (Steel) (required) ○ FCAW 3-G uphill progression D1.1 (required) ○ GTAW 3-G uphill progression (aluminum) D1.2 (optional) ○ GMAW 3-G uphill progression D1.1 (optional) <p style="text-align: center;">OR</p> <ul style="list-style-type: none"> ● The Master Level Occupational Proficiency 	<ul style="list-style-type: none"> ● 5 AWS Performance Tests (<u>Four</u> required areas): <ul style="list-style-type: none"> ○ SMAW 3-G uphill progression D1.1 (required) ○ GTAW 3-G uphill progression (Steel) (required) ○ FCAW 3-G uphill progression D1.1 (required) ○ GTAW 3-G uphill progression (aluminum) D1.2 (optional) ○ GMAW 3-G uphill progression D1.1 (optional) <p style="text-align: center;">OR</p> <ul style="list-style-type: none"> ● AWS CWI Certification
Working in Multicultural Environments: Korean	<ul style="list-style-type: none"> ● National Board of Certified Medical Interpreters Hub – CMI Certification (must be followed by the CMI Certification within two years) ● Certified by the ATA <p style="text-align: center;">OR</p> <ul style="list-style-type: none"> ● One of the Master Level Occupational Proficiencies 	<ul style="list-style-type: none"> ● National Board of Certified Medical Interpreters CMI Certification (must be completed within two years of the Hub – CMI Credential) <p style="text-align: center;">OR</p> <ul style="list-style-type: none"> ● National Board of Certified Medical Interpreters Hub – CMI Certification (must be followed by the CMI Certification within two years) <p style="text-align: center;">AND</p> <ul style="list-style-type: none"> ● Certified by the ATA



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Definitions

ABYC:	American Boat and Yacht Council
ADDA:	American Design Drafting Association
APOST:	Alabama Peace Officer’s Standards and Training
ASE:	Automotive Service Excellence
ATA:	American Translators Association
ATC:	Athletic Training Certification
AWS:	American Welding Society
BLS:	Basic Life Support
CDP:	Certified Drone Photographer (Professional Photographers of America)
CLD:	National Institute Certified LabVIEW Developer
CLAD:	National Institute Certified LabVIEW Associate Developer
CMI:	National Board of Certified Medical Interpreters Certification
CPP:	Certified Professional Photographer (Professional Photographers of America)
CRNP:	Certified Registered Nurse Practitioner
CRT:	Certified Respiratory Therapist
DO:	Doctor of Osteopathic Medicine
DODPOST:	Department of Defense Peace Officer Standards and Training Commission
DVM:	Veterinarian
FAA:	Federal Aviation Administration
LOTR:	Licensed Occupational Therapist
MD:	Medical Doctor
MSSC:	Manufacturing Skills Standards Council
NCCER:	National Center for Construction Education & Research
NIMS:	National Institute for Metalworking Skills
NOCTI:	National Occupation Competency Testing Institute
OT:	Occupational Therapist
OT/L:	Occupational Therapist/Licensed
PharmD	Pharmacist
PLTW:	Project Lead The Way
PT:	Physical Therapist
OTR/L:	Registered Occupational Therapist/Licensed
OUPV:	Operator of Uninspected Passenger Vessels
PA:	Physician Assistant
RN:	Registered Nurse
RPT:	Registered Physical Therapist
RRT:	Registered Respiratory Therapist
RpH:	Pharmacist
SREB:	Southern Regional Education Board
VMET:	Verification of Military Experience and Training



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NOTES

ASE

- For testing specifics <https://www.ase.com/Tests/ASE-Certification-Tests/Test-Series.aspx>

Computer Science / Database Design / Informatics / Network Systems and Computer Services / Programming and Software Development

- ³ Higher level expert certifications may be considered for the program area at both the **Entry Level** and **Master Level**.

Inactive Programs

- ⁴ Forestry: <http://www.giwportal.org/>
- ⁴ Horticulture: <http://www.giwportal.org/>
- Contact Fred Kapp at fkapp@bellsouth.net

NCCER

- ¹ The applicant must achieve the cut score established by NCCER which is included in the specifications available for each of the specific industry craft assessments.
- ² The applicant may achieve either the cut score established by NCCER or a minimum cut score on the NCCER first and second level of their industry-specific craft assessment. The minimum cut score will be determined from the applicant's score report that details the number of correct responses for each module assessed and specific to the industry craft assessment.

Working in Multicultural Environments: Korean

- ATA Certified: https://www.atanet.org/certification/landing_about_exam.php
- CMI Certified: <https://www.certifiedmedicalinterpreters.org/>