

# Trade & Industrial Education Industry Certification Teacher, Student, and Program

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Transportation Cluster Course Name	Course Code	Teacher Certification	Student Certification Available	Program Certification Availability	Certifying Agency
Aviation Maintenance I	5703	<b>Yes</b>	NO	None	FAA (Federal Aviation Administration)
Aviation Maintenance II	5704	<b>Yes</b> FAA (Federal Aviation Administration) A & P License (Airframe & Power plant) or IA License (Inspector Authorization)			
Automotive Technology <ul style="list-style-type: none"> <li>• Automotive: Brake Systems</li> <li>• Automotive: Suspension &amp; Steering</li> <li>• Automotive: Electrical/Electronic Systems</li> <li>• Automotive: Engine Performance</li> </ul>	5712 5710 5713 5711	<b>Yes</b> ASE in courses taught. <ul style="list-style-type: none"> <li>• Brakes,</li> <li>• Steering &amp; Suspension</li> <li>• Electrical/Electronics</li> <li>• Engine Performance</li> </ul>	<b>Yes</b> ASE <ul style="list-style-type: none"> <li>• Brakes,</li> <li>• Steering &amp; Suspension</li> <li>• Electrical/Electronics</li> <li>• Engine Performance</li> </ul>	<b>NATEF</b>	ASE (Automotive Service Excellence) in courses taught. <a href="http://www.asecert.org">www.asecert.org</a>
Collision Repair Technology <ul style="list-style-type: none"> <li>• Collision Repair: Non Structural</li> <li>• Collision Repair: Structural</li> <li>• Collision Repair: Painting &amp; Refinishing</li> </ul>	5707 5708 5709	<b>Yes</b> ASE (Automotive Service Excellence) in courses taught. <ul style="list-style-type: none"> <li>• Painting &amp; Refinishing</li> <li>• Structural Damage &amp; Repair</li> <li>• Non-Structural Damage &amp; Repair</li> <li>• Plastics and Adhesives</li> </ul>	<b>Yes</b> ASE (Automotive Service Excellence) in courses completed <ul style="list-style-type: none"> <li>• Painting &amp; Refinishing</li> <li>• Structural Damage &amp; Repair</li> <li>• Non-Structural Damage &amp; Repair</li> <li>• Plastics and Adhesives</li> </ul>	<b>NATEF</b>	ASE (Automotive Service Excellence) in courses taught. <a href="http://www.asecert.org">www.asecert.org</a>
Diesel Equipment Technology <ul style="list-style-type: none"> <li>• Diesel: Brake Systems</li> <li>• Diesel: Suspension &amp; Steering</li> <li>• Diesel: Electrical/Electronics</li> <li>• Diesel: Preventive Maintenance</li> <li>• Diesel : Engines</li> </ul>	5715 5716 5717 5714 5718	<b>Yes</b> ASE (Automotive Service Excellence) in courses taught. <ul style="list-style-type: none"> <li>• Brakes</li> <li>• Steering &amp; Suspension</li> <li>• Electrical/Electronics</li> <li>• Preventive Maintenance</li> <li>• Engines</li> </ul>	<b>Yes</b> ASE (Automotive Service Excellence) in courses completed <ul style="list-style-type: none"> <li>• Brakes</li> <li>• Steering &amp; Suspension</li> <li>• Electrical/Electronics</li> <li>• Preventive Maintenance</li> <li>• Engines</li> </ul>	<b>NATEF</b>	ASE (Automotive Service Excellence) in courses taught. <a href="http://www.asecert.org">www.asecert.org</a>
Leisure Craft/Small Engine Technology: Systems	5705	<b>None Under review</b>	<b>None Under review</b>	<b>None Under review</b>	NA
Leisure Craft/Small Engine Technology: Engine Performance	5706	<b>None Under review</b>	<b>None Under review</b>	<b>None Under review</b>	NA
Introduction to Aerospace	5719	<b>Yes</b> FAA (Federal Aviation Administration) Ground School Instructor Certification	No	None	FAA (Federal Aviation Administration) Ground School Instructor Certification
Theory of Flight	5720	<b>Yes</b> FAA (Federal Aviation Administration) Ground School Instructor Certification	NO	None	FAA (Federal Aviation Administration) Ground School Instructor Certification

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Construction Cluster Course Name	Course Code	Teacher Certification	Student Certification Available	Program Certification Availability	Certifying Agency
Construction Core	5730	<b>Yes</b> U.S. Department of Labor, BAT (Bureau of Apprenticeship and Training) Journey Person Level in any construction area or NCCER (National Center for Construction Education and Research) Wheels of Learning Curriculum	<b>Yes</b> Student certification through NCCER at the completion of course for Construction Core	<b>NCCER</b>	U.S. Department of Labor, BAT (Bureau of Apprenticeship and Training) Journey Person Level or <a href="http://www.doleta.gov/bat/index.htm">www.doleta.gov/bat/index.htm</a> NCCER (National Center for Construction Education and Research) Wheels of Learning Curriculum <a href="http://www.nccer.org">www.nccer.org</a>
Carpentry I Carpentry II	5731 5732	<b>Yes</b> U.S. Department of Labor, BAT (Bureau of Apprenticeship and Training) Journey Person Level Carpentry or NCCER (National Center for Construction Education and Research) Wheels of Learning Curriculum - Carpentry	<b>Yes</b> Student certification Level I Carpentry through NCCER at the completion of Carpentry II	<b>NCCER</b>	U.S. Department of Labor, BAT (Bureau of Apprenticeship and Training) Journey Person Level or <a href="http://www.doleta.gov/bat/index.htm">www.doleta.gov/bat/index.htm</a> NCCER (National Center for Construction Education and Research) Wheels of Learning Curriculum or <a href="http://www.nccer.org">www.nccer.org</a> Masonry Institute of Tennessee
Concrete I Concrete II Masonry I Masonry II	5737 5738 5735 5736	<b>Yes</b> U.S. Department of Labor, BAT (Bureau of Apprenticeship and Training) Journey Person Level Concrete or Masonry or NCCER (National Center for Construction Education and Research) Wheels of Learning Curriculum - Concrete or Masonry	<b>Yes</b> Student certification Level I Concrete through NCCER at the completion of Concrete II Student certification Level I Masonry through NCCER at the completion of Masonry II	<b>NCCER</b>	U.S. Department of Labor, BAT (Bureau of Apprenticeship and Training) Journey Person Level or <a href="http://www.doleta.gov/bat/index.htm">www.doleta.gov/bat/index.htm</a> NCCER (National Center for Construction Education and Research) Wheels of Learning Curriculum or <a href="http://www.nccer.org">www.nccer.org</a> Masonry Institute of Tennessee
Electrical I Electrical II	5733 5734	<b>Yes</b> U.S. Department of Labor, BAT (Bureau of Apprenticeship and Training) Journey Person Level Electrical or NCCER (National Center for Construction Education and Research) Wheels of Learning Curriculum - Electrical	<b>Yes</b> Student certification Level I Electrical through NCCER at the completion of Electrical II	<b>NCCER</b>	U.S. Department of Labor, BAT (Bureau of Apprenticeship and Training) Journey Person Level or <a href="http://www.doleta.gov/bat/index.htm">www.doleta.gov/bat/index.htm</a> NCCER (National Center for Construction Education and Research) Wheels of Learning Curriculum or <a href="http://www.nccer.org">www.nccer.org</a> Tennessee Electrician License

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Construction Cluster Course Name	Course Code	Teacher Certification	Student Certification Available	Program Certification Availability	Certifying Agency
Heating, Ventilation, Air Conditioning, and Refrigeration (HVAC) I  Heating, Ventilation, Air Conditioning, and Refrigeration (HVAC) II	5741  5742	<b>Yes</b> U.S. Department of Labor, BAT (Bureau of Apprenticeship and Training) Journey Person Level Electrical, Plumbing & Pipe Fitting, HVACR or NCCER (National Center for Construction Education and Research) Wheels of Learning Curriculum - HVACR or Electrical Or HVAC Excellence (effective 2008 )	<b>Yes</b> Student certification Level I HVACR through NCCER at the completion of HVACR II and Student certification in HVAC Excellence ( HVAC Excellence effective 2008 )	<b>NCCER or HVAC Excellence (HVAC Excellence effective Fall 2008 )</b>	U.S. Department of Labor, BAT (Bureau of Apprenticeship and Training) Journey Person Level or <a href="http://www.doleta.gov/bat/index.htm">www.doleta.gov/bat/index.htm</a> NCCER (National Center for Construction Education and Research) Wheels of Learning Curriculum or <a href="http://www.nccer.org">www.nccer.org</a> RSES (Refrigeration Service Engineers Society) or <a href="http://www.rses.org">www.rses.org</a> or NATE (North American Technician Excellence) <a href="http://www.natex.org">www.natex.org</a> <a href="http://www.natex.org/curriculum.htm">www.natex.org/curriculum.htm</a> <a href="http://www.hvacexcellence.org">www.hvacexcellence.org</a>
Plumbing I  Plumbing II	5739  5740	<b>Yes</b> U.S. Department of Labor, BAT (Bureau of Apprenticeship and Training) Journey Person Level Plumbing or Pipe Fitting or NCCER (National Center for Construction Education and Research) Wheels of Learning Curriculum - Plumbing or Pip Fitting	<b>Yes</b> Student certification Level I Plumbing through NCCER at the completion of Plumbing II	<b>NCCER</b>	U.S. Department of Labor, BAT (Bureau of Apprenticeship and Training) Journey Person Level or <a href="http://www.doleta.gov/bat/index.htm">www.doleta.gov/bat/index.htm</a> NCCER (National Center for Construction Education and Research) Wheels of Learning Curriculum <a href="http://www.nccer.org">www.nccer.org</a>
Basic Principles of Welding  Advanced Welding Applications	5786  5787	<b>Yes</b> AWS (American Welding Society) Certified Welder in FCAW, GTAW, GMAW, SMAW or CWE, or CWI. or Apprenticeship Training) Journey Person Level in Welding or Pipe Fitting or NCCER (National Center for Construction Education and Research) Wheels of Learning Curriculum - Welding	<b>Yes</b> AWS Certification FCAW, GTAW, GMAW, SMAW or CWE, or CWI at completion of Welding Applications NCCER Certification on courses completed.	<b>S.E.N.S.E through AWS</b>	AWS (American Welding Society) Certified Welder in FCAW, GTAW, GMAW, SMAW or CWE, or CWI. <a href="http://www.aws.org">www.aws.org</a> or Apprenticeship Training) Journey Person Level <a href="http://www.doleta.gov/bat/index.htm">www.doleta.gov/bat/index.htm</a> or NCCER (National Center for Construction Education and Research) Wheels of Learning Curriculum <a href="http://www.nccer.org">www.nccer.org</a>
Computer Aided Drafting Advanced Computer Aided Drafting	5788 5789	<b>Yes</b> ADDA (American Design and Drafting Association)	<b>Yes</b> ADDA (American Design and Drafting Association) at completion of Advanced Computer Aided Design	<b>None</b>	ADDA (American Design Drafting Association <a href="http://www.adda.org">www.adda.org</a>

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Arts and Communication Cluster	Course Code	Teacher Certification	Student Certification Available	Program Certification Availability	Certifying Agency
Information Technology Foundations	5755	<b>Yes</b> A+ or NetPlus or CIW or CISCO	None	None	CompTIA (Computing Technology Industry Association) A-Plus Certification Or CompTIA (Computing Technology Industry Association) Net-Plus Certification
Computer Operating Systems and Hardware	5756	<b>Yes</b> A+ or CISCO	<b>Yes</b> A+	None	CompTIA (Computing Technology Industry Association) A-Plus Certification <a href="http://www.comptia.org">www.comptia.org</a>
Networking	5757	<b>Yes</b> NetPlus or CISCO	<b>Yes</b> NetPlus	None	CompTIA (Computing Technology Industry Association) Net-Plus Certification <a href="http://www.comptia.org">www.comptia.org</a>
Web Site I – Foundations Web Page Design II – Site Designer Web Page Design III - eCommerce	5766 & 5767	<b>Yes</b> Web Site I – Foundations. CIW Associate Foundation Certification Web Page Design II-Site Designer, CIW Site Designer Web Page Design III – eCommerce, CIW eCommerce Designer	<b>Yes</b> Web Site I – Foundations. CIW Associate Foundation Certification Web Page Design II-Site Designer, CIW Site Designer Web Page Design III – eCommerce, CIW eCommerce Designer	None	CIW (Certified Internet Webmaster) <a href="http://www.computerprep.comf">www.computerprep.comf</a> Web Site I – Foundations. CIW Associate Foundation Certification Web Page Design II-Site Designer, CIW Site Designer Web Page Design III – eCommerce, CIW eCommerce Designer <b>*The footnote on 595 reads: "Individuals with this endorsement would have three years from the school year they begin teaching this course (including that school year) to obtain required industry certification. This would be true regardless of whether the person taught all three years consecutively or not *Footnote from The Correlation of Course and Endorsement Codes document</b>
Visual Communications Digital Design and Imaging	5759 5762	None <b>Digital Technician Effective Fall 2010 for 5762</b>	None	None	ADDA (American Design Drafting Association) <a href="http://www.adda.org">www.adda.org</a>
Graphic Communications I Graphic Communications II	5760 5761 5762	None	None	PrintED	<a href="http://www.PrintED.org">www.PrintED.org</a>
Media Concepts Electronic Media Productions Electronic Media Management & Operations	5763 5764 5765	None	None	None	
Audio Technology I Audio technology II	5770 5771	<b>ProTools Effective 2011</b>	<b>ProTools effective 2011</b>	None	

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Manufacturing Cluster	Course #	Teacher Certification	Student Certification Available	Program Cert. Availability	
Programming & Logic	5780	<b>Yes NIMS effective Fall 2010</b>	<b>Yes NIMS effective Fall 2010</b>	(being reviewed)	National Institute for Metalworking Skills <a href="http://www.NIMS-SKILLS.ORG">www.NIMS-SKILLS.ORG</a>
Principles of Manufacturing	5781	<b>Yes NIMS effective Fall 2010</b>	<b>Yes NIMS effective Fall 2010</b>	(being reviewed)	National Institute for Metalworking Skills <a href="http://www.NIMS-SKILLS.ORG">www.NIMS-SKILLS.ORG</a>
Computer Aided Drafting Advanced Computer Aided Drafting	5788 5789	<b>Yes</b> ADDA (American Design and Drafting Association)	<b>Yes</b> ADDA (American Design and Drafting Association) at completion of Advanced Computer Aided Design	None	ADDA (American Design Drafting Association) <a href="http://www.adda.org">www.adda.org</a>
Principles of Engineering	5784	None	None	None	None
Principles of Machining and Manufacturing	5782	<b>Yes NIMS effective Fall 2010</b>	<b>Yes NIMS effective Fall 2010</b>	NIMS (Being Reviewed)	National Institute for Metalworking Skills <a href="http://www.NIMS-SKILLS.ORG">www.NIMS-SKILLS.ORG</a>
Manufacturing Applications	5785	<b>Yes NIMS effective Fall 2010</b>	<b>Yes NIMS effective Fall 2010</b>	NIMS (Being Reviewed)	National Institute for Metalworking Skills <a href="http://www.NIMS-SKILLS.ORG">www.NIMS-SKILLS.ORG</a>
Digital Electronics	5783	<b>Yes NIMS effective Fall 2010</b>	<b>Yes NIMS effective Fall 2010</b>	None	National Institute for Metalworking Skills <a href="http://www.NIMS-SKILLS.ORG">www.NIMS-SKILLS.ORG</a>
Basic Principles of Welding  Advanced Welding Applications	5786  5787	<b>Yes</b> AWS (American Welding Society) Certified Welder in FCAW, GTAW, GMAW, SMAW or CWE, or CWI. or Apprenticeship Training) Journey Person Level in Welding or Pipe Fitting or NCCER (National Center for Construction Education and Research) Wheels of Learning Curriculum - Welding	<b>Yes</b> AWS Certification FCAW, GTAW, GMAW, SMAW or CWE, or CWI at completion of Welding Applications NCCER Certification on courses completed.	S.E.N.S.E through AWS	AWS (American Welding Society) Certified Welder in FCAW, GTAW, GMAW, SMAW or CWE, or CWI. <a href="http://www.aws.org">www.aws.org</a> or Apprenticeship Training) Journey Person Level <a href="http://www.doleta.gov/bat/index.htm">www.doleta.gov/bat/index.htm</a> or NCCER (National Center for Construction Education and Research) Wheels of Learning Curriculum <a href="http://www.nccer.org">www.nccer.org</a>

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Principles of Engineering	5791	<b>Yes</b> Any T&I endorsement with successful completion of PLTW training	Student Assessment	PLTW	PLTW ( Project Lead the Way) <a href="http://www.pltw.org">http://www.pltw.org</a>
Digital Electronics (PLTW)	5792	<b>Yes</b> Any T&I endorsement with successful completion of PLTW training	Student Assessment	PLTW	PLTW ( Project Lead the Way) <a href="http://www.pltw.org">http://www.pltw.org</a>
Introduction To Engineering Design (PLTW)	5793	<b>Yes</b> Any T&I endorsement with successful completion of PLTW training	Student Assessment	PLTW	PLTW ( Project Lead the Way) <a href="http://www.pltw.org">http://www.pltw.org</a>
Computer Integrated Manufacturing (PLTW)	5794	<b>Yes</b> Any T&I endorsement with successful completion of PLTW training	Student Assessment	PLTW	PLTW ( Project Lead the Way) <a href="http://www.pltw.org">http://www.pltw.org</a>
Civil Engineering and Architecture (PLTW)	5795	<b>Yes</b> Any T&I endorsement with successful completion of PLTW training	Student Assessment	PLTW	PLTW ( Project Lead the Way) <a href="http://www.pltw.org">http://www.pltw.org</a>
Aerospace Engineering (PLTW)	5796	<b>Yes</b> Any T&I endorsement with successful completion of PLTW training	Student Assessment	PLTW	PLTW ( Project Lead the Way) <a href="http://www.pltw.org">http://www.pltw.org</a>
Biotechnical Engineering (PLTW)	5797	<b>Yes</b> Any T&I endorsement with successful completion of PLTW training	Student Assessment	PLTW	PLTW ( Project Lead the Way) <a href="http://www.pltw.org">http://www.pltw.org</a>
Engineering Design and Development (PLTW) Capstone Course	5798	<b>Yes</b> Any T&I endorsement with successful completion of PLTW training	Student Assessment	PLTW	PLTW ( Project Lead the Way) <a href="http://www.pltw.org">http://www.pltw.org</a>

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Human Resources Cluster Course Name	Course Number	Teacher Certification	Student Certification Available	Program Certification Availability	Certifying Agency
Principles of Cosmetology	5338	<b>Yes</b> Tennessee Cosmetology Instructor License	<b>Yes</b> Students with 300 hours and a concentration in Shampooing may take the TN Board of Cosmetology Shampooing Exam.	None	Tennessee State Board of Cosmetology
Design Principles of Cosmetology	5339	<b>Yes</b> Tennessee Cosmetology Instructor License		None	Tennessee State Board of Cosmetology
Chemistry of Cosmetology	5340	<b>Yes</b> Tennessee Cosmetology Instructor License	<b>Yes</b> Students with 600 hours and concentration in Manicuring may take the Tennessee Board of Cosmetology Manicuring Exam. Students with 1500 hours in cosmetology may take the Tennessee Board of Cosmetology Exam.	None	Tennessee State Board of Cosmetology
Criminal Justice I, II, & III	5330 5331 5342	<b>Yes TN Police Academy Certification effective 2011</b>	None	None	
Hospitality & Tourism Course Name	Course Code	Teacher Certification	Student Certification Available	Program Certification Availability	Certifying Agency
Culinary Arts I, II, & III	5381, 5382, 5383	<b>Yes</b> Serve-Safe, or National Registry of Food Safety Professionals or CCE Culinary Chef Educator	<b>Yes</b> Serve-Safe, or National Registry of Food Safety Professionals or CCE Culinary Chef Educator	ACCESS through the American Culinary Federation	Safe Serve - Serving Safe Food, or National Registry of Food Safety Professionals or CCE Culinary Chef Educator