

**Maryland Career and Technology Education Programs of Study CCR-CCA of 2013 -  
Technical Skill Assessment Chart by Career Clusters and Programs of Study**

NOTE: These assessments only apply to students who are completing a State Approved Career and Technology Education (CTE) Program of Study.

Career Cluster	CIP TITLE	TSA Codes	ADA	Technical Skill Assessment	Specific Criteria	Websites for Additional Information
Arts, Media, and Communication	Graphic Communications (PrintED)	011001	2	Introduction to Graphic Communications assessment plus Graphic Design assessment	Students must pass the Introduction to Graphic Communications assessment plus one (1) specialty assessment from the following list: (1) Graphic Design; (2) Digital File Preparation/Digital File Output; (3) Offset Press: Operations/Binding and Finishing; (4) Digital Production and Printing; or (5) Screen Printing Technology	<a href="http://www.gaerf.org">www.gaerf.org</a> ; <a href="http://www.workforcereadysystem.org">www.workforcereadysystem.org</a>
Arts, Media, and Communication	Graphic Communications (PrintED)	011002	2	Graphic Communication assessment plus Digital File Preparation/Digital File Output assessment	Students must pass the Introduction to Graphic Communications assessment plus one (1) specialty assessment from the following list: (1) Graphic Design; (2) Digital File Preparation/Digital File Output; (3) Offset Press: Operations/Binding and Finishing; (4) Digital Production and Printing; or (5) Screen Printing Technology	<a href="http://www.gaerf.org">www.gaerf.org</a> ; <a href="http://www.workforcereadysystem.org">www.workforcereadysystem.org</a>
Arts, Media, and Communication	Graphic Communications (PrintED)	011003	2	Graphic Communication assessment plus Offset Press assessment	Students must pass the Introduction to Graphic Communications assessment plus one (1) specialty assessment from the following list: (1) Graphic Design; (2) Digital File Preparation/Digital File Output; (3) Offset Press: Operations/Binding and Finishing; (4) Digital Production and Printing; or (5) Screen Printing Technology	<a href="http://www.gaerf.org">www.gaerf.org</a> ; <a href="http://www.workforcereadysystem.org">www.workforcereadysystem.org</a>
Arts, Media, and Communication	Graphic Communications (PrintED)	011010	2	Graphic Communication assessment plus Digital Production and Printing assessment	Students must pass the Introduction to Graphic Communications assessment plus one (1) specialty assessment from the following list: (1) Graphic Design; (2) Digital File Preparation/Digital File Output; (3) Offset Press: Operations/Binding and Finishing; (4) Digital Production and Printing; or (5) Screen Printing Technology	<a href="http://www.gaerf.org">www.gaerf.org</a> ; <a href="http://www.workforcereadysystem.org">www.workforcereadysystem.org</a>
Arts, Media, and Communication	Graphic Communications (PrintED)	011011	2	Graphic Communication assessment plus Screen Printing Technology assessment	Students must pass the Introduction to Graphic Communications assessment plus one (1) specialty assessment from the following list: (1) Graphic Design; (2) Digital File Preparation/Digital File Output; (3) Offset Press: Operations/Binding and Finishing; (4) Digital Production and Printing; or (5) Screen Printing Technology	<a href="http://www.gaerf.org">www.gaerf.org</a> ; <a href="http://www.workforcereadysystem.org">www.workforcereadysystem.org</a>
Arts, Media, and Communication	Graphic Communications (PrintED)	111090	5	State Skill Certificate	The State Skill Certificate verifies the skills obtained during a students' apprenticeship. To receive the certificate, students must complete a minimum of 450 hours of work-based training and one year of related classroom instruction.	
Arts, Media, and Communication	Graphic Communications (PrintED)	011099	5	College Credit	Based on articulation agreements and dual enrollment options in the program, students can obtain TSAs once they have passed course requirements and are eligible to receive college credit.	
Arts, Media, and Communication	Interactive Media Production	011005	6	Adobe Dreamweaver Certification	There are five certifications in Adobe Creative Suite. Students can obtain TSA by passing one of the following exams: Dreamweaver, Illustrator, InDesign, Photoshop or Premiere Pro.	<a href="http://www.adobe.com/support/certification/ace_certify.html">http://www.adobe.com/support/certification/ace_certify.html</a>

Career Cluster	CIP TITLE	TSA Codes	ADA	Technical Skill Assessment	Specific Criteria	Websites for Additional Information
Arts, Media, and Communication	Interactive Media Production	011006	6	Adobe Illustrator Certification	There are five certifications in Adobe Creative Suite. Students can obtain TSA by passing one of the following exams: Dreamweaver, Illustrator, InDesign, Photoshop or Premiere Pro.	<a href="http://www.adobe.com/support/certification/ace_certify.html">http://www.adobe.com/support/certification/ace_certify.html</a>
Arts, Media, and Communication	Interactive Media Production	011007	6	Adobe InDesign Certification	There are five certifications in Adobe Creative Suite. Students can obtain TSA by passing one of the following exams: Dreamweaver, Illustrator, InDesign, Photoshop or Premiere Pro.	<a href="http://www.adobe.com/support/certification/ace_certify.html">http://www.adobe.com/support/certification/ace_certify.html</a>
Arts, Media, and Communication	Interactive Media Production	011008	6	Adobe Photoshop Certification	There are five certifications in Adobe Creative Suite. Students can obtain TSA by passing one of the following exams: Dreamweaver, Illustrator, InDesign, Photoshop or Premiere Pro.	<a href="http://www.adobe.com/support/certification/ace_certify.html">http://www.adobe.com/support/certification/ace_certify.html</a>
Arts, Media, and Communication	Interactive Media Production	011009	6	Adobe Premiere Pro Certification	There are five certifications in Adobe Creative Suite. Students can obtain TSA by passing one of the following exams: Dreamweaver, Illustrator, InDesign, Photoshop or Premiere Pro.	<a href="http://www.adobe.com/support/certification/ace_certify.html">http://www.adobe.com/support/certification/ace_certify.html</a>
Arts, Media, and Communication	Interactive Media Production	111090	S	State Skill Certificate	The State Skill Certificate verifies the skills obtained during a students' apprenticeship. To receive the certificate, students must complete a minimum of 450 hours of work-based training and one year of related classroom instruction.	
Arts, Media, and Communication	Interactive Media Production	011099	S	College Credit	Based on articulation agreements and dual enrollment options in the program, students can obtain TSAs once they have passed course requirements and are eligible to receive college credit.	
Arts, Media, and Communication	Audiovisual Communications and Broadcast Technologies	011005	6	Adobe Dreamweaver Certification	There are five certifications in Adobe Creative Suite. Students can obtain TSA by passing one of the following exams: Dreamweaver, Illustrator, InDesign, Photoshop or Premiere Pro.	<a href="http://www.adobe.com/support/certification/ace_certify.html">http://www.adobe.com/support/certification/ace_certify.html</a>
Arts, Media, and Communication	Audiovisual Communications and Broadcast Technologies	011006	6	Adobe Illustrator Certification	There are five certifications in Adobe Creative Suite. Students can obtain TSA by passing one of the following exams: Dreamweaver, Illustrator, InDesign, Photoshop or Premiere Pro.	<a href="http://www.adobe.com/support/certification/ace_certify.html">http://www.adobe.com/support/certification/ace_certify.html</a>
Arts, Media, and Communication	Audiovisual Communications and Broadcast Technologies	011007	6	Adobe InDesign Certification	There are five certifications in Adobe Creative Suite. Students can obtain TSA by passing one of the following exams: Dreamweaver, Illustrator, InDesign, Photoshop or Premiere Pro.	<a href="http://www.adobe.com/support/certification/ace_certify.html">http://www.adobe.com/support/certification/ace_certify.html</a>
Arts, Media, and Communication	Audiovisual Communications and Broadcast Technologies	011008	6	Adobe Photoshop Certification	There are five certifications in Adobe Creative Suite. Students can obtain TSA by passing one of the following exams: Dreamweaver, Illustrator, InDesign, Photoshop or Premiere Pro.	<a href="http://www.adobe.com/support/certification/ace_certify.html">http://www.adobe.com/support/certification/ace_certify.html</a>
Arts, Media, and Communication	Audiovisual Communications and Broadcast Technologies	011009	6	Adobe Premiere Pro Certification	There are five certifications in Adobe Creative Suite. Students can obtain TSA by passing one of the following exams: Dreamweaver, Illustrator, InDesign, Photoshop or Premiere Pro.	<a href="http://www.adobe.com/support/certification/ace_certify.html">http://www.adobe.com/support/certification/ace_certify.html</a>

Career Cluster	CIP TITLE	TSA Codes	ADA	Technical Skill Assessment	Specific Criteria	Websites for Additional Information
Arts, Media, and Communication	Audiovisual Communications and Broadcast Technologies	111090	S	State Skill Certificate	The State Skill Certificate verifies the skills obtained during a students' apprenticeship. To receive the certificate, students must complete a minimum of 450 hours of work-based training and one year of related classroom instruction.	
Arts, Media, and Communication	Audiovisual Communications and Broadcast Technologies	011099	S	College Credit	Based on articulation agreements and dual enrollment options in the program, students can obtain TSAs once they have passed course requirements and are eligible to receive college credit.	
Arts, Media, and Communication	Digital Arts	011005	6	Adobe Dreamweaver Certification	There are five certifications in Adobe Creative Suite. Students can obtain TSA by passing one of the following exams: Dreamweaver, Illustrator, InDesign, Photoshop or Premiere Pro	<a href="http://www.adobe.com/support/certification/ace_certify.html">http://www.adobe.com/support/certification/ace_certify.html</a>
Arts, Media, and Communication	Digital Arts	011006	6	Adobe Illustrator Certification	There are five certifications in Adobe Creative Suite. Students can obtain TSA by passing one of the following exams: Dreamweaver, Illustrator, InDesign, Photoshop or Premiere Pro	<a href="http://www.adobe.com/support/certification/ace_certify.html">http://www.adobe.com/support/certification/ace_certify.html</a>
Arts, Media, and Communication	Digital Arts	011007	6	Adobe InDesign Certification	There are five certifications in Adobe Creative Suite. Students can obtain TSA by passing one of the following exams: Dreamweaver, Illustrator, InDesign, Photoshop or Premiere Pro	<a href="http://www.adobe.com/support/certification/ace_certify.html">http://www.adobe.com/support/certification/ace_certify.html</a>
Arts, Media, and Communication	Digital Arts	011008	6	Adobe Photoshop Certification	There are five certifications in Adobe Creative Suite. Students can obtain TSA by passing one of the following exams: Dreamweaver, Illustrator, InDesign, Photoshop or Premiere Pro	<a href="http://www.adobe.com/support/certification/ace_certify.html">http://www.adobe.com/support/certification/ace_certify.html</a>
Arts, Media, and Communication	Digital Arts	011009	6	Adobe Premiere Pro Certification	There are five certifications in Adobe Creative Suite. Students can obtain TSA by passing one of the following exams: Dreamweaver, Illustrator, InDesign, Photoshop or Premiere Pro	<a href="http://www.adobe.com/support/certification/ace_certify.html">http://www.adobe.com/support/certification/ace_certify.html</a>
Arts, Media, and Communication	Digital Arts	111090	S	State Skill Certificate	The State Skill Certificate verifies the skills obtained during a students' apprenticeship. To receive the certificate, students must complete a minimum of 450 hours of work-based training and one year of related classroom instruction.	
Arts, Media, and Communication	Digital Arts	011099	S	College Credit	Based on articulation agreements and dual enrollment options in the program, students can obtain TSAs once they have passed course requirements and are eligible to receive college credit.	
Business Management and Finance	Business Management	021007	1	Institute for the Assessment of the Skills and Knowledge of Business: Entrepreneurship/ Management- NEW	The A*S*K Business Institute certification assessment in Entrepreneurship/ Management measures technical skills at the occupational level and includes items which gauge factual and theoretical knowledge. This assessment consists of a written assessment that can be administered in 1, 2 or 3 sessions.	<a href="http://www.askinstitute.org">http://www.askinstitute.org</a>

Career Cluster	CIP TITLE	TSA Codes	ADA	Technical Skill Assessment	Specific Criteria	Websites for Additional Information
Business Management and Finance	Business Management	021010	1	Institute for the Assessment of the Skills and Knowledge of Business: Fundamental Business Concepts- NEW	The A*S*K Business Institute certification assessment in Fundamental Business Concepts measures technical skills at the occupational level and includes items which gauge factual and theoretical knowledge. This assessment consists of a written assessment that can be administered in 1, 2 or 3 sessions.	<a href="http://www.askinstitute.org">http://www.askinstitute.org</a>
Business Management and Finance	Business Management	021002	10	CLEP Principles of Management Assessment	Depending on the college, students may be eligible to earn college credit with a score of 50 or better on the CLEP exam.	<a href="https://clep.collegeboard.org">https://clep.collegeboard.org</a>
Business Management and Finance	Business Management	021011	10	AP Microeconomics Exam	Depending on the college, students may be eligible to earn college credit with a score of 3 or better on the AP exam.	<a href="http://apcentral.collegeboard.com/home">http://apcentral.collegeboard.com/home</a>
Business Management and Finance	Business Management	021012	10	AP Macroeconomics Exam	Depending on the college, students may be eligible to earn college credit with a score of 3 or better on the AP exam.	<a href="http://apcentral.collegeboard.com/home">http://apcentral.collegeboard.com/home</a>
Business Management and Finance	Business Management	111090	S	State Skill Certificate	The State Skill Certificate verifies the skills obtained during a students' apprenticeship. To receive the certificate, students must complete a minimum of 450 hours of work-based training and one year of related classroom instruction.	
Business Management and Finance	Business Management	021099	S	College Credit	Based on articulation agreements and dual enrollment options in the program, students can obtain TSAs once they have passed course requirements and are eligible to receive college credit.	
Business Management and Finance	Accounting and Finance	021008	1	Institute for the Assessment of the Skills and Knowledge of Business: Finance- NEW	The A*S*K Business Institute certification assessment in Finance measures technical skills at the occupational level and includes items which gauge factual and theoretical knowledge. This assessment consists of a written assessment that can be administered in 1, 2 or 3 sessions.	<a href="http://www.askinstitute.org">http://www.askinstitute.org</a>
Business Management and Finance	Accounting and Finance	021010	1	Institute for the Assessment of the Skills and Knowledge of Business: Fundamental Business Concepts- NEW	The A*S*K Business Institute certification assessment in Fundamental Business Concepts measures technical skills at the occupational level and includes items which gauge factual and theoretical knowledge. This assessment consists of a written assessment that can be administered in 1, 2 or 3 sessions.	<a href="http://www.askinstitute.org">http://www.askinstitute.org</a>
Business Management and Finance	Accounting and Finance	021003	10	CLEP Finance and Accounting Assessment	Depending on the college, students may be eligible to earn college credit with a score of 50 or better on the CLEP exam.	<a href="https://clep.collegeboard.org">https://clep.collegeboard.org</a>
Business Management and Finance	Accounting and Finance	021011	10	AP Microeconomics Exam	Depending on the college, students may be eligible to earn college credit with a score of 3 or better on the AP exam.	<a href="http://apcentral.collegeboard.com/home">http://apcentral.collegeboard.com/home</a>
Business Management and Finance	Accounting and Finance	021012	10	AP Macroeconomics Exam	Depending on the college, students may be eligible to earn college credit with a score of 3 or better on the AP exam.	<a href="http://apcentral.collegeboard.com/home">http://apcentral.collegeboard.com/home</a>
Business Management and Finance	Accounting and Finance	111090	S	State Skill Certificate	The State Skill Certificate verifies the skills obtained during a students' apprenticeship. To receive the certificate, students must complete a minimum of 450 hours of work-based training and one year of related classroom instruction.	
Business Management and Finance	Accounting and Finance	021099	S	College Credit	Based on articulation agreements and dual enrollment options in the program, students can obtain TSAs once they have passed course requirements and are eligible to receive college credit.	
Business Management and Finance	Academy of Finance (NAF)	021006	S	NAF-Track Certification	NAF-Track Certification includes passing end of course exams, portfolio review, and internship requirements.	<a href="http://naf.org/our-approach/naftack">naf.org/our-approach/naftack</a>

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Business Management and Finance	Academy of Finance (NAF)	111090	S	State Skill Certificate	The State Skill Certificate verifies the skills obtained during a students' apprenticeship. To receive the certificate, students must complete a minimum of 450 hours of work-based training and one year of related classroom instruction.	
Business Management and Finance	Academy of Finance (NAF)	021099	S	College Credit	Based on articulation agreements and dual enrollment options in the program, students can obtain TSAs once they have passed course requirements and are eligible to receive college credit.	
Business Management and Finance	Marketing	021009	1	Institute for the Assessment of the Skills and Knowledge of Business: Fundamental Marketing Concepts- NEW	The A*S*K Business Institute certification assessment in Fundamental Marketing Concepts measures technical skills at the occupational level and includes items which gauge factual and theoretical knowledge. This assessment consists of a written assessment that can be administered in one, two or three sessions.	<a href="http://www.askinstitute.org">http://www.askinstitute.org</a>
Business Management and Finance	Marketing	021010	1	Institute for the Assessment of the Skills and Knowledge of Business: Fundamental Business Concepts- NEW	The A*S*K Business Institute certification assessment in Fundamental Business Concepts measures technical skills at the occupational level and includes items which gauge factual and theoretical knowledge. This assessment consists of a written assessment that can be administered in 1, 2 or 3 sessions.	<a href="http://www.askinstitute.org">http://www.askinstitute.org</a>
Business Management and Finance	Marketing	021004	10	CLEP Marketing Assessment	Depending on the college, students may be eligible to earn college credit with a score of 50 or better on the CLEP exam.	<a href="https://clep.collegeboard.org">https://clep.collegeboard.org</a>
Business Management and Finance	Marketing	021011	10	AP Microeconomics Exam	Depending on the college, students may be eligible to earn college credit with a score of 3 or better on the AP exam.	<a href="http://apcentral.collegeboard.com/home">http://apcentral.collegeboard.com/home</a>
Business Management and Finance	Marketing	021012	10	AP Macroeconomics Exam	Depending on the college, students may be eligible to earn college credit with a score of 3 or better on the AP exam.	<a href="http://apcentral.collegeboard.com/home">http://apcentral.collegeboard.com/home</a>
Business Management and Finance	Marketing	111090	S	State Skill Certificate	The State Skill Certificate verifies the skills obtained during a students' apprenticeship. To receive the certificate, students must complete a minimum of 450 hours of work-based training and one year of related classroom instruction.	
Business Management and Finance	Marketing	021099	S	College Credit	Based on articulation agreements and dual enrollment options in the program, students can obtain TSAs once they have passed course requirements and are eligible to receive college credit.	
Business Management and Finance	Business Administrative Services	021010	1	Institute for the Assessment of the Skills and Knowledge of Business: Fundamental Business Concepts- NEW	The A*S*K Business Institute certification assessment in Fundamental Business Concepts measures technical skills at the occupational level and includes items which gauge factual and theoretical knowledge. This assessment consists of a written assessment that can be administered in 1, 2 or 3 sessions.	<a href="http://www.askinstitute.org">http://www.askinstitute.org</a>
Business Management and Finance	Business Administrative Services	021005	6	Microsoft Office Specialist Certification	Pass both the Microsoft Office Word and Excel exams to earn the MOS certification	<a href="http://www.microsoft.com/en-us/learning/mos-certification.aspx">www.microsoft.com/en-us/learning/mos-certification.aspx</a>
Business Management and Finance	Business Administrative Services	111090	S	State Skill Certificate	The State Skill Certificate verifies the skills obtained during a students' apprenticeship. To receive the certificate, students must complete a minimum of 450 hours of work-based training and one year of related classroom instruction.	

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Business Management and Finance	Business Administrative Services	021099	S	College Credit	Based on articulation agreements and dual enrollment options in the program, students can obtain TSAs once they have passed course requirements and are eligible to receive college credit.	
Business Management and Finance	Management Information Systems	021005	6	Microsoft Office Specialist Certification	Pass both the Microsoft Office Word and Excel exams to earn the MOS certification	<a href="http://www.microsoft.com/en-us/learning/mos-certification.aspx">www.microsoft.com/en-us/learning/mos-certification.aspx</a>
Business Management and Finance	Management Information Systems	111090	S	State Skill Certificate	The State Skill Certificate verifies the skills obtained during a students' apprenticeship. To receive the certificate, students must complete a minimum of 450 hours of work-based training and one year of related classroom instruction.	
Business Management and Finance	Management Information Systems	021099	S	College Credit	Based on articulation agreements and dual enrollment options in the program, students can obtain TSAs once they have passed course requirements and are eligible to receive college credit.	
Business Management and Finance	Business Marketing and Marketing Management	021004	10	CLEP Marketing Assessment	Depending on the college, students may be eligible to earn college credit with a score of 50 or better on the CLEP exam.	<a href="https://clep.collegeboard.org">https://clep.collegeboard.org</a>
Business Management and Finance	Business Marketing and Marketing Management	021011	10	AP Microeconomics Exam	Depending on the college, students may be eligible to earn college credit with a score of 3 or better on the AP exam.	<a href="http://apcentral.collegeboard.com/home">http://apcentral.collegeboard.com/home</a>
Business Management and Finance	Business Marketing and Marketing Management	021012	10	AP Macroeconomics Exam	Depending on the college, students may be eligible to earn college credit with a score of 3 or better on the AP exam.	<a href="http://apcentral.collegeboard.com/home">http://apcentral.collegeboard.com/home</a>
Business Management and Finance	Business Marketing and Marketing Management	111090	S	State Skill Certificate	The State Skill Certificate verifies the skills obtained during a students' apprenticeship. To receive the certificate, students must complete a minimum of 450 hours of work-based training and one year of related classroom instruction.	
Business Management and Finance	Business Marketing and Marketing Management	021099	S	College Credit	Based on articulation agreements and dual enrollment options in the program, students can obtain TSAs once they have passed course requirements and are eligible to receive college credit.	
Business Management and Finance	Accounting and Business/Finance Services	021003	10	CLEP Finance and Accounting Assessment	Depending on the college, students may be eligible to earn college credit with a score of 50 or better on the CLEP exam.	<a href="https://clep.collegeboard.org">https://clep.collegeboard.org</a>
Business Management and Finance	Accounting and Business/Finance Services	021011	10	AP Microeconomics Exam	Depending on the college, students may be eligible to earn college credit with a score of 3 or better on the AP exam.	<a href="http://apcentral.collegeboard.com/home">http://apcentral.collegeboard.com/home</a>
Business Management and Finance	Accounting and Business/Finance Services	021012	10	AP Macroeconomics Exam	Depending on the college, students may be eligible to earn college credit with a score of 3 or better on the AP exam.	<a href="http://apcentral.collegeboard.com/home">http://apcentral.collegeboard.com/home</a>
Business Management and Finance	Accounting and Business/Finance Services	111090	S	State Skill Certificate	The State Skill Certificate verifies the skills obtained during a students' apprenticeship. To receive the certificate, students must complete a minimum of 450 hours of work-based training and one year of related classroom instruction.	
Business Management and Finance	Accounting and Business/Finance Services	021099	S	College Credit	Based on articulation agreements and dual enrollment options in the program, students can obtain TSAs once they have passed course requirements and are eligible to receive college credit.	

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Business Management and Finance	Business Administration and Management	021005	6	Microsoft Office Specialist Certification	Pass both the Microsoft Office Word and Excel exams to earn the MOS certification	<a href="http://www.microsoft.com/en-us/learning/mos-certification.aspx">www.microsoft.com/en-us/learning/mos-certification.aspx</a>
Business Management and Finance	Business Administration and Management	021002	10	CLEP Principles of Management Assessment	Depending on the college, students may be eligible to earn college credit with a score of 50 or better on the CLEP exam.	<a href="https://clep.collegeboard.org">https://clep.collegeboard.org</a>
Business Management and Finance	Business Administration and Management	111090	S	State Skill Certificate	The State Skill Certificate verifies the skills obtained during a students' apprenticeship. To receive the certificate, students must complete a minimum of 450 hours of work-based training and one year of related classroom instruction.	
Business Management and Finance	Business Administration and Management	021099	S	College Credit	Based on articulation agreements and dual enrollment options in the program, students can obtain TSAs once they have passed course requirements and are eligible to receive college credit.	
Construction and Development	Construction Design and Management	031001	6	Autodesk AutoCAD Certification	Students are required to pass Autodesk's AutoCAD or Revit certification assessments.	<a href="http://www.autodesk.org">www.autodesk.org</a>
Construction and Development	Construction Design and Management	031002	6	Autodesk Revit Certification	Students are required to pass Autodesk's AutoCAD or Revit certification assessments.	<a href="http://www.autodesk.org">www.autodesk.org</a>
Construction and Development	Construction Design and Management	111090	S	State Skill Certificate	The State Skill Certificate verifies the skills obtained during a students' apprenticeship. To receive the certificate, students must complete a minimum of 450 hours of work-based training and one year of related classroom instruction.	
Construction and Development	Construction Design and Management	031099	S	College Credit	Based on articulation agreements and dual enrollment options in the program, students can obtain TSAs once they have passed course requirements and are eligible to receive college credit.	
Construction and Development	Construction Trades Professions - Masonry	031004	16	Core plus Level 1 Masonry assessment	Pass the National Center for Construction Education and Research (NCCER) – Core: Intro Craft Skills and Level I assessment in the trade area	<a href="https://www.nccer.org/workforce-development-programs/credentials-registry">https://www.nccer.org/workforce-development-programs/credentials-registry</a>
Construction and Development	Construction Trades Professions - Masonry	111090	S	State Skill Certificate	The State Skill Certificate verifies the skills obtained during a students' apprenticeship. To receive the certificate, students must complete a minimum of 450 hours of work-based training and one year of related classroom instruction.	
Construction and Development	Construction Trades Professions - Masonry	031099	S	College Credit	Based on articulation agreements and dual enrollment options in the program, students can obtain TSA once they have passed course requirements and are eligible to receive college credit.	
Construction and Development	Construction Trades Professions - Carpentry	031005	16	Core plus Level 1 Carpentry assessment	Pass the National Center for Construction Education and Research (NCCER) –Core: Intro Craft Skills and Level I assessment in trade area	<a href="https://www.nccer.org/workforce-development-programs/credentials-registry">https://www.nccer.org/workforce-development-programs/credentials-registry</a>
Construction and Development	Construction Trades Professions - Carpentry	111090	S	State Skill Certificate	The State Skill Certificate verifies the skills obtained during a students' apprenticeship. To receive the certificate, students must complete a minimum of 450 hours of work-based training and one year of related classroom instruction.	

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Construction and Development	Construction Trades Professions - Carpentry	031099	S	College Credit	Based on articulation agreements and dual enrollment options in the program, students can obtain TSA once they have passed course requirements and are eligible to receive college credit.	
Construction and Development	Construction Trades Professions - Electrical	031006	16	Core plus Level 1 Electrical assessment	Pass the National Center for Construction Education and Research (NCCER) –Core: Intro Craft Skills and Level I assessment in trade area	<a href="https://www.nccer.org/workforce-development-programs/credentials-registry">https://www.nccer.org/workforce-development-programs/credentials-registry</a>
Construction and Development	Construction Trades Professions - Electrical	111090	S	State Skill Certificate	The State Skill Certificate verifies the skills obtained during a students' apprenticeship. To receive the certificate, students must complete a minimum of 450 hours of work-based training and one year of related classroom instruction.	
Construction and Development	Construction Trades Professions - Electrical	031099	S	College Credit	Based on articulation agreements and dual enrollment options in the program, students can obtain TSA once they have passed course requirements and are eligible to receive college credit.	
Construction and Development	Construction Trades Professions - Plumbing	031007	16	Core plus Level 1 Plumbing assessment	Pass the National Center for Construction Education and Research(NCCER) – Core: Intro Craft Skills and Level I assessment in trade area	<a href="https://www.nccer.org/workforce-development-programs/credentials-registry">https://www.nccer.org/workforce-development-programs/credentials-registry</a>
Construction and Development	Construction Trades Professions - Plumbing	111090	S	State Skill Certificate	The State Skill Certificate verifies the skills obtained during a students' apprenticeship. To receive the certificate, students must complete a minimum of 450 hours of work-based training and one year of related classroom instruction.	
Construction and Development	Construction Trades Professions - Plumbing	031099	S	College Credit	Based on articulation agreements and dual enrollment options in the program, students can obtain TSA once they have passed course requirements and are eligible to receive college credit.	
Construction and Development	Construction Maintenance Proessions - Industrial Maintenance	031008	16	Core plus Level 1 Industrial Maintenance assessment	Pass the National Center for Construction Education and Research(NCCER) – Core: Intro Craft Skills and Level I assessment in trade area	<a href="https://www.nccer.org/workforce-development-programs/credentials-registry">https://www.nccer.org/workforce-development-programs/credentials-registry</a>
Construction and Development	Construction Maintenance Proessions - Industrial Maintenance	111090	S	State Skill Certificate	The State Skill Certificate verifies the skills obtained during a students' apprenticeship. To receive the certificate, students must complete a minimum of 450 hours of work-based training and one year of related classroom instruction.	
Construction and Development	Construction Maintenance Proessions - Industrial Maintenance	031099	S	College Credit	Based on articulation agreements and dual enrollment options in the program, students can obtain TSAs once they have passed course requirements and are eligible to receive college credit.	
Construction and Development	Construction Maintenance Professions - HVAC	031009	16	Core plus Level 1 HVAC assessment	Pass the National Center for Construction Education and Research(NCCER) – Core: Intro Craft Skills and Level I assessment in trade area	<a href="https://www.nccer.org/workforce-development-programs/credentials-registry">https://www.nccer.org/workforce-development-programs/credentials-registry</a>
Construction and Development	Construction Maintenance Professions - HVAC	111090	S	State Skill Certificate	The State Skill Certificate verifies the skills obtained during a students' apprenticeship. To receive the certificate, students must complete a minimum of 450 hours of work-based training and one year of related classroom instruction.	



Career Cluster	CIP TITLE	TSA Codes	ADA	Technical Skill Assessment	Specific Criteria	Websites for Additional Information
Construction and Development	Construction Maintenance Professions - HVAC	031099	S	College Credit	Based on articulation agreements and dual enrollment options in the program, students can obtain TSAs once they have passed course requirements and are eligible to receive college credit.	
Construction and Development	Construction Maintenance Professions - Welding	031010	16	Core plus Level 1 Welding assessment	Pass the National Center for Construction Education and Research(NCCER) – Core: Intro Craft Skills and Level I assessment in trade area	<a href="https://www.nccer.org/workforce-development-programs/credentials-registry">https://www.nccer.org/workforce-development-programs/credentials-registry</a>
Construction and Development	Construction Maintenance Professions - Welding	111090	S	State Skill Certificate	The State Skill Certificate verifies the skills obtained during a students' apprenticeship. To receive the certificate, students must complete a minimum of 450 hours of work-based training and one year of related classroom instruction.	
Construction and Development	Construction Maintenance Professions - Welding	031099	S	College Credit	Based on articulation agreements and dual enrollment options in the program, students can obtain TSAs once they have passed course requirements and are eligible to receive college credit.	
Construction and Development	Local Construction Trades Academy	031004	16	Core plus Level 1 Masonry assessment	Pass the National Center for Construction Education and Research (NCCER) – Core: Intro Craft Skills and Level I assessment in the trade area	<a href="https://www.nccer.org/workforce-development-programs/credentials-registry">https://www.nccer.org/workforce-development-programs/credentials-registry</a>
Construction and Development	Local Construction Trades Academy	031005	16	Core plus Level 1 Carpentry assessment	Pass the National Center for Construction Education and Research (NCCER) –Core: Intro Craft Skills and Level I assessment in trade area	<a href="https://www.nccer.org/workforce-development-programs/credentials-registry">https://www.nccer.org/workforce-development-programs/credentials-registry</a>
Construction and Development	Local Construction Trades Academy	031006	16	Core plus Level 1 Electrical assessment	Pass the National Center for Construction Education and Research (NCCER) –Core: Intro Craft Skills and Level I assessment in trade area	<a href="https://www.nccer.org/workforce-development-programs/credentials-registry">https://www.nccer.org/workforce-development-programs/credentials-registry</a>
Construction and Development	Local Construction Trades Academy	031007	16	Core plus Level 1 Plumbing assessment	Pass the National Center for Construction Education and Research(NCCER) – Core: Intro Craft Skills and Level I assessment in trade area	<a href="https://www.nccer.org/workforce-development-programs/credentials-registry">https://www.nccer.org/workforce-development-programs/credentials-registry</a>
Construction and Development	Local Construction Trades Academy	031008	16	Core plus Level 1 Industrial Maintenance assessment	Pass the National Center for Construction Education and Research(NCCER) – Core: Intro Craft Skills and Level I assessment in trade area	<a href="https://www.nccer.org/workforce-development-programs/credentials-registry">https://www.nccer.org/workforce-development-programs/credentials-registry</a>
Construction and Development	Local Construction Trades Academy	031009	16	Core plus Level 1 HVAC assessment	Pass the National Center for Construction Education and Research(NCCER) – Core: Intro Craft Skills and Level I assessment in trade area	<a href="https://www.nccer.org/workforce-development-programs/credentials-registry">https://www.nccer.org/workforce-development-programs/credentials-registry</a>
Construction and Development	Local Construction Trades Academy	031010	16	Core plus Level 1 Welding assessment	Pass the National Center for Construction Education and Research(NCCER) – Core: Intro Craft Skills and Level I assessment in trade area	<a href="https://www.nccer.org/workforce-development-programs/credentials-registry">https://www.nccer.org/workforce-development-programs/credentials-registry</a>
Construction and Development	Local Construction Trades Academy	111090	S	State Skill Certificate	The State Skill Certificate verifies the skills obtained during a students' apprenticeship. To receive the certificate, students must complete a minimum of 450 hours of work-based training and one year of related classroom instruction.	
Construction and Development	Local Construction Trades Academy	031099	S	College Credit	Based on articulation agreements and dual enrollment options in the program, students can obtain TSAs once they have passed course requirements and are eligible to receive college credit.	
Construction and Development	Local Construction Trades-Masonry	031004	16	Core plus Level 1 Masonry assessment	Pass the National Center for Construction Education and Research (NCCER) – Core: Intro Craft Skills and Level I assessment in the trade area	<a href="https://www.nccer.org/workforce-development-programs/credentials-registry">www.nccer.org/workforce-development-programs/credentials-registry</a>

Career Cluster	CIP TITLE	TSA Codes	ADA	Technical Skill Assessment	Specific Criteria	Websites for Additional Information
Construction and Development	Local Construction Trades-Masonry	111090	S	State Skill Certificate	The State Skill Certificate verifies the skills obtained during a students' apprenticeship. To receive the certificate, students must complete a minimum of 450 hours of work-based training and one year of related classroom instruction.	
Construction and Development	Local Construction Trades-Masonry	031099	S	College Credit	Based on articulation agreements and dual enrollment options in the program, students can obtain TSA once they have passed course requirements and are eligible to receive college credit.	
Construction and Development	Local Construction Trades-Carpentry	031005	16	Core plus Level 1 Carpentry assessment	Pass the National Center for Construction Education and Research (NCCER) –Core: Intro Craft Skills and Level I assessment in trade area	<a href="http://www.nccer.org/workforce-development-programs/credentials-registry">www.nccer.org/workforce-development-programs/credentials-registry</a>
Construction and Development	Local Construction Trades-Carpentry	111090	S	State Skill Certificate	The State Skill Certificate verifies the skills obtained during a students' apprenticeship. To receive the certificate, students must complete a minimum of 450 hours of work-based training and one year of related classroom instruction.	
Construction and Development	Local Construction Trades-Carpentry	031099	S	College Credit	Based on articulation agreements and dual enrollment options in the program, students can obtain TSA once they have passed course requirements and are eligible to receive college credit.	
Construction and Development	Local Construction Trades-Electrical	031006	16	Core plus Level 1 Electrical assessment	Pass the National Center for Construction Education and Research (NCCER) –Core: Intro Craft Skills and Level I assessment in trade area	<a href="http://www.nccer.org/workforce-development-programs/credentials-registry">www.nccer.org/workforce-development-programs/credentials-registry</a>
Construction and Development	Local Construction Trades-Electrical	111090	S	State Skill Certificate	The State Skill Certificate verifies the skills obtained during a students' apprenticeship. To receive the certificate, students must complete a minimum of 450 hours of work-based training and one year of related classroom instruction.	
Construction and Development	Local Construction Trades-Electrical	031099	S	College Credit	Based on articulation agreements and dual enrollment options in the program, students can obtain TSA once they have passed course requirements and are eligible to receive college credit.	
Construction and Development	Local Construction Maintenance- HVAC	031009	16	Core plus Level 1 HVAC assessment	Pass the National Center for Construction Education and Research(NCCER) – Core: Intro Craft Skills and Level I assessment in trade area	<a href="http://www.nccer.org/workforce-development-programs/credentials-registry">www.nccer.org/workforce-development-programs/credentials-registry</a>
Construction and Development	Local Construction Maintenance- HVAC	031021	22	EPA Section 608 Core plus Type I assessment	Pass the EPA Section 608 certification core and section I exam.	<a href="https://www.escogroup.org/training/epa608.aspx">https://www.escogroup.org/training/epa608.aspx</a>
Construction and Development	Local Construction Maintenance- HVAC	031022	22	EPA Section 608 Core plus Type II assessment	Pass the EPA Section 608 certification core and section II exam.	<a href="https://www.escogroup.org/training/epa608.aspx">https://www.escogroup.org/training/epa608.aspx</a>
Construction and Development	Local Construction Maintenance- HVAC	031023	22	EPA Section 608 Core plus Type III assessment	Pass the EPA Section 608 certification core and section III exam.	<a href="https://www.escogroup.org/training/epa608.aspx">https://www.escogroup.org/training/epa608.aspx</a>
Construction and Development	Local Construction Maintenance- HVAC	111090	S	State Skill Certificate	The State Skill Certificate verifies the skills obtained during a students' apprenticeship. To receive the certificate, students must complete a minimum of 450 hours of work-based training and one year of related classroom instruction.	
Construction and Development	Local Construction Maintenance- HVAC	031099	S	College Credit	Based on articulation agreements and dual enrollment options in the program, students can obtain TSAs once they have passed course requirements and are eligible to receive college credit.	

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Consumer Services, Hospitality and Tourism	Careers in Cosmetology	041001	8	Cosmetology License	The MD State Board of Cosmetology requires students to pass both theory and practical exams to be licensed.	<a href="http://www.dllr.state.md.us/license/cos/cosexam.shtml">http://www.dllr.state.md.us/license/cos/cosexam.shtml</a>
Consumer Services, Hospitality and Tourism	Careers in Cosmetology	111090	S	State Skill Certificate	The State Skill Certificate verifies the skills obtained during a students' apprenticeship. To receive the certificate, students must complete a minimum of 450 hours of work-based training and one year of related classroom instruction.	
Consumer Services, Hospitality and Tourism	Culinary Arts (ACF)	041004	1	Certified Fundamentals Cook (CFC) certification	Students are NOT required to take the NOCTI written or practical exams to earn the Certified Fundamental Cook (CFC) or the Certified Fundamental Pastry Cook (FPC) credential. Instead, students NEED ONLY complete an accredited ACF program. Please visit the following link to view the list of accredited ACF programs in Maryland ( <a href="https://www.acfchefs.org/ACF/Education/Enrollment/Secondary/ACF/Education/Enrollment/Secondary/#MD">https://www.acfchefs.org/ACF/Education/Enrollment/Secondary/ACF/Education/Enrollment/Secondary/#MD</a> ). Students NOT ENROLLED in an accredited ACF program will be required both to pass the NOCTI written with at least a 70% and to pass the NOCTI practical with at least a 75%.	<a href="https://www.acfchefs.org/ACF/Certify/Levels/ACF/Certify/Levels/Students/">https://www.acfchefs.org/ACF/Certify/Levels/ACF/Certify/Levels/Students/</a>
Consumer Services, Hospitality and Tourism	Culinary Arts (ACF)	041005	1	Certified Fundamentals Pastry Cook (CFPC) certification		<a href="https://www.acfchefs.org/ACF/Certify/Levels/ACF/Certify/Levels/Students/">https://www.acfchefs.org/ACF/Certify/Levels/ACF/Certify/Levels/Students/</a>
Consumer Services, Hospitality and Tourism	Culinary Arts (ACF)	111090	S	State Skill Certificate	The State Skill Certificate verifies the skills obtained during a students' apprenticeship. To receive the certificate, students must complete a minimum of 450 hours of work-based training and one year of related classroom instruction.	
Consumer Services, Hospitality and Tourism	Culinary Arts (ACF)	041099	S	College Credit	Based on articulation agreements and dual enrollment options in the program, students can obtain TSAs once they have passed course requirements and are eligible to receive college credit.	
Consumer Services, Hospitality and Tourism	Food and Beverage Management (Prostart)	041006	9	National ProStart Certificate of Achievement	Students must pass the Level I and Level II end-of-course exams and complete the 400 hour work-based learning (WBL) requirements.	<a href="https://chooserestaurants.org/Programs-and-Scholarships/prostart/ProStart-for-Students">https://chooserestaurants.org/Programs-and-Scholarships/prostart/ProStart-for-Students</a>
Consumer Services, Hospitality and Tourism	Food and Beverage Management (Prostart)	111090	S	State Skill Certificate	The State Skill Certificate verifies the skills obtained during a students' apprenticeship. To receive the certificate, students must complete a minimum of 450 hours of work-based training and one year of related classroom instruction.	
Consumer Services, Hospitality and Tourism	Hospitality and Tourism Management	041007	14	Certified Hospitality Tourism Management Professional (CHTMP) certification	To earn the Certified Hospitality Tourism Management Professional (CHTMP), students must pass the end of course assessments for Year 1 and Year 2 courses, complete 100 hour work-based learning (WBL), and complete WBL requirements	<a href="https://www.ahlei.org/Programs/High-School-Program-(HTMP)">https://www.ahlei.org/Programs/High-School-Program-(HTMP)</a>
Consumer Services, Hospitality and Tourism	Hospitality and Tourism Management	111090	S	State Skill Certificate	The State Skill Certificate verifies the skills obtained during a students' apprenticeship. To receive the certificate, students must complete a minimum of 450 hours of work-based training and one year of related classroom instruction.	
Consumer Services, Hospitality and Tourism	Restaurant, Culinary, and Catering Management	041006	9	National ProStart Certificate of Achievement	Students must pass the Level I and Level II end-of-course exams and complete the 400 hour work-based learning (WBL) requirements.	<a href="https://chooserestaurants.org/Programs-and-Scholarships/prostart/ProStart-for-Students">https://chooserestaurants.org/Programs-and-Scholarships/prostart/ProStart-for-Students</a>

Career Cluster	CIP TITLE	TSA Codes	ADA	Technical Skill Assessment	Specific Criteria	Websites for Additional Information
Consumer Services, Hospitality and Tourism	Restaurant, Culinary, and Catering Management	111090	S	State Skill Certificate	The State Skill Certificate verifies the skills obtained during a students' apprenticeship. To receive the certificate, students must complete a minimum of 450 hours of work-based training and one year of related classroom instruction.	
Consumer Services, Hospitality and Tourism	Hospitality and Tourism Services Administration and Management	041099	S	College Credit	Based on articulation agreements and dual enrollment options in the program, students can obtain TSAs once they have passed course requirements and are eligible to receive college credit.	
Consumer Services, Hospitality and Tourism	Hospitality and Tourism Services Administration and Management	111090	S	State Skill Certificate	The State Skill Certificate verifies the skills obtained during a students' apprenticeship. To receive the certificate, students must complete a minimum of 450 hours of work-based training and one year of related classroom instruction.	
Consumer Services, Hospitality and Tourism	Hospitality and Tourism Services Administration and Management	041007	14	Certified Hospitality Tourism Management Professional (CHTMP) certification	To earn the Certified Hospitality Tourism Management Professional (CHTMP), students must pass the end of course assessments for Year 1 and Year 2 courses, complete 100 hour work-based learning (WBL), and complete WBL requirements	<a href="https://www.ahlei.org/Programs/High-School-Program-(HTMP)">https://www.ahlei.org/Programs/High-School-Program-(HTMP)</a>
Health and Biosciences	Academy of Health Professions - Certified Nursing Assistant	061001	S	Certified Nursing Assistant (CNA)	Pass the teacher developed Certified Nursing Assistant assessment	<a href="http://www.mbon.org/Pages/default.aspx">http://www.mbon.org/Pages/default.aspx</a>
Health and Biosciences	Academy of Health Professions - Certified Nursing Assistant	061002	3	Geriatric Nursing Assistant GNA	Pass the National Nurse's Aide Assessment Program (NNAAP) administered through Credential, a subsidiary of Pearson Vue Testing. Students must first hold the CNA certificate in order to be eligible to take the GNA exam	<a href="http://www.mbon.org/Pages/default.aspx">http://www.mbon.org/Pages/default.aspx</a>
Health and Biosciences	Academy of Health Professions - Certified Nursing Assistant	111090	S	State Skill Certificate	The State Skill Certificate verifies the skills obtained during a students' apprenticeship. To receive the certificate, students must complete a minimum of 450 hours of work-based training and one year of related classroom instruction.	
Health and Biosciences	Academy of Health Professions - Certified Nursing Assistant	061099	S	College Credit	Based on articulation agreements and dual enrollment options in the program, students can obtain TSAs once they have passed course requirements and are eligible to receive college credit.	
Health and Biosciences	Academy of Health Professions - Pharmacy Technician	061003	15	Pharmacy Technician Certification - ExCPT exam	Students must pass exam for the Certification of Pharmacy Technicians (ExCPT) through the National Health Careers Association (NHA). To sit for the ExCPT exam students must be within no more than 30 days of successful completion of all requirements needed to obtain a high school diploma.	<a href="https://www.nhanow.com/certifications/pharmacy-technician">https://www.nhanow.com/certifications/pharmacy-technician</a>
Health and Biosciences	Academy of Health Professions - Pharmacy Technician	061004	21	Pharmacy Technician Certification - PTCB exam	Students must pass exam for Pharmacy Technician certification through the Pharmacy Technician Certification Board (PTCB). To sit for the PTCB exam, the student must be 18 years of age and a high school graduate.	<a href="https://www.ptcb.org/get-certified/apply-for-cpht">https://www.ptcb.org/get-certified/apply-for-cpht</a>
Health and Biosciences	Academy of Health Professions - Pharmacy Technician	111090	S	State Skill Certificate	The State Skill Certificate verifies the skills obtained during a students' apprenticeship. To receive the certificate, students must complete a minimum of 450 hours of work-based training and one year of related classroom instruction.	

Career Cluster	CIP TITLE	TSA Codes	ADA	Technical Skill Assessment	Specific Criteria	Websites for Additional Information
Health and Biosciences	Academy of Health Professions - Pharmacy Technician	061099	S	College Credit	Based on articulation agreements and dual enrollment options in the program, students can obtain TSAs once they have passed course requirements and are eligible to receive college credit.	
Health and Biosciences	Academy of Health Professions - Dental Assistant	061005	20	Dental Assisting certification	Pass the Dental Assisting National Board of Radiation Health and Safety (RHS) and the Maryland General Exams (MDG). Certified to expose radiographs and in General Chairside procedures.	<a href="https://www.danb.org/Become-Certified/Exams-and-Certifications/CDA.aspx">https://www.danb.org/Become-Certified/Exams-and-Certifications/CDA.aspx</a>
Health and Biosciences	Academy of Health Professions - Certified Clinical Medical Assistant	061006	15	Certified Clinical Medical Assistant (CCMA) certification	Students must pass the National Healthcareer's CCMA Certification Assessment	<a href="https://www.nhanow.com/certifications/clinical-medical-assistant">https://www.nhanow.com/certifications/clinical-medical-assistant</a>
Health and Biosciences	Academy of Health Professions - Certified Clinical Medical Assistant	111090	S	State Skill Certificate	The State Skill Certificate verifies the skills obtained during a students' apprenticeship. To receive the certificate, students must complete a minimum of 450 hours of work-based training and one year of related classroom instruction.	
Health and Biosciences	Academy of Health Professions - Certified Clinical Medical Assistant	061099	S	College Credit	Based on articulation agreements and dual enrollment options in the program, students can obtain TSAs once they have passed course requirements and are eligible to receive college credit.	
Health and Biosciences	Academy of Health Professions - Physical Rehabilitation	061007	S	National Strength Professionals Association (NSPA) Personal Trainer Certification	Student must pass written and practical exams. Testing will occur at the school site. The online written exam must be proctored by someone other than the program teacher. Students must earn a minimum of 75% to be awarded the certification. Exam cost is \$150.	<a href="http://nspacertified.com/">http://nspacertified.com/</a>
Health and Biosciences	Academy of Health Professions - Physical Rehabilitation	111090	S	State Skill Certificate	The State Skill Certificate verifies the skills obtained during a students' apprenticeship. To receive the certificate, students must complete a minimum of 450 hours of work-based training and one year of related classroom instruction.	
Health and Biosciences	Academy of Health Professions - Physical Rehabilitation	061099	S	College Credit	Based on articulation agreements and dual enrollment options in the program, students can obtain TSAs once they have passed course requirements and are eligible to receive college credit.	
Health and Biosciences	Academy of Health Professions - Allied Health Other Specialty	061099	S	College Credit	Based on articulation agreements and dual enrollment options in the program, students can obtain TSAs once they have passed course requirements and are eligible to receive college credit.	
Health and Biosciences	Academy of Health Professions - Allied Health Other Specialty	111090	S	State Skill Certificate	The State Skill Certificate verifies the skills obtained during a students' apprenticeship. To receive the certificate, students must complete a minimum of 450 hours of work-based training and one year of related classroom instruction.	
Health and Biosciences	Academy of Health Professions - Allied Health Intern	061099	S	College Credit	Based on articulation agreements and dual enrollment options in the program, students can obtain TSAs once they have passed course requirements and are eligible to receive college credit.	

Career Cluster	CIP TITLE	TSA Codes	ADA	Technical Skill Assessment	Specific Criteria	Websites for Additional Information
Health and Biosciences	Academy of Health Professions - Allied Health Intern	111090	S	State Skill Certificate	The State Skill Certificate verifies the skills obtained during a students' apprenticeship. To receive the certificate, students must complete a minimum of 450 hours of work-based training and one year of related classroom instruction.	
Health and Biosciences	Academy of Health Professions - Allied Health Dual Enrollment	061099	S	College Credit	Based on articulation agreements and dual enrollment options in the program, students can obtain TSAs once they have passed course requirements and are eligible to receive college credit.	
Health and Biosciences	Academy of Health Professions - Allied Health Dual Enrollment	111090	S	State Skill Certificate	The State Skill Certificate verifies the skills obtained during a students' apprenticeship. To receive the certificate, students must complete a minimum of 450 hours of work-based training and one year of related classroom instruction.	
Health and Biosciences	Academy of Health Professions - Allied Health Dual Enrollment	061001	S	Certified Nursing Assistant (CNA)	Pass the teacher developed Certified Nursing Assistant assessment	<a href="http://www.mbon.org/Pages/default.aspx">http://www.mbon.org/Pages/default.aspx</a>
Health and Biosciences	Academy of Health Professions - Allied Health Dual Enrollment	061002	3	Geriatric Nursing Assistant GNA	Pass the National Nurse's Aide Assessment Program (NNAAP) administered through Credential, a subsidiary of Pearson Vue Testing. Students must first hold the CNA certificate in order to be eligible to take the GNA exam	<a href="http://www.mbon.org/Pages/default.aspx">http://www.mbon.org/Pages/default.aspx</a>
Health and Biosciences	Biomedical Science (PLTW)	061099	S	College Credit	Students are eligible to earn college credit from PLTW affiliate colleges and universities with a score of 6 or better on any of the end-of-course exams. Students are also eligible to earn up to 8 college credits from Stevenson University for BIO 113, BIO 113L and BIO 222 by doing the following: Completing the program, earning a GPA of 3.0 or higher in all courses, and receiving a score of 7 or better on the PLTW end-of-course assessments.	<a href="http://www.pltw.org">www.pltw.org</a>
Health and Biosciences	Biomedical Science (PLTW)	111090	S	State Skill Certificate	The State Skill Certificate verifies the skills obtained during a students' apprenticeship. To receive the certificate, students must complete a minimum of 450 hours of work-based training and one year of related classroom instruction.	
Health and Biosciences	Biomedical Science (PLTW)	061010	S	Biotechnician Assistant Credentialing Exam (BACE)	The Biotechnician Assistant Credentialing Exam (BACE) is an industry-recognized exam designed to assess core skills and knowledge sets identified by industry, and represented within the academic and performance standards of Biotechnology programs.	<a href="http://biotility.research.ufl.edu/bace/">http://biotility.research.ufl.edu/bace/</a>
Health and Biosciences	Health Professions/Allied Health Professions and Related Sciences	061001	S	Certified Nursing Assistant (CNA)	Pass the teacher developed Certified Nursing Assistant assessment	<a href="http://www.mbon.org/Pages/default.aspx">http://www.mbon.org/Pages/default.aspx</a>
Health and Biosciences	Health Professions/Allied Health Professions and Related Sciences	061003	15	Pharmacy Technician Certification - ExCPT exam	Students must pass exam for the Certification of Pharmacy Technicians (ExCPT) through the National Health Careers Association (NHA). To sit for the ExCPT exam students must be within no more than 30 days of successful completion of all requirements needed to obtain a high school diploma.	<a href="https://www.nhanow.com/certifications/pharmacy-technician">https://www.nhanow.com/certifications/pharmacy-technician</a>

Career Cluster	CIP TITLE	TSA Codes	ADA	Technical Skill Assessment	Specific Criteria	Websites for Additional Information
Health and Biosciences	Health Professions/Allied Health Professions and Related Sciences	061004	21	Pharmacy Technician Certification - PTCB exam	Students must pass exam for Pharmacy Technician certification through the Pharmacy Technician Certification Board (PTCB). To sit for the PTCB exam, the student must be 18 years of age and a high school graduate.	<a href="https://www.ptcb.org/get-certified/apply-for-cphtt">https://www.ptcb.org/get-certified/apply-for-cphtt</a>
Health and Biosciences	Health Professions/Allied Health Professions and Related Sciences	061005	20	Dental Assisting certification	Pass the Dental Assisting National Board of Radiation Health and Safety (RHS) and the Maryland General Exams (MDG). Certified to expose radiographs and in General Chairside procedures.	<a href="https://www.danb.org/Become-Certified/Exams-and-Certifications/CDA.aspx">https://www.danb.org/Become-Certified/Exams-and-Certifications/CDA.aspx</a>
Health and Biosciences	Health Professions/Allied Health Professions and Related Sciences	061006	15	Certified Clinical Medical Assistant (CCMA) certification	Students must pass the National Health Careers CCMA Certification Assessment	<a href="https://www.nhanow.com/certifications/clinical-medical-assistant">https://www.nhanow.com/certifications/clinical-medical-assistant</a>
Health and Biosciences	Health Professions/Allied Health Professions and Related Sciences	111090	S	State Skill Certificate	The State Skill Certificate verifies the skills obtained during a students' apprenticeship. To receive the certificate, students must complete a minimum of 450 hours of work-based training and one year of related classroom instruction.	
Health and Biosciences	Health Professions/Allied Health Professions and Related Sciences	061099	S	College Credit	Based on articulation agreements and dual enrollment options in the program, students can obtain TSAs once they have passed course requirements and are eligible to receive college credit.	
Health and Biosciences	Biotechnology	061099	S	College Credit	Based on articulation agreements and dual enrollment options in the program, students can obtain TSAs once they have passed course requirements and are eligible to receive college credit.	
Health and Biosciences	Biotechnology	111090	S	State Skill Certificate	The State Skill Certificate verifies the skills obtained during a students' apprenticeship. To receive the certificate, students must complete a minimum of 450 hours of work-based training and one year of related classroom instruction.	
Health and Biosciences	Biotechnology	061010	S	Biotechnician Assistant Credentialing Exam (BACE)	The Biotechnician Assistant Credentialing Exam (BACE) is an industry-recognized exam designed to assess core skills and knowledge sets identified by industry, and represented within the academic and performance standards of Biotechnology programs.	<a href="http://biotility.research.ufl.edu/bace/">http://biotility.research.ufl.edu/bace/</a>
Human Resource Services	Fire Emergency Medical Training/ High School Cadet (MFRI)	071001	19	Emergency Medical Technician (EMT) certification	Student must pass one of the following assessments: (1) EMT, (2) EMR, (3) Fire Fighter I, (4) Firefighter II (must pass Firefighter I first), (5) Truck Company Fireground Operations, (6) Rescue Tech – Site Operations, (7) Rescue Technician – Vehicle and Machinery Extrication, and/or (8) Haz-Mat Operations	<a href="http://www.mfri.org">www.mfri.org</a>
Human Resource Services	Fire Emergency Medical Training/ High School Cadet (MFRI)	071002	19	Emergency Medical Responder (EMT) certification	Student must pass one of the following assessments: (1) EMT, (2) EMR, (3) Fire Fighter I, (4) Firefighter II (must pass Firefighter I first), (5) Truck Company Fireground Operations, (6) Rescue Tech – Site Operations, (7) Rescue Technician – Vehicle and Machinery Extrication, and/or (8) Haz-Mat Operations	<a href="http://www.mfri.org">www.mfri.org</a>

Career Cluster	CIP TITLE	TSA Codes	ADA	Technical Skill Assessment	Specific Criteria	Websites for Additional Information
Human Resource Services	Fire Emergency Medical Training/ High School Cadet (MFRI)	071003	19	Fire Fighter I certification	Student must pass one of the following assessments: (1) EMT, (2) EMR, (3) Fire Fighter I, (4) Firefighter II (must pass Firefighter I first), (5) Truck Company Fireground Operations, (6) Rescue Tech – Site Operations, (7) Rescue Technician – Vehicle and Machinery Extrication, and/or (8) Haz-Mat Operations	www.mfri.org
Human Resource Services	Fire Emergency Medical Training/ High School Cadet (MFRI)	071004	19	Fire Fighter II certification	Student must pass one of the following assessments: (1) EMT, (2) EMR, (3) Fire Fighter I, (4) Firefighter II (must pass Firefighter I first), (5) Truck Company Fireground Operations, (6) Rescue Tech – Site Operations, (7) Rescue Technician – Vehicle and Machinery Extrication, and/or (8) Haz-Mat Operations	www.mfri.org
Human Resource Services	Fire Emergency Medical Training/ High School Cadet (MFRI)	071005	19	Truck Company Fireground Ops certification	Student must pass one of the following assessments: (1) EMT, (2) EMR, (3) Fire Fighter I, (4) Firefighter II (must pass Firefighter I first), (5) Truck Company Fireground Operations, (6) Rescue Tech – Site Operations, (7) Rescue Technician – Vehicle and Machinery Extrication, and/or (8) Haz-Mat Operations	www.mfri.org
Human Resource Services	Fire Emergency Medical Training/ High School Cadet (MFRI)	071006	19	Rescue Tech - Site Ops certification	Student must pass one of the following assessments: (1) EMT, (2) EMR, (3) Fire Fighter I, (4) Firefighter II (must pass Firefighter I first), (5) Truck Company Fireground Operations, (6) Rescue Tech – Site Operations, (7) Rescue Technician – Vehicle and Machinery Extrication, and/or (8) Haz-Mat Operations	www.mfri.org
Human Resource Services	Fire Emergency Medical Training/ High School Cadet (MFRI)	071007	19	Rescue Tech - Vehicle and Machinery Extraction certification	Student must pass one of the following assessments: (1) EMT, (2) EMR, (3) Fire Fighter I, (4) Firefighter II (must pass Firefighter I first), (5) Truck Company Fireground Operations, (6) Rescue Tech – Site Operations, (7) Rescue Technician – Vehicle and Machinery Extrication, and/or (8) Haz-Mat Operations	www.mfri.org
Human Resource Services	Fire Emergency Medical Training/ High School Cadet (MFRI)	071008	19	Hazardous Material Operations certification	Student must pass one of the following assessments: (1) EMT, (2) EMR, (3) Fire Fighter I, (4) Firefighter II (must pass Firefighter I first), (5) Truck Company Fireground Operations, (6) Rescue Tech – Site Operations, (7) Rescue Technician – Vehicle and Machinery Extrication, and/or (8) Haz-Mat Operations	www.mfri.org
Human Resource Services	Fire Emergency Medical Training/ High School Cadet (MFRI)	111090	S	State Skill Certificate	The State Skill Certificate verifies the skills obtained during a students' apprenticeship. To receive the certificate, students must complete a minimum of 450 hours of work-based training and one year of related classroom instruction.	
Human Resource Services	Fire Emergency Medical Training/ High School Cadet (MFRI)	071099	S	College credit	Based on articulation agreements and dual enrollment options in the program, students can obtain TSAs once they have passed course requirements and are eligible to receive college credit.	
Human Resource Services	Teacher Academy of Maryland	071009	7	ParaPro	Student must achieve a minimum score of 455 on ParaPro exam	https://www.ets.org/parapro



Career Cluster	CIP TITLE	TSA Codes	ADA	Technical Skill Assessment	Specific Criteria	Websites for Additional Information
Human Resource Services	Teacher Academy of Maryland	071010	7	PraxisCORE	Student must achieve passing scores in Reading - 156, Writing - 162, and Math – 150	<a href="https://www.ets.org/praxis/">https://www.ets.org/praxis/</a>
Human Resource Services	Teacher Academy of Maryland	111090	S	State Skill Certificate	The State Skill Certificate verifies the skills obtained during a students' apprenticeship. To receive the certificate, students must complete a minimum of 450 hours of work-based training and one year of related classroom instruction.	
Human Resource Services	Teacher Academy of Maryland	071099	S	College credit	Based on articulation agreements and dual enrollment options in the program, students can obtain TSAs once they have passed course requirements and are eligible to receive college credit.	
Human Resource Services	Homeland Security and Emergency Preparedness - Information/Communications Technology	071011	S	Geographic Information System (GIS) certification	Pass the Spatial Technology and Remote Sensing (STARS) assessment to earn the Geographic Information System (GIS) certification.	<a href="http://www.digitalquest.com/certification.html">www.digitalquest.com/certification.html</a>
Human Resource Services	Homeland Security and Emergency Preparedness - Information/Communications Technology	071012	17	ESRI ArcGIS Desktop certification	Pass the ArcGIS Desktop Entry assessment to earn the ESRI ArcGIS Certification.	<a href="https://www.esri.com/training/catalog/5823c759f83732d52fa64106/arcgis-desktop-entry-10.5/">https://www.esri.com/training/catalog/5823c759f83732d52fa64106/arcgis-desktop-entry-10.5/</a>
Human Resource Services	Homeland Security and Emergency Preparedness - Information/Communications Technology	111090	S	State Skill Certificate	The State Skill Certificate verifies the skills obtained during a students' apprenticeship. To receive the certificate, students must complete a minimum of 450 hours of work-based training and one year of related classroom instruction.	
Human Resource Services	Homeland Security and Emergency Preparedness - Homeland Security Sciences	071099	S	College credit	Based on articulation agreements and dual enrollment options in the program, students can obtain TSAs once they have passed course requirements and are eligible to receive college credit.	
Human Resource Services	Homeland Security and Emergency Preparedness - Homeland Security Sciences	111090	S	State Skill Certificate	The State Skill Certificate verifies the skills obtained during a students' apprenticeship. To receive the certificate, students must complete a minimum of 450 hours of work-based training and one year of related classroom instruction.	
Human Resource Services	Homeland Security and Emergency Preparedness - Criminal Justice/Law Enforcement	071099	S	College credit	Based on articulation agreements and dual enrollment options in the program, students can obtain TSAs once they have passed course requirements and are eligible to receive college credit.	
Human Resource Services	Homeland Security and Emergency Preparedness - Criminal Justice/Law Enforcement	111090	S	State Skill Certificate	The State Skill Certificate verifies the skills obtained during a students' apprenticeship. To receive the certificate, students must complete a minimum of 450 hours of work-based training and one year of related classroom instruction.	

Career Cluster	CIP TITLE	TSA Codes	ADA	Technical Skill Assessment	Specific Criteria	Websites for Additional Information
Human Resource Services	Criminal Justice, Law and Society	071099	S	College credit	Based on articulation agreements and dual enrollment options in the program, students can obtain TSAs once they have passed course requirements and are eligible to receive college credit.	
Human Resource Services	Criminal Justice, Law and Society	111090	S	State Skill Certificate	The State Skill Certificate verifies the skills obtained during a students' apprenticeship. To receive the certificate, students must complete a minimum of 450 hours of work-based training and one year of related classroom instruction.	
Human Resource Services	Early Childhood Education/Child Care	071013	18	Child Development Associate certification	Candidates do not receive a pass or fail score on the CDA Exam and Verification Visit. Rather, the Council for Professional Recognition comprehensively evaluates how candidates score in each of the thirteen CDA Functional Areas on the CDA Exam and the CDA Verification Visit to make a credentialing decision	<a href="http://www.cdacouncil.org/about/cda-credential">http://www.cdacouncil.org/about/cda-credential</a>
Human Resource Services	Early Childhood Education/Child Care	071014	S	90 Hour Certificate	Students must complete 90 hours of Early Childhood courses (Child Growth and Development & Methods and Materials) and earn a grade of "B" or better.	
Human Resource Services	Early Childhood Education/Child Care	111090	S	State Skill Certificate	The State Skill Certificate verifies the skills obtained during a students' apprenticeship. To receive the certificate, students must complete a minimum of 450 hours of work-based training and one year of related classroom instruction.	
Information Technology	Oracle Academy - Java Programming	081002	3	Java Foundations Certified Junior Associate certification	Students must pass either the Java Foundations Certified Junior Associate exam or Database Foundations Junior Associate exam	<a href="https://academy.oracle.com/en/oa-web-overview.html">https://academy.oracle.com/en/oa-web-overview.html</a>
Information Technology	Oracle Academy - Java Programming	111090	S	State Skill Certificate	The State Skill Certificate verifies the skills obtained during a students' apprenticeship. To receive the certificate, students must complete a minimum of 450 hours of work-based training and one year of related classroom instruction.	
Information Technology	Oracle Academy - Database Management	081003	3	Database Foundations Junior Associate certification	Students must pass either the Java Foundations Certified Junior Associate exam or Database Foundations Junior Associate exam	<a href="https://academy.oracle.com/en/oa-web-overview.html">https://academy.oracle.com/en/oa-web-overview.html</a>
Information Technology	Oracle Academy - Database Management	111090	S	State Skill Certificate	The State Skill Certificate verifies the skills obtained during a students' apprenticeship. To receive the certificate, students must complete a minimum of 450 hours of work-based training and one year of related classroom instruction.	
Information Technology	Computer Science (PLTW)	081020	S	AP Computer Science Principles	Depending on the college, students may be eligible to earn college credit with a score of 3 or better on the AP exam.	<a href="https://apcentral.collegeboard.org/courses">https://apcentral.collegeboard.org/courses</a>
Information Technology	Computer Science (PLTW)	081021	S	AP Computer Science A	Depending on the college, students may be eligible to earn college credit with a score of 3 or better on the AP exam.	<a href="https://apcentral.collegeboard.org/courses">https://apcentral.collegeboard.org/courses</a>
Information Technology	Computer Science (PLTW)	111090	S	State Skill Certificate	The State Skill Certificate verifies the skills obtained during a students' apprenticeship. To receive the certificate, students must complete a minimum of 450 hours of work-based training and one year of related classroom instruction.	
Information Technology	Computer Science (PLTW)	081099	S	College Credit	Based on articulation agreements and dual enrollment options in the program, students can obtain TSAs once they have passed course requirements and are eligible to receive college credit.	

Career Cluster	CIP TITLE	TSA Codes	ADA	Technical Skill Assessment	Specific Criteria	Websites for Additional Information
Information Technology	IT Networking Academy (CISCO) - CCENT	081004	3	CompTIA ITF	Students are required to pass one or more of the following: (1) CompTIA ITF, (2) CompTIA A+, (3) CompTIA Network+, (4) Cisco CCT, (5) Cisco CCENT, (6) Cisco CCNA RS, (7) Cisco CCNA Security, (8) CompTIA Security+, (9) NDG Linux Essentials, (10) CompTIA Linux+, (11) Cisco CCNA Cyber Ops, (12) CompTIA PenTest+	<a href="https://www.netacad.com/careers/certifications/">https://www.netacad.com/careers/certifications/</a> ; <a href="http://partners.comptia.org">http://partners.comptia.org</a>
Information Technology	IT Networking Academy (CISCO) - CCENT	081005	3	CompTIA A+	Students are required to pass one or more of the following: (1) CompTIA ITF, (2) CompTIA A+, (3) CompTIA Network+, (4) Cisco CCT, (5) Cisco CCENT, (6) Cisco CCNA RS, (7) Cisco CCNA Security, (8) CompTIA Security+, (9) NDG Linux Essentials, (10) CompTIA Linux+, (11) Cisco CCNA Cyber Ops, (12) CompTIA PenTest+	<a href="https://www.netacad.com/careers/certifications/">https://www.netacad.com/careers/certifications/</a> ; <a href="http://partners.comptia.org">http://partners.comptia.org</a>
Information Technology	IT Networking Academy (CISCO) - CCENT	081006	3	CompTIA Network+	Students are required to pass one or more of the following: (1) CompTIA ITF, (2) CompTIA A+, (3) CompTIA Network+, (4) Cisco CCT, (5) Cisco CCENT, (6) Cisco CCNA RS, (7) Cisco CCNA Security, (8) CompTIA Security+, (9) NDG Linux Essentials, (10) CompTIA Linux+, (11) Cisco CCNA Cyber Ops, (12) CompTIA PenTest+	<a href="https://www.netacad.com/careers/certifications/">https://www.netacad.com/careers/certifications/</a> ; <a href="http://partners.comptia.org">http://partners.comptia.org</a>
Information Technology	IT Networking Academy (CISCO) - CCENT	081007	3	CompTIA Security+	Students are required to pass one or more of the following: (1) CompTIA ITF, (2) CompTIA A+, (3) CompTIA Network+, (4) Cisco CCT, (5) Cisco CCENT, (6) Cisco CCNA RS, (7) Cisco CCNA Security, (8) CompTIA Security+, (9) NDG Linux Essentials, (10) CompTIA Linux+, (11) Cisco CCNA Cyber Ops, (12) CompTIA PenTest+	<a href="https://www.netacad.com/careers/certifications/">https://www.netacad.com/careers/certifications/</a> ; <a href="http://partners.comptia.org">http://partners.comptia.org</a>
Information Technology	IT Networking Academy (CISCO) - CCENT	081008	3	CompTIA PenTest+	Students are required to pass one or more of the following: (1) CompTIA ITF, (2) CompTIA A+, (3) CompTIA Network+, (4) Cisco CCT, (5) Cisco CCENT, (6) Cisco CCNA RS, (7) Cisco CCNA Security, (8) CompTIA Security+, (9) NDG Linux Essentials, (10) CompTIA Linux+, (11) Cisco CCNA Cyber Ops, (12) CompTIA PenTest+	<a href="https://www.netacad.com/careers/certifications/">https://www.netacad.com/careers/certifications/</a> ; <a href="http://partners.comptia.org">http://partners.comptia.org</a>
Information Technology	IT Networking Academy (CISCO) - CCENT	081009	3	CompTIA Linux+	Students are required to pass one or more of the following: (1) CompTIA ITF, (2) CompTIA A+, (3) CompTIA Network+, (4) Cisco CCT, (5) Cisco CCENT, (6) Cisco CCNA RS, (7) Cisco CCNA Security, (8) CompTIA Security+, (9) NDG Linux Essentials, (10) CompTIA Linux+, (11) Cisco CCNA Cyber Ops, (12) CompTIA PenTest+	<a href="https://www.netacad.com/careers/certifications/">https://www.netacad.com/careers/certifications/</a> ; <a href="http://partners.comptia.org">http://partners.comptia.org</a>
Information Technology	IT Networking Academy (CISCO) - CCENT	081010	3	LPI Linux Essentials	Students are required to pass one or more of the following: (1) CompTIA ITF, (2) CompTIA A+, (3) CompTIA Network+, (4) Cisco CCT, (5) Cisco CCENT, (6) Cisco CCNA RS, (7) Cisco CCNA Security, (8) CompTIA Security+, (9) NDG Linux Essentials, (10) CompTIA Linux+, (11) Cisco CCNA Cyber Ops, (12) CompTIA PenTest+	<a href="https://www.netacad.com/careers/certifications/">https://www.netacad.com/careers/certifications/</a>

Career Cluster	CIP TITLE	TSA Codes	ADA	Technical Skill Assessment	Specific Criteria	Websites for Additional Information
Information Technology	IT Networking Academy (CISCO) - CCENT	081011	3	Cisco CCT	Students are required to pass one or more of the following: (1) CompTIA ITF, (2) CompTIA A+, (3) CompTIA Network+, (4) Cisco CCT, (5) Cisco CCENT, (6) Cisco CCNA RS, (7) Cisco CCNA Security, (8) CompTIA Security+, (9) NDG Linux Essentials, (10) CompTIA Linux+, (11) Cisco CCNA Cyber Ops, (12) CompTIA PenTest+	<a href="https://www.netacad.com/careers/certifications/">https://www.netacad.com/careers/certifications/</a>
Information Technology	IT Networking Academy (CISCO) - CCENT	081012	3	Cisco CCENT	Students are required to pass one or more of the following: (1) CompTIA ITF, (2) CompTIA A+, (3) CompTIA Network+, (4) Cisco CCT, (5) Cisco CCENT, (6) Cisco CCNA RS, (7) Cisco CCNA Security, (8) CompTIA Security+, (9) NDG Linux Essentials, (10) CompTIA Linux+, (11) Cisco CCNA Cyber Ops, (12) CompTIA PenTest+	<a href="https://www.netacad.com/careers/certifications/">https://www.netacad.com/careers/certifications/</a>
Information Technology	IT Networking Academy (CISCO) - CCENT	081013	3	Cisco CCNA RS	Students are required to pass one or more of the following: (1) CompTIA ITF, (2) CompTIA A+, (3) CompTIA Network+, (4) Cisco CCT, (5) Cisco CCENT, (6) Cisco CCNA RS, (7) Cisco CCNA Security, (8) CompTIA Security+, (9) NDG Linux Essentials, (10) CompTIA Linux+, (11) Cisco CCNA Cyber Ops, (12) CompTIA PenTest+	<a href="https://www.netacad.com/careers/certifications/">https://www.netacad.com/careers/certifications/</a>
Information Technology	IT Networking Academy (CISCO) - CCENT	081014	3	Cisco CCNA Security	Students are required to pass one or more of the following: (1) CompTIA ITF, (2) CompTIA A+, (3) CompTIA Network+, (4) Cisco CCT, (5) Cisco CCENT, (6) Cisco CCNA RS, (7) Cisco CCNA Security, (8) CompTIA Security+, (9) NDG Linux Essentials, (10) CompTIA Linux+, (11) Cisco CCNA Cyber Ops, (12) CompTIA PenTest+	<a href="https://www.netacad.com/careers/certifications/">https://www.netacad.com/careers/certifications/</a>
Information Technology	IT Networking Academy (CISCO) - CCENT	081015	3	Cisco CCNA Cyber Ops	Students are required to pass one or more of the following: (1) CompTIA ITF, (2) CompTIA A+, (3) CompTIA Network+, (4) Cisco CCT, (5) Cisco CCENT, (6) Cisco CCNA RS, (7) Cisco CCNA Security, (8) CompTIA Security+, (9) NDG Linux Essentials, (10) CompTIA Linux+, (11) Cisco CCNA Cyber Ops, (12) CompTIA PenTest+	<a href="https://www.netacad.com/careers/certifications/">https://www.netacad.com/careers/certifications/</a>
Information Technology	IT Networking Academy (CISCO) - CCENT	111090	S	State Skill Certificate	The State Skill Certificate verifies the skills obtained during a students' apprenticeship. To receive the certificate, students must complete a minimum of 450 hours of work-based training and one year of related classroom instruction.	
Information Technology	IT Networking Academy (CISCO) - CCENT	081099	S	College Credit	Based on articulation agreements and dual enrollment options in the program, students can obtain TSAs once they have passed course requirements and are eligible to receive college credit.	
Information Technology	IT Networking Academy (CISCO) - CCNA Routing and Switching	081004	3	CompTIA ITF	Students are required to pass one or more of the following: (1) CompTIA ITF, (2) CompTIA A+, (3) CompTIA Network+, (4) Cisco CCT, (5) Cisco CCENT, (6) Cisco CCNA RS, (7) Cisco CCNA Security, (8) CompTIA Security+, (9) NDG Linux Essentials, (10) CompTIA Linux+, (11) Cisco CCNA Cyber Ops, (12) CompTIA PenTest+	<a href="https://www.netacad.com/careers/certifications/">https://www.netacad.com/careers/certifications/</a> ; <a href="http://partners.comptia.org">http://partners.comptia.org</a>

Career Cluster	CIP TITLE	TSA Codes	ADA	Technical Skill Assessment	Specific Criteria	Websites for Additional Information
Information Technology	IT Networking Academy (CISCO) - CCNA Routing and Switching	081005	3	CompTIA A+	Students are required to pass one or more of the following: (1) CompTIA ITF, (2) CompTIA A+, (3) CompTIA Network+, (4) Cisco CCT, (5) Cisco CCENT, (6) Cisco CCNA RS, (7) Cisco CCNA Security, (8) CompTIA Security+, (9) NDG Linux Essentials, (10) CompTIA Linux+, (11) Cisco CCNA Cyber Ops, (12) CompTIA PenTest+	<a href="https://www.netacad.com/careers/certifications/">https://www.netacad.com/careers/certifications/</a> ; <a href="http://partners.comptia.org">http://partners.comptia.org</a>
Information Technology	IT Networking Academy (CISCO) - CCNA Routing and Switching	081006	3	CompTIA Network+	Students are required to pass one or more of the following: (1) CompTIA ITF, (2) CompTIA A+, (3) CompTIA Network+, (4) Cisco CCT, (5) Cisco CCENT, (6) Cisco CCNA RS, (7) Cisco CCNA Security, (8) CompTIA Security+, (9) NDG Linux Essentials, (10) CompTIA Linux+, (11) Cisco CCNA Cyber Ops, (12) CompTIA PenTest+	<a href="https://www.netacad.com/careers/certifications/">https://www.netacad.com/careers/certifications/</a> ; <a href="http://partners.comptia.org">http://partners.comptia.org</a>
Information Technology	IT Networking Academy (CISCO) - CCNA Routing and Switching	081007	3	CompTIA Security+	Students are required to pass one or more of the following: (1) CompTIA ITF, (2) CompTIA A+, (3) CompTIA Network+, (4) Cisco CCT, (5) Cisco CCENT, (6) Cisco CCNA RS, (7) Cisco CCNA Security, (8) CompTIA Security+, (9) NDG Linux Essentials, (10) CompTIA Linux+, (11) Cisco CCNA Cyber Ops, (12) CompTIA PenTest+	<a href="https://www.netacad.com/careers/certifications/">https://www.netacad.com/careers/certifications/</a> ; <a href="http://partners.comptia.org">http://partners.comptia.org</a>
Information Technology	IT Networking Academy (CISCO) - CCNA Routing and Switching	081008	3	CompTIA PenTest+	Students are required to pass one or more of the following: (1) CompTIA ITF, (2) CompTIA A+, (3) CompTIA Network+, (4) Cisco CCT, (5) Cisco CCENT, (6) Cisco CCNA RS, (7) Cisco CCNA Security, (8) CompTIA Security+, (9) NDG Linux Essentials, (10) CompTIA Linux+, (11) Cisco CCNA Cyber Ops, (12) CompTIA PenTest+	<a href="https://www.netacad.com/careers/certifications/">https://www.netacad.com/careers/certifications/</a> ; <a href="http://partners.comptia.org">http://partners.comptia.org</a>
Information Technology	IT Networking Academy (CISCO) - CCNA Routing and Switching	081009	3	CompTIA Linux+	Students are required to pass one or more of the following: (1) CompTIA ITF, (2) CompTIA A+, (3) CompTIA Network+, (4) Cisco CCT, (5) Cisco CCENT, (6) Cisco CCNA RS, (7) Cisco CCNA Security, (8) CompTIA Security+, (9) NDG Linux Essentials, (10) CompTIA Linux+, (11) Cisco CCNA Cyber Ops, (12) CompTIA PenTest+	<a href="https://www.netacad.com/careers/certifications/">https://www.netacad.com/careers/certifications/</a> ; <a href="http://partners.comptia.org">http://partners.comptia.org</a>
Information Technology	IT Networking Academy (CISCO) - CCNA Routing and Switching	081010	3	LPI Linux Essentials	Students are required to pass one or more of the following: (1) CompTIA ITF, (2) CompTIA A+, (3) CompTIA Network+, (4) Cisco CCT, (5) Cisco CCENT, (6) Cisco CCNA RS, (7) Cisco CCNA Security, (8) CompTIA Security+, (9) NDG Linux Essentials, (10) CompTIA Linux+, (11) Cisco CCNA Cyber Ops, (12) CompTIA PenTest+	<a href="https://www.netacad.com/careers/certifications/">https://www.netacad.com/careers/certifications/</a>
Information Technology	IT Networking Academy (CISCO) - CCNA Routing and Switching	081011	3	Cisco CCT	Students are required to pass one or more of the following: (1) CompTIA ITF, (2) CompTIA A+, (3) CompTIA Network+, (4) Cisco CCT, (5) Cisco CCENT, (6) Cisco CCNA RS, (7) Cisco CCNA Security, (8) CompTIA Security+, (9) NDG Linux Essentials, (10) CompTIA Linux+, (11) Cisco CCNA Cyber Ops, (12) CompTIA PenTest+	<a href="https://www.netacad.com/careers/certifications/">https://www.netacad.com/careers/certifications/</a>

Career Cluster	CIP TITLE	TSA Codes	ADA	Technical Skill Assessment	Specific Criteria	Websites for Additional Information
Information Technology	IT Networking Academy (CISCO) - CCNA Routing and Switching	081012	3	Cisco CCENT	Students are required to pass one or more of the following: (1) CompTIA ITF, (2) CompTIA A+, (3) CompTIA Network+, (4) Cisco CCT, (5) Cisco CCENT, (6) Cisco CCNA RS, (7) Cisco CCNA Security, (8) CompTIA Security+, (9) NDG Linux Essentials, (10) CompTIA Linux+, (11) Cisco CCNA Cyber Ops, (12) CompTIA PenTest+	<a href="https://www.netacad.com/careers/certifications/">https://www.netacad.com/careers/certifications/</a>
Information Technology	IT Networking Academy (CISCO) - CCNA Routing and Switching	081013	3	Cisco CCNA RS	Students are required to pass one or more of the following: (1) CompTIA ITF, (2) CompTIA A+, (3) CompTIA Network+, (4) Cisco CCT, (5) Cisco CCENT, (6) Cisco CCNA RS, (7) Cisco CCNA Security, (8) CompTIA Security+, (9) NDG Linux Essentials, (10) CompTIA Linux+, (11) Cisco CCNA Cyber Ops, (12) CompTIA PenTest+	<a href="https://www.netacad.com/careers/certifications/">https://www.netacad.com/careers/certifications/</a>
Information Technology	IT Networking Academy (CISCO) - CCNA Routing and Switching	081014	3	Cisco CCNA Security	Students are required to pass one or more of the following: (1) CompTIA ITF, (2) CompTIA A+, (3) CompTIA Network+, (4) Cisco CCT, (5) Cisco CCENT, (6) Cisco CCNA RS, (7) Cisco CCNA Security, (8) CompTIA Security+, (9) NDG Linux Essentials, (10) CompTIA Linux+, (11) Cisco CCNA Cyber Ops, (12) CompTIA PenTest+	<a href="https://www.netacad.com/careers/certifications/">https://www.netacad.com/careers/certifications/</a>
Information Technology	IT Networking Academy (CISCO) - CCNA Routing and Switching	081015	3	Cisco CCNA Cyber Ops	Students are required to pass one or more of the following: (1) CompTIA ITF, (2) CompTIA A+, (3) CompTIA Network+, (4) Cisco CCT, (5) Cisco CCENT, (6) Cisco CCNA RS, (7) Cisco CCNA Security, (8) CompTIA Security+, (9) NDG Linux Essentials, (10) CompTIA Linux+, (11) Cisco CCNA Cyber Ops, (12) CompTIA PenTest+	<a href="https://www.netacad.com/careers/certifications/">https://www.netacad.com/careers/certifications/</a>
Information Technology	IT Networking Academy (CISCO) - CCNA Routing and Switching	111090	S	State Skill Certificate	The State Skill Certificate verifies the skills obtained during a students' apprenticeship. To receive the certificate, students must complete a minimum of 450 hours of work-based training and one year of related classroom instruction.	
Information Technology	IT Networking Academy (CISCO) - CCNA Routing and Switching	081099	S	College Credit	Based on articulation agreements and dual enrollment options in the program, students can obtain TSAs once they have passed course requirements and are eligible to receive college credit.	
Information Technology	Mobile and Software Application Development (Apple)	081022	3	Swift Certification Level 1	Certification recognizes completion of the App Development with Swift course, validating students' foundational skills with Swift, Xcode, and app development tools. Individuals are expected to have completed at least 150 hours of instructional time before taking the certification exam.	<a href="https://certiport.pearsonvue.com/Certifications/Apple/App-Dev-With-Swift/Overview">https://certiport.pearsonvue.com/Certifications/Apple/App-Dev-With-Swift/Overview</a>
Information Technology	Mobile and Software Application Development (Apple)	111090	S	State Skill Certificate	The State Skill Certificate verifies the skills obtained during a students' apprenticeship. To receive the certificate, students must complete a minimum of 450 hours of work-based training and one year of related classroom instruction.	

Career Cluster	CIP TITLE	TSA Codes	ADA	Technical Skill Assessment	Specific Criteria	Websites for Additional Information
Information Technology	IT Networking Academy (CISCO) - CCNA Security	081004	3	CompTIA ITF	Students are required to pass one or more of the following: (1) CompTIA ITF, (2) CompTIA A+, (3) CompTIA Network+, (4) Cisco CCT, (5) Cisco CCENT, (6) Cisco CCNA RS, (7) Cisco CCNA Security, (8) CompTIA Security+, (9) NDG Linux Essentials, (10) CompTIA Linux+, (11) Cisco CCNA Cyber Ops, (12) CompTIA PenTest+	<a href="https://www.netacad.com/careers/certifications/">https://www.netacad.com/careers/certifications/</a> ; <a href="http://partners.comptia.org">http://partners.comptia.org</a>
Information Technology	IT Networking Academy (CISCO) - CCNA Security	081005	3	CompTIA A+	Students are required to pass one or more of the following: (1) CompTIA ITF, (2) CompTIA A+, (3) CompTIA Network+, (4) Cisco CCT, (5) Cisco CCENT, (6) Cisco CCNA RS, (7) Cisco CCNA Security, (8) CompTIA Security+, (9) NDG Linux Essentials, (10) CompTIA Linux+, (11) Cisco CCNA Cyber Ops, (12) CompTIA PenTest+	<a href="https://www.netacad.com/careers/certifications/">https://www.netacad.com/careers/certifications/</a> ; <a href="http://partners.comptia.org">http://partners.comptia.org</a>
Information Technology	IT Networking Academy (CISCO) - CCNA Security	081006	3	CompTIA Network+	Students are required to pass one or more of the following: (1) CompTIA ITF, (2) CompTIA A+, (3) CompTIA Network+, (4) Cisco CCT, (5) Cisco CCENT, (6) Cisco CCNA RS, (7) Cisco CCNA Security, (8) CompTIA Security+, (9) NDG Linux Essentials, (10) CompTIA Linux+, (11) Cisco CCNA Cyber Ops, (12) CompTIA PenTest+	<a href="https://www.netacad.com/careers/certifications/">https://www.netacad.com/careers/certifications/</a> ; <a href="http://partners.comptia.org">http://partners.comptia.org</a>
Information Technology	IT Networking Academy (CISCO) - CCNA Security	081007	3	CompTIA Security+	Students are required to pass one or more of the following: (1) CompTIA ITF, (2) CompTIA A+, (3) CompTIA Network+, (4) Cisco CCT, (5) Cisco CCENT, (6) Cisco CCNA RS, (7) Cisco CCNA Security, (8) CompTIA Security+, (9) NDG Linux Essentials, (10) CompTIA Linux+, (11) Cisco CCNA Cyber Ops, (12) CompTIA PenTest+	<a href="https://www.netacad.com/careers/certifications/">https://www.netacad.com/careers/certifications/</a> ; <a href="http://partners.comptia.org">http://partners.comptia.org</a>
Information Technology	IT Networking Academy (CISCO) - CCNA Security	081008	3	CompTIA PenTest+	Students are required to pass one or more of the following: (1) CompTIA ITF, (2) CompTIA A+, (3) CompTIA Network+, (4) Cisco CCT, (5) Cisco CCENT, (6) Cisco CCNA RS, (7) Cisco CCNA Security, (8) CompTIA Security+, (9) NDG Linux Essentials, (10) CompTIA Linux+, (11) Cisco CCNA Cyber Ops, (12) CompTIA PenTest+	<a href="https://www.netacad.com/careers/certifications/">https://www.netacad.com/careers/certifications/</a> ; <a href="http://partners.comptia.org">http://partners.comptia.org</a>
Information Technology	IT Networking Academy (CISCO) - CCNA Security	081009	3	CompTIA Linux+	Students are required to pass one or more of the following: (1) CompTIA ITF, (2) CompTIA A+, (3) CompTIA Network+, (4) Cisco CCT, (5) Cisco CCENT, (6) Cisco CCNA RS, (7) Cisco CCNA Security, (8) CompTIA Security+, (9) NDG Linux Essentials, (10) CompTIA Linux+, (11) Cisco CCNA Cyber Ops, (12) CompTIA PenTest+	<a href="https://www.netacad.com/careers/certifications/">https://www.netacad.com/careers/certifications/</a> ; <a href="http://partners.comptia.org">http://partners.comptia.org</a>
Information Technology	IT Networking Academy (CISCO) - CCNA Security	081010	3	LPI Linux Essentials	Students are required to pass one or more of the following: (1) CompTIA ITF, (2) CompTIA A+, (3) CompTIA Network+, (4) Cisco CCT, (5) Cisco CCENT, (6) Cisco CCNA RS, (7) Cisco CCNA Security, (8) CompTIA Security+, (9) NDG Linux Essentials, (10) CompTIA Linux+, (11) Cisco CCNA Cyber Ops, (12) CompTIA PenTest+	<a href="https://www.netacad.com/careers/certifications/">https://www.netacad.com/careers/certifications/</a>

Career Cluster	CIP TITLE	TSA Codes	ADA	Technical Skill Assessment	Specific Criteria	Websites for Additional Information
Manufacturing, Engineering and Technology	Manufacturing Engineering Technology (NIMS) - Machining Operations	091003	4	Manual Milling Skills I certification with Measurement, Materials & Safety exam	Students pass the Measurement, Materials & Safety exam and one of the following: (1) Job Planning, Benchwork & Layout, (2) Manual Milling Skills I, (3) Turning Operations: Turning Between Centers, (4) Turning Operations: Turning Chucking Skills, (5) Grinding Skills I, (6) Drill Press Skills I, (7) CNC Turning: Programming Setup & Operations, (8) CNC Milling: Programming Setup & Operations, (9) CNC Turning: Operations, (10) CNC Milling: Operations	<a href="https://www.nims-skills.org/web/nims/home">https://www.nims-skills.org/web/nims/home</a>
Manufacturing, Engineering and Technology	Manufacturing Engineering Technology (NIMS) - Machining Operations	091004	4	Turning Operations: Turning Between Centers certification with Measurement, Materials & Safety exam	Students pass the Measurement, Materials & Safety exam and one of the following: (1) Job Planning, Benchwork & Layout, (2) Manual Milling Skills I, (3) Turning Operations: Turning Between Centers, (4) Turning Operations: Turning Chucking Skills, (5) Grinding Skills I, (6) Drill Press Skills I, (7) CNC Turning: Programming Setup & Operations, (8) CNC Milling: Programming Setup & Operations, (9) CNC Turning: Operations, (10) CNC Milling: Operations	<a href="https://www.nims-skills.org/web/nims/home">https://www.nims-skills.org/web/nims/home</a>
Manufacturing, Engineering and Technology	Manufacturing Engineering Technology (NIMS) - Machining Operations	091005	4	NIMS Turning Operations: Turning Chucking Skills certification with Measurement, Materials & Safety exam	Students pass the Measurement, Materials & Safety exam and one of the following: (1) Job Planning, Benchwork & Layout, (2) Manual Milling Skills I, (3) Turning Operations: Turning Between Centers, (4) Turning Operations: Turning Chucking Skills, (5) Grinding Skills I, (6) Drill Press Skills I, (7) CNC Turning: Programming Setup & Operations, (8) CNC Milling: Programming Setup & Operations, (9) CNC Turning: Operations, (10) CNC Milling: Operations	<a href="https://www.nims-skills.org/web/nims/home">https://www.nims-skills.org/web/nims/home</a>
Manufacturing, Engineering and Technology	Manufacturing Engineering Technology (NIMS) - Machining Operations	091006	4	NIMS Grinding Skills I certification with Measurement, Materials & Safety exam	Students pass the Measurement, Materials & Safety exam and one of the following: (1) Job Planning, Benchwork & Layout, (2) Manual Milling Skills I, (3) Turning Operations: Turning Between Centers, (4) Turning Operations: Turning Chucking Skills, (5) Grinding Skills I, (6) Drill Press Skills I, (7) CNC Turning: Programming Setup & Operations, (8) CNC Milling: Programming Setup & Operations, (9) CNC Turning: Operations, (10) CNC Milling: Operations	<a href="https://www.nims-skills.org/web/nims/home">https://www.nims-skills.org/web/nims/home</a>
Manufacturing, Engineering and Technology	Manufacturing Engineering Technology (NIMS) - Machining Operations	091007	4	NIMS Drill Press Skills I certification with Measurement, Materials & Safety exam	Students pass the Measurement, Materials & Safety exam and one of the following: (1) Job Planning, Benchwork & Layout, (2) Manual Milling Skills I, (3) Turning Operations: Turning Between Centers, (4) Turning Operations: Turning Chucking Skills, (5) Grinding Skills I, (6) Drill Press Skills I, (7) CNC Turning: Programming Setup & Operations, (8) CNC Milling: Programming Setup & Operations, (9) CNC Turning: Operations, (10) CNC Milling: Operations	<a href="https://www.nims-skills.org/web/nims/home">https://www.nims-skills.org/web/nims/home</a>



Career Cluster	CIP TITLE	TSA Codes	ADA	Technical Skill Assessment	Specific Criteria	Websites for Additional Information
Manufacturing, Engineering and Technology	Manufacturing Engineering Technology (NIMS) - Machining Operations	091008	4	NIMS CNC Turning: Programming Setup & Operations certification with Measurement, Materials & Safety exam	Students pass the Measurement, Materials & Safety exam and one of the following: (1) Job Planning, Benchwork & Layout, (2) Manual Milling Skills I, (3) Turning Operations: Turning Between Centers, (4) Turning Operations: Turning Chucking Skills, (5) Grinding Skills I, (6) Drill Press Skills I, (7) CNC Turning: Programming Setup & Operations, (8) CNC Milling: Programming Setup & Operations, (9) CNC Turning: Operations, (10) CNC Milling: Operations	<a href="https://www.nims-skills.org/web/nims/home">https://www.nims-skills.org/web/nims/home</a>
Manufacturing, Engineering and Technology	Manufacturing Engineering Technology (NIMS) - Machining Operations	091009	4	NIMS CNC Milling: Pgm Setup & Operations certification with Measurement, Materials & Safety exam	Students pass the Measurement, Materials & Safety exam and one of the following: (1) Job Planning, Benchwork & Layout, (2) Manual Milling Skills I, (3) Turning Operations: Turning Between Centers, (4) Turning Operations: Turning Chucking Skills, (5) Grinding Skills I, (6) Drill Press Skills I, (7) CNC Turning: Programming Setup & Operations, (8) CNC Milling: Programming Setup & Operations, (9) CNC Turning: Operations, (10) CNC Milling: Operations	<a href="https://www.nims-skills.org/web/nims/home">https://www.nims-skills.org/web/nims/home</a>
Manufacturing, Engineering and Technology	Manufacturing Engineering Technology (NIMS) - Machining Operations	091010	4	NIMS CNC Turning: Operations certification with Measurement, Materials & Safety exam	Students pass the Measurement, Materials & Safety exam and one of the following: (1) Job Planning, Benchwork & Layout, (2) Manual Milling Skills I, (3) Turning Operations: Turning Between Centers, (4) Turning Operations: Turning Chucking Skills, (5) Grinding Skills I, (6) Drill Press Skills I, (7) CNC Turning: Programming Setup & Operations, (8) CNC Milling: Programming Setup & Operations, (9) CNC Turning: Operations, (10) CNC Milling: Operations	<a href="https://www.nims-skills.org/web/nims/home">https://www.nims-skills.org/web/nims/home</a>
Manufacturing, Engineering and Technology	Manufacturing Engineering Technology (NIMS) - Machining Operations	091011	4	NIMS CNC Milling: Operations certification with Measurement, Materials & Safety exam	Students pass the Measurement, Materials & Safety exam and one of the following: (1) Job Planning, Benchwork & Layout, (2) Manual Milling Skills I, (3) Turning Operations: Turning Between Centers, (4) Turning Operations: Turning Chucking Skills, (5) Grinding Skills I, (6) Drill Press Skills I, (7) CNC Turning: Programming Setup & Operations, (8) CNC Milling: Programming Setup & Operations, (9) CNC Turning: Operations, (10) CNC Milling: Operations	<a href="https://www.nims-skills.org/web/nims/home">https://www.nims-skills.org/web/nims/home</a>
Manufacturing, Engineering and Technology	Manufacturing Engineering Technology (NIMS) - Machining Operations	111090	S	State Skill Certificate	The State Skill Certificate verifies the skills obtained during a students' apprenticeship. To receive the certificate, students must complete a minimum of 450 hours of work-based training and one year of related classroom instruction.	
Manufacturing, Engineering and Technology	Manufacturing Engineering Technology (NIMS) - Machining Operations	091099	S	College Credit	Based on articulation agreements and dual enrollment options in the program, students can obtain TSAs once they have passed course requirements and are eligible to receive college credit.	

Career Cluster	CIP TITLE	TSA Codes	ADA	Technical Skill Assessment	Specific Criteria	Websites for Additional Information
Manufacturing, Engineering and Technology	Manufacturing Engineering Technology (NIMS) - CNC Programming and Operations	091002	4	Job Planning, Benchwork & Layout certification with Measurement, Materials & Safety exam	Students pass the Measurement, Materials & Safety exam and one of the following: (1) Job Planning, Benchwork & Layout, (2) Manual Milling Skills I, (3) Turning Operations: Turning Between Centers, (4) Turning Operations: Turning Chucking Skills, (5) Grinding Skills I, (6) Drill Press Skills I, (7) CNC Turning: Programming Setup & Operations, (8) CNC Milling: Programming Setup & Operations, (9) CNC Turning: Operations, (10) CNC Milling: Operations	<a href="https://www.nims-skills.org/web/nims/home">https://www.nims-skills.org/web/nims/home</a>
Manufacturing, Engineering and Technology	Manufacturing Engineering Technology (NIMS) - CNC Programming and Operations	091003	4	Manual Milling Skills I certification with Measurement, Materials & Safety exam	Students pass the Measurement, Materials & Safety exam and one of the following: (1) Job Planning, Benchwork & Layout, (2) Manual Milling Skills I, (3) Turning Operations: Turning Between Centers, (4) Turning Operations: Turning Chucking Skills, (5) Grinding Skills I, (6) Drill Press Skills I, (7) CNC Turning: Programming Setup & Operations, (8) CNC Milling: Programming Setup & Operations, (9) CNC Turning: Operations, (10) CNC Milling: Operations	<a href="https://www.nims-skills.org/web/nims/home">https://www.nims-skills.org/web/nims/home</a>
Manufacturing, Engineering and Technology	Manufacturing Engineering Technology (NIMS) - CNC Programming and Operations	091004	4	Turning Operations: Turning Between Centers certification with Measurement, Materials & Safety exam	Students pass the Measurement, Materials & Safety exam and one of the following: (1) Job Planning, Benchwork & Layout, (2) Manual Milling Skills I, (3) Turning Operations: Turning Between Centers, (4) Turning Operations: Turning Chucking Skills, (5) Grinding Skills I, (6) Drill Press Skills I, (7) CNC Turning: Programming Setup & Operations, (8) CNC Milling: Programming Setup & Operations, (9) CNC Turning: Operations, (10) CNC Milling: Operations	<a href="https://www.nims-skills.org/web/nims/home">https://www.nims-skills.org/web/nims/home</a>
Manufacturing, Engineering and Technology	Manufacturing Engineering Technology (NIMS) - CNC Programming and Operations	091005	4	NIMS Turning Operations: Turning Chucking Skills certification with Measurement, Materials & Safety exam	Students pass the Measurement, Materials & Safety exam and one of the following: (1) Job Planning, Benchwork & Layout, (2) Manual Milling Skills I, (3) Turning Operations: Turning Between Centers, (4) Turning Operations: Turning Chucking Skills, (5) Grinding Skills I, (6) Drill Press Skills I, (7) CNC Turning: Programming Setup & Operations, (8) CNC Milling: Programming Setup & Operations, (9) CNC Turning: Operations, (10) CNC Milling: Operations	<a href="https://www.nims-skills.org/web/nims/home">https://www.nims-skills.org/web/nims/home</a>
Manufacturing, Engineering and Technology	Manufacturing Engineering Technology (NIMS) - CNC Programming and Operations	091006	4	NIMS Grinding Skills I certification with Measurement, Materials & Safety exam	Students pass the Measurement, Materials & Safety exam and one of the following: (1) Job Planning, Benchwork & Layout, (2) Manual Milling Skills I, (3) Turning Operations: Turning Between Centers, (4) Turning Operations: Turning Chucking Skills, (5) Grinding Skills I, (6) Drill Press Skills I, (7) CNC Turning: Programming Setup & Operations, (8) CNC Milling: Programming Setup & Operations, (9) CNC Turning: Operations, (10) CNC Milling: Operations	<a href="https://www.nims-skills.org/web/nims/home">https://www.nims-skills.org/web/nims/home</a>

Career Cluster	CIP TITLE	TSA Codes	ADA	Technical Skill Assessment	Specific Criteria	Websites for Additional Information
Manufacturing, Engineering and Technology	Manufacturing Engineering Technology (NIMS) - CNC Programming and Operations	091007	4	NIMS Drill Press Skills I certification with Measurement, Materials & Safety exam	Students pass the Measurement, Materials & Safety exam and one of the following: (1) Job Planning, Benchwork & Layout, (2) Manual Milling Skills I, (3) Turning Operations: Turning Between Centers, (4) Turning Operations: Turning Chucking Skills, (5) Grinding Skills I, (6) Drill Press Skills I, (7) CNC Turning: Programming Setup & Operations, (8) CNC Milling: Programming Setup & Operations, (9) CNC Turning: Operations, (10) CNC Milling: Operations	<a href="https://www.nims-skills.org/web/nims/home">https://www.nims-skills.org/web/nims/home</a>
Manufacturing, Engineering and Technology	Manufacturing Engineering Technology (NIMS) - CNC Programming and Operations	091008	4	NIMS CNC Turning: Programming Setup & Operations certification with Measurement, Materials & Safety exam	Students pass the Measurement, Materials & Safety exam and one of the following: (1) Job Planning, Benchwork & Layout, (2) Manual Milling Skills I, (3) Turning Operations: Turning Between Centers, (4) Turning Operations: Turning Chucking Skills, (5) Grinding Skills I, (6) Drill Press Skills I, (7) CNC Turning: Programming Setup & Operations, (8) CNC Milling: Programming Setup & Operations, (9) CNC Turning: Operations, (10) CNC Milling: Operations	<a href="https://www.nims-skills.org/web/nims/home">https://www.nims-skills.org/web/nims/home</a>
Manufacturing, Engineering and Technology	Manufacturing Engineering Technology (NIMS) - CNC Programming and Operations	091009	4	NIMS CNC Milling: Pgm Setup & Operations certification with Measurement, Materials & Safety exam	Students pass the Measurement, Materials & Safety exam and one of the following: (1) Job Planning, Benchwork & Layout, (2) Manual Milling Skills I, (3) Turning Operations: Turning Between Centers, (4) Turning Operations: Turning Chucking Skills, (5) Grinding Skills I, (6) Drill Press Skills I, (7) CNC Turning: Programming Setup & Operations, (8) CNC Milling: Programming Setup & Operations, (9) CNC Turning: Operations, (10) CNC Milling: Operations	<a href="https://www.nims-skills.org/web/nims/home">https://www.nims-skills.org/web/nims/home</a>
Manufacturing, Engineering and Technology	Manufacturing Engineering Technology (NIMS) - CNC Programming and Operations	091010	4	NIMS CNC Turning: Operations certification with Measurement, Materials & Safety exam	Students pass the Measurement, Materials & Safety exam and one of the following: (1) Job Planning, Benchwork & Layout, (2) Manual Milling Skills I, (3) Turning Operations: Turning Between Centers, (4) Turning Operations: Turning Chucking Skills, (5) Grinding Skills I, (6) Drill Press Skills I, (7) CNC Turning: Programming Setup & Operations, (8) CNC Milling: Programming Setup & Operations, (9) CNC Turning: Operations, (10) CNC Milling: Operations	<a href="https://www.nims-skills.org/web/nims/home">https://www.nims-skills.org/web/nims/home</a>
Manufacturing, Engineering and Technology	Manufacturing Engineering Technology (NIMS) - CNC Programming and Operations	091011	4	NIMS CNC Milling: Operations certification with Measurement, Materials & Safety exam	Students pass the Measurement, Materials & Safety exam and one of the following: (1) Job Planning, Benchwork & Layout, (2) Manual Milling Skills I, (3) Turning Operations: Turning Between Centers, (4) Turning Operations: Turning Chucking Skills, (5) Grinding Skills I, (6) Drill Press Skills I, (7) CNC Turning: Programming Setup & Operations, (8) CNC Milling: Programming Setup & Operations, (9) CNC Turning: Operations, (10) CNC Milling: Operations	<a href="https://www.nims-skills.org/web/nims/home">https://www.nims-skills.org/web/nims/home</a>
Manufacturing, Engineering and Technology	Manufacturing Engineering Technology (NIMS) - CNC Programming and Operations	111090	S	State Skill Certificate	The State Skill Certificate verifies the skills obtained during a students' apprenticeship. To receive the certificate, students must complete a minimum of 450 hours of work-based training and one year of related classroom instruction.	

Career Cluster	CIP TITLE	TSA Codes	ADA	Technical Skill Assessment	Specific Criteria	Websites for Additional Information
Manufacturing, Engineering and Technology	Manufacturing Engineering Technology (NIMS) - CNC Programming and Operations	091099	S	College Credit	Based on articulation agreements and dual enrollment options in the program, students can obtain TSAs once they have passed course requirements and are eligible to receive college credit.	
Manufacturing, Engineering and Technology	Manufacturing Engineering Technology (NIMS) - Machining/CNC Programming and Operations	091002	4	Job Planning, Benchwork & Layout certification with Measurement, Materials & Safety exam	Students pass the Measurement, Materials & Safety exam and one of the following: (1) Job Planning, Benchwork & Layout, (2) Manual Milling Skills I, (3) Turning Operations: Turning Between Centers, (4) Turning Operations: Turning Chucking Skills, (5) Grinding Skills I, (6) Drill Press Skills I, (7) CNC Turning: Programming Setup & Operations, (8) CNC Milling: Programming Setup & Operations, (9) CNC Turning: Operations, (10) CNC Milling: Operations	<a href="https://www.nims-skills.org/web/nims/home">https://www.nims-skills.org/web/nims/home</a>
Manufacturing, Engineering and Technology	Manufacturing Engineering Technology (NIMS) - Machining/CNC Programming and Operations	091003	4	Manual Milling Skills I certification with Measurement, Materials & Safety exam	Students pass the Measurement, Materials & Safety exam and one of the following: (1) Job Planning, Benchwork & Layout, (2) Manual Milling Skills I, (3) Turning Operations: Turning Between Centers, (4) Turning Operations: Turning Chucking Skills, (5) Grinding Skills I, (6) Drill Press Skills I, (7) CNC Turning: Programming Setup & Operations, (8) CNC Milling: Programming Setup & Operations, (9) CNC Turning: Operations, (10) CNC Milling: Operations	<a href="https://www.nims-skills.org/web/nims/home">https://www.nims-skills.org/web/nims/home</a>
Manufacturing, Engineering and Technology	Manufacturing Engineering Technology (NIMS) - Machining/CNC Programming and Operations	091004	4	Turning Operations: Turning Between Centers certification with Measurement, Materials & Safety exam	Students pass the Measurement, Materials & Safety exam and one of the following: (1) Job Planning, Benchwork & Layout, (2) Manual Milling Skills I, (3) Turning Operations: Turning Between Centers, (4) Turning Operations: Turning Chucking Skills, (5) Grinding Skills I, (6) Drill Press Skills I, (7) CNC Turning: Programming Setup & Operations, (8) CNC Milling: Programming Setup & Operations, (9) CNC Turning: Operations, (10) CNC Milling: Operations	<a href="https://www.nims-skills.org/web/nims/home">https://www.nims-skills.org/web/nims/home</a>
Manufacturing, Engineering and Technology	Engineering Technology	031003	6	Autodesk Inventor Certification	Students are required to pass Autodesk's AutoCAD, Revit, or Inventor certification assessments	<a href="http://www.autodesk.org">www.autodesk.org</a>
Manufacturing, Engineering and Technology	Engineering Technology	111090	S	State Skill Certificate	The State Skill Certificate verifies the skills obtained during a students' apprenticeship. To receive the certificate, students must complete a minimum of 450 hours of work-based training and one year of related classroom instruction.	
Manufacturing, Engineering and Technology	Engineering Technology	091099	S	College Credit	Based on articulation agreements and dual enrollment options in the program, students can obtain TSAs once they have passed course requirements and are eligible to receive college credit.	
Manufacturing, Engineering and Technology	Manufacturing Engineering Technology (MSSC)	091012	1	Quality Practices & Measurement with Safety exam (MSSC)	Students must pass the Safety exam and one of the following: (1) Quality Practices & Measurement (2) Manufacturing Processes & Production, (3) Maintenance Awareness	<a href="https://www.msscusa.org/certification/">https://www.msscusa.org/certification/</a>
Manufacturing, Engineering and Technology	Manufacturing Engineering Technology (MSSC)	091013	1	Manufacturing Processes & Production with Safety exam (MSSC)	Students must pass the Safety exam and one of the following: (1) Quality Practices & Measurement (2) Manufacturing Processes & Production, (3) Maintenance Awareness	<a href="https://www.msscusa.org/certification/">https://www.msscusa.org/certification/</a>

Career Cluster	CIP TITLE	TSA Codes	ADA	Technical Skill Assessment	Specific Criteria	Websites for Additional Information
Manufacturing, Engineering and Technology	Manufacturing Engineering Technology (MSSC)	091014	1	Maintenance Awareness with Safety exam (MSSC)	Students must pass the Safety exam and one of the following: (1) Quality Practices & Measurement (2) Manufacturing Processes & Production, (3) Maintenance Awareness	<a href="https://www.msscusa.org/certification/">https://www.msscusa.org/certification/</a>
Manufacturing, Engineering and Technology	Manufacturing Engineering Technology (MSSC)	111090	5	State Skill Certificate	The State Skill Certificate verifies the skills obtained during a students' apprenticeship. To receive the certificate, students must complete a minimum of 450 hours of work-based training and one year of related classroom instruction.	
Transportation Technologies	Automotive Technology Maintenance and Light Repair- Plus (NATEF)	101001	5	Suspension and Steering student certification	Pass one of the following ASE Student Certification exams: (1) Suspension and Steering, (2) Brakes, (3) Electrical/ Electronic Systems, (4) Engine Performance, (5) Engine Repair, (6) Automatic Transmission/ Transaxle, (7) Manual Drive Train and Axles, OR (8) Heating and Air Conditioning. Developed by ASE in partnership with AYES, NATEF, and SkillsUSA	<a href="https://www.ase.com/Tests/ASE-Certification-Tests.aspx">https://www.ase.com/Tests/ASE-Certification-Tests.aspx</a>
Transportation Technologies	Automotive Technology Maintenance and Light Repair- Plus (NATEF)	101002	5	Brakes student certification	Pass one of the following ASE Student Certification exams: (1) Suspension and Steering, (2) Brakes, (3) Electrical/ Electronic Systems, (4) Engine Performance, (5) Engine Repair, (6) Automatic Transmission/ Transaxle, (7) Manual Drive Train and Axles, OR (8) Heating and Air Conditioning. Developed by ASE in partnership with AYES, NATEF, and SkillsUSA	<a href="https://www.ase.com/Tests/ASE-Certification-Tests.aspx">https://www.ase.com/Tests/ASE-Certification-Tests.aspx</a>
Transportation Technologies	Automotive Technology Maintenance and Light Repair- Plus (NATEF)	101003	5	Electrical/ Electronic Systems student certification	Pass one of the following ASE Student Certification exams: (1) Suspension and Steering, (2) Brakes, (3) Electrical/ Electronic Systems, (4) Engine Performance, (5) Engine Repair, (6) Automatic Transmission/ Transaxle, (7) Manual Drive Train and Axles, OR (8) Heating and Air Conditioning. Developed by ASE in partnership with AYES, NATEF, and SkillsUSA	<a href="https://www.ase.com/Tests/ASE-Certification-Tests.aspx">https://www.ase.com/Tests/ASE-Certification-Tests.aspx</a>
Transportation Technologies	Automotive Technology Maintenance and Light Repair- Plus (NATEF)	101004	5	Engine Performance student certification	Pass one of the following ASE Student Certification exams: (1) Suspension and Steering, (2) Brakes, (3) Electrical/ Electronic Systems, (4) Engine Performance, (5) Engine Repair, (6) Automatic Transmission/ Transaxle, (7) Manual Drive Train and Axles, OR (8) Heating and Air Conditioning. Developed by ASE in partnership with AYES, NATEF, and SkillsUSA	<a href="https://www.ase.com/Tests/ASE-Certification-Tests.aspx">https://www.ase.com/Tests/ASE-Certification-Tests.aspx</a>
Transportation Technologies	Automotive Technology Maintenance and Light Repair- Plus (NATEF)	101005	5	Engine Repair student certification	Pass one of the following ASE Student Certification exams: (1) Suspension and Steering, (2) Brakes, (3) Electrical/ Electronic Systems, (4) Engine Performance, (5) Engine Repair, (6) Automatic Transmission/ Transaxle, (7) Manual Drive Train and Axles, OR (8) Heating and Air Conditioning. Developed by ASE in partnership with AYES, NATEF, and SkillsUSA	<a href="https://www.ase.com/Tests/ASE-Certification-Tests.aspx">https://www.ase.com/Tests/ASE-Certification-Tests.aspx</a>

Career Cluster	CIP TITLE	TSA Codes	ADA	Technical Skill Assessment	Specific Criteria	Websites for Additional Information
Transportation Technologies	Automotive Technology Maintenance and Light Repair- Plus (NATEF)	101006	5	Automatic Transmission/Transaxle student certification	Pass one of the following ASE Student Certification exams: (1) Suspension and Steering, (2) Brakes, (3) Electrical/ Electronic Systems, (4) Engine Performance, (5) Engine Repair, (6) Automatic Transmission/ Transaxle, (7) Manual Drive Train and Axles, OR (8) Heating and Air Conditioning. Developed by ASE in partnership with AYES, NATEF, and SkillsUSA	<a href="https://www.ase.com/Tests/ASE-Certification-Tests.aspx">https://www.ase.com/Tests/ASE-Certification-Tests.aspx</a>
Transportation Technologies	Automotive Technology Maintenance and Light Repair- Plus (NATEF)	101007	5	Manual Drive Train and Axles student certification	Pass one of the following ASE Student Certification exams: (1) Suspension and Steering, (2) Brakes, (3) Electrical/ Electronic Systems, (4) Engine Performance, (5) Engine Repair, (6) Automatic Transmission/ Transaxle, (7) Manual Drive Train and Axles, OR (8) Heating and Air Conditioning. Developed by ASE in partnership with AYES, NATEF, and SkillsUSA	<a href="https://www.ase.com/Tests/ASE-Certification-Tests.aspx">https://www.ase.com/Tests/ASE-Certification-Tests.aspx</a>
Transportation Technologies	Automotive Technology Maintenance and Light Repair- Plus (NATEF)	101008	5	Heating and Air Conditioning student certification	Pass one of the following ASE Student Certification exams: (1) Suspension and Steering, (2) Brakes, (3) Electrical/ Electronic Systems, (4) Engine Performance, (5) Engine Repair, (6) Automatic Transmission/ Transaxle, (7) Manual Drive Train and Axles, OR (8) Heating and Air Conditioning. Developed by ASE in partnership with AYES, NATEF, and SkillsUSA	<a href="https://www.ase.com/Tests/ASE-Certification-Tests.aspx">https://www.ase.com/Tests/ASE-Certification-Tests.aspx</a>
Transportation Technologies	Automotive Technology Maintenance and Light Repair- Plus (NATEF)	101009	5	Maintenance and Light Repair student certification	Pass one of the following ASE Student Certification exams: (1) Suspension and Steering, (2) Brakes, (3) Electrical/ Electronic Systems, (4) Engine Performance, (5) Engine Repair, (6) Automatic Transmission/ Transaxle, (7) Manual Drive Train and Axles, OR (8) Heating and Air Conditioning. Developed by ASE in partnership with AYES, NATEF, and SkillsUSA	<a href="https://www.ase.com/Tests/ASE-Certification-Tests.aspx">https://www.ase.com/Tests/ASE-Certification-Tests.aspx</a>
Transportation Technologies	Automotive Technology Maintenance and Light Repair- Plus (NATEF)	111090	S	State Skill Certificate	The State Skill Certificate verifies the skills obtained during a students' apprenticeship. To receive the certificate, students must complete a minimum of 450 hours of work-based training and one year of related classroom instruction.	
Transportation Technologies	Automotive Technology Maintenance and Light Repair- Plus (NATEF)	101099	S	College Credit	Based on articulation agreements and dual enrollment options in the program, students can obtain TSAs once they have passed course requirements and are eligible to receive college credit.	
Transportation Technologies	Autobody/Collision Repair Technician (NATEF)	101010	5	Painting and Refinishing student certification	Pass one of the following ASE Student Certification exams: (1) Painting and Refinishing OR (2) Structural Analysis and Damage Repair. Developed by ASE in partnership with AYES, NATEF, and SkillsUSA.	<a href="https://www.ase.com/Tests/ASE-Certification-Tests.aspx">https://www.ase.com/Tests/ASE-Certification-Tests.aspx</a>
Transportation Technologies	Autobody/Collision Repair Technician (NATEF)	101011	5	Structural Analysis and Damage Repair student certification	Pass one of the following ASE Student Certification exams: (1) Painting and Refinishing OR (2) Structural Analysis and Damage Repair. Developed by ASE in partnership with AYES, NATEF, and SkillsUSA.	<a href="https://www.ase.com/Tests/ASE-Certification-Tests.aspx">https://www.ase.com/Tests/ASE-Certification-Tests.aspx</a>
Transportation Technologies	Autobody/Collision Repair Technician (NATEF)	101012	S	I-CAR Platinum Certificate		<a href="http://www.i-car.com/Home/Educational-Programs">www.i-car.com/Home/Educational-Programs</a>

Career Cluster	CIP TITLE	TSA Codes	ADA	Technical Skill Assessment	Specific Criteria	Websites for Additional Information
Transportation Technologies	Autobody/Collision Repair Technician (NATEF)	111090	S	State Skill Certificate	The State Skill Certificate verifies the skills obtained during a students' apprenticeship. To receive the certificate, students must complete a minimum of 450 hours of work-based training and one year of related classroom instruction.	
Transportation Technologies	Autobody/Collision Repair Technician (NATEF)	101099	S	College Credit	Based on articulation agreements and dual enrollment options in the program, students can obtain TSAs once they have passed course requirements and are eligible to receive college credit.	
Transportation Technologies	Medium/Heavy Truck Technician- Diesel (NATEF)	101013	5	Diesel Engines student certification	Pass one of the following ASE Student Certification exams: (1) Diesel Engines, (2) Electrical/Electronic Systems, (3) Brakes, (4) Suspension and Steering. Developed by ASE in partnership with AYES, NATEF, and SkillsUSA.	<a href="https://www.ase.com/Tests/ASE-Certification-Tests.aspx">https://www.ase.com/Tests/ASE-Certification-Tests.aspx</a>
Transportation Technologies	Medium/Heavy Truck Technician- Diesel (NATEF)	101003	5	Electrical/Electronic Systems student certification	Pass one of the following ASE Student Certification exams: (1) Diesel Engines, (2) Electrical/Electronic Systems, (3) Brakes, (4) Suspension and Steering. Developed by ASE in partnership with AYES, NATEF, and SkillsUSA.	<a href="https://www.ase.com/Tests/ASE-Certification-Tests.aspx">https://www.ase.com/Tests/ASE-Certification-Tests.aspx</a>
Transportation Technologies	Medium/Heavy Truck Technician- Diesel (NATEF)	101002	5	Brakes student certification	Pass one of the following ASE Student Certification exams: (1) Diesel Engines, (2) Electrical/Electronic Systems, (3) Brakes, (4) Suspension and Steering. Developed by ASE in partnership with AYES, NATEF, and SkillsUSA.	<a href="https://www.ase.com/Tests/ASE-Certification-Tests.aspx">https://www.ase.com/Tests/ASE-Certification-Tests.aspx</a>
Transportation Technologies	Medium/Heavy Truck Technician- Diesel (NATEF)	101001	5	Suspension and Steering student certification	Pass one of the following ASE Student Certification exams: (1) Diesel Engines, (2) Electrical/Electronic Systems, (3) Brakes, (4) Suspension and Steering. Developed by ASE in partnership with AYES, NATEF, and SkillsUSA.	<a href="https://www.ase.com/Tests/ASE-Certification-Tests.aspx">https://www.ase.com/Tests/ASE-Certification-Tests.aspx</a>
Transportation Technologies	Medium/Heavy Truck Technician- Diesel (NATEF)	111090	S	State Skill Certificate	The State Skill Certificate verifies the skills obtained during a students' apprenticeship. To receive the certificate, students must complete a minimum of 450 hours of work-based training and one year of related classroom instruction.	
Transportation Technologies	Medium/Heavy Truck Technician- Diesel (NATEF)	101099	S	College Credit	Based on articulation agreements and dual enrollment options in the program, students can obtain TSAs once they have passed course requirements and are eligible to receive college credit.	
Transportation Technologies	Marine Maintenance and Repair Technologies	101018	1	NOCTI - ABYC certification in Marine Service Technology Fundamentals	The American Boat and Yacht Council (ABYC) certification in Marine Service Technology Fundamentals is a NOCTI developed certification exam in partnership with ABYC based on ABYC curriculum that covers over 240 hrs of content.	<a href="https://nocti.org/ABYC.cfm">https://nocti.org/ABYC.cfm</a>
Transportation Technologies	Marine Maintenance and Repair Technologies	111090	S	State Skill Certificate	The State Skill Certificate verifies the skills obtained during a students' apprenticeship. To receive the certificate, students must complete a minimum of 450 hours of work-based training and one year of related classroom instruction.	
Transportation Technologies	Transportation, Logistics, and Cargo Security	101099	S	College Credit	Based on articulation agreements and dual enrollment options in the program, students can obtain TSAs once they have passed course requirements and are eligible to receive college credit.	

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Transportation Technologies	Transportation, Logistics, and Cargo Security	111090	S	State Skill Certificate	The State Skill Certificate verifies the skills obtained during a students' apprenticeship. To receive the certificate, students must complete a minimum of 450 hours of work-based training and one year of related classroom instruction.	
Transportation Technologies	Local Automotive Transportation Technologies	101001	5	Suspension and Steering student certification	Pass one of the following ASE Student Certification exams: (1) Suspension and Steering, (2) Brakes, (3) Electrical/ Electronic Systems, (4) Engine Performance, (5) Engine Repair, (6) Automatic Transmission/ Transaxle, (7) Manual Drive Train and Axles, (8) Heating and Air Conditioning, (9) Maintenance and Light Repair, or (10) Diesel Engines. Developed by ASE in partnership with AYES, NATEF, and SkillsUSA	<a href="https://www.ase.com/Tests/ASE-Certification-Tests.aspx">https://www.ase.com/Tests/ASE-Certification-Tests.aspx</a>
Transportation Technologies	Local Automotive Transportation Technologies	101002	5	Brakes student certification	Pass one of the following ASE Student Certification exams: (1) Suspension and Steering, (2) Brakes, (3) Electrical/ Electronic Systems, (4) Engine Performance, (5) Engine Repair, (6) Automatic Transmission/ Transaxle, (7) Manual Drive Train and Axles, (8) Heating and Air Conditioning, (9) Maintenance and Light Repair, or (10) Diesel Engines. Developed by ASE in partnership with AYES, NATEF, and SkillsUSA	<a href="https://www.ase.com/Tests/ASE-Certification-Tests.aspx">https://www.ase.com/Tests/ASE-Certification-Tests.aspx</a>
Transportation Technologies	Local Automotive Transportation Technologies	101003	5	Electrical/ Electronic Systems student certification	Pass one of the following ASE Student Certification exams: (1) Suspension and Steering, (2) Brakes, (3) Electrical/ Electronic Systems, (4) Engine Performance, (5) Engine Repair, (6) Automatic Transmission/ Transaxle, (7) Manual Drive Train and Axles, (8) Heating and Air Conditioning, (9) Maintenance and Light Repair, or (10) Diesel Engines. Developed by ASE in partnership with AYES, NATEF, and SkillsUSA	<a href="https://www.ase.com/Tests/ASE-Certification-Tests.aspx">https://www.ase.com/Tests/ASE-Certification-Tests.aspx</a>
Transportation Technologies	Local Automotive Transportation Technologies	101004	5	Engine Performance student certification	Pass one of the following ASE Student Certification exams: (1) Suspension and Steering, (2) Brakes, (3) Electrical/ Electronic Systems, (4) Engine Performance, (5) Engine Repair, (6) Automatic Transmission/ Transaxle, (7) Manual Drive Train and Axles, (8) Heating and Air Conditioning, (9) Maintenance and Light Repair, or (10) Diesel Engines. Developed by ASE in partnership with AYES, NATEF, and SkillsUSA	<a href="https://www.ase.com/Tests/ASE-Certification-Tests.aspx">https://www.ase.com/Tests/ASE-Certification-Tests.aspx</a>
Transportation Technologies	Local Automotive Transportation Technologies	101005	5	Engine Repair student certification	Pass one of the following ASE Student Certification exams: (1) Suspension and Steering, (2) Brakes, (3) Electrical/ Electronic Systems, (4) Engine Performance, (5) Engine Repair, (6) Automatic Transmission/ Transaxle, (7) Manual Drive Train and Axles, (8) Heating and Air Conditioning, (9) Maintenance and Light Repair, or (10) Diesel Engines. Developed by ASE in partnership with AYES, NATEF, and SkillsUSA	<a href="https://www.ase.com/Tests/ASE-Certification-Tests.aspx">https://www.ase.com/Tests/ASE-Certification-Tests.aspx</a>



Career Cluster	CIP TITLE	TSA Codes	ADA	Technical Skill Assessment	Specific Criteria	Websites for Additional Information
Transportation Technologies	Local Automotive Transportation Technologies	101006	5	Automatic Transmission/Transaxle student certification	Pass one of the following ASE Student Certification exams: (1) Suspension and Steering, (2) Brakes, (3) Electrical/ Electronic Systems, (4) Engine Performance, (5) Engine Repair, (6) Automatic Transmission/ Transaxle, (7) Manual Drive Train and Axles, (8) Heating and Air Conditioning, (9) Maintenance and Light Repair, or (10) Diesel Engines. Developed by ASE in partnership with AYES, NATEF, and SkillsUSA	<a href="https://www.ase.com/Tests/ASE-Certification-Tests.aspx">https://www.ase.com/Tests/ASE-Certification-Tests.aspx</a>
Transportation Technologies	Local Automotive Transportation Technologies	101007	5	Manual Drive Train and Axles student certification	Pass one of the following ASE Student Certification exams: (1) Suspension and Steering, (2) Brakes, (3) Electrical/ Electronic Systems, (4) Engine Performance, (5) Engine Repair, (6) Automatic Transmission/ Transaxle, (7) Manual Drive Train and Axles, (8) Heating and Air Conditioning, (9) Maintenance and Light Repair, or (10) Diesel Engines. Developed by ASE in partnership with AYES, NATEF, and SkillsUSA	<a href="https://www.ase.com/Tests/ASE-Certification-Tests.aspx">https://www.ase.com/Tests/ASE-Certification-Tests.aspx</a>
Transportation Technologies	Local Automotive Transportation Technologies	101008	5	Heating and Air Conditioning student certification	Pass one of the following ASE Student Certification exams: (1) Suspension and Steering, (2) Brakes, (3) Electrical/ Electronic Systems, (4) Engine Performance, (5) Engine Repair, (6) Automatic Transmission/ Transaxle, (7) Manual Drive Train and Axles, (8) Heating and Air Conditioning, (9) Maintenance and Light Repair, or (10) Diesel Engines. Developed by ASE in partnership with AYES, NATEF, and SkillsUSA	<a href="https://www.ase.com/Tests/ASE-Certification-Tests.aspx">https://www.ase.com/Tests/ASE-Certification-Tests.aspx</a>
Transportation Technologies	Local Automotive Transportation Technologies	101009	5	Maintenance and Light Repair student certification	Pass one of the following ASE Student Certification exams: (1) Suspension and Steering, (2) Brakes, (3) Electrical/ Electronic Systems, (4) Engine Performance, (5) Engine Repair, (6) Automatic Transmission/ Transaxle, (7) Manual Drive Train and Axles, (8) Heating and Air Conditioning, (9) Maintenance and Light Repair, or (10) Diesel Engines. Developed by ASE in partnership with AYES, NATEF, and SkillsUSA	<a href="https://www.ase.com/Tests/ASE-Certification-Tests.aspx">https://www.ase.com/Tests/ASE-Certification-Tests.aspx</a>
Transportation Technologies	Local Automotive Transportation Technologies	101013	5	Diesel Engines student certification	Pass one of the following ASE Student Certification exams: (1) Suspension and Steering, (2) Brakes, (3) Electrical/ Electronic Systems, (4) Engine Performance, (5) Engine Repair, (6) Automatic Transmission/ Transaxle, (7) Manual Drive Train and Axles, (8) Heating and Air Conditioning, (9) Maintenance and Light Repair, or (10) Diesel Engines. Developed by ASE in partnership with AYES, NATEF, and SkillsUSA	<a href="https://www.ase.com/Tests/ASE-Certification-Tests.aspx">https://www.ase.com/Tests/ASE-Certification-Tests.aspx</a>
Transportation Technologies	Local Automotive Transportation Technologies	111090	5	State Skill Certificate	The State Skill Certificate verifies the skills obtained during a students' apprenticeship. To receive the certificate, students must complete a minimum of 450 hours of work-based training and one year of related classroom instruction.	

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Transportation Technologies	Local Automotive Transportation Technologies	101099	S	College Credit	Based on articulation agreements and dual enrollment options in the program, students can obtain TSAs once they have passed course requirements and are eligible to receive college credit.	
Transportation Technologies	Local Automotive Collision Repair	101010	5	Painting and Refinishing student certification	Pass one of the following ASE Student Certification exams: (1) Painting and Refinishing OR (2) Structural Analysis and Damage Repair. Developed by ASE in partnership with AYES, NATEF, and SkillsUSA.	<a href="https://www.ase.com/Tests/ASE-Certification-Tests.aspx">https://www.ase.com/Tests/ASE-Certification-Tests.aspx</a>
Transportation Technologies	Local Automotive Collision Repair	101011	5	Structural Analysis and Damage Repair student certification	Pass one of the following ASE Student Certification exams: (1) Painting and Refinishing OR (2) Structural Analysis and Damage Repair. Developed by ASE in partnership with AYES, NATEF, and SkillsUSA.	<a href="https://www.ase.com/Tests/ASE-Certification-Tests.aspx">https://www.ase.com/Tests/ASE-Certification-Tests.aspx</a>
Transportation Technologies	Local Automotive Collision Repair	101012	S	I-CAR Platinum Certificate		<a href="http://www.i-car.com/Home/Educational-Programs">www.i-car.com/Home/Educational-Programs</a>
Transportation Technologies	Local Automotive Collision Repair	111090	S	State Skill Certificate	The State Skill Certificate verifies the skills obtained during a students' apprenticeship. To receive the certificate, students must complete a minimum of 450 hours of work-based training and one year of related classroom instruction.	
Transportation Technologies	Local Automotive Collision Repair	101099	S	College Credit	Based on articulation agreements and dual enrollment options in the program, students can obtain TSAs once they have passed course requirements and are eligible to receive college credit.	
Career Research and Development	Career Research and Development	111099	S	College Credit	Based on articulation agreements and dual enrollment options in the program, students can obtain TSAs once they have passed course requirements and are eligible to receive college credit.	
Career Research and Development	Apprenticeship Maryland Program	111090	S	State Skill Certificate	The State Skill Certificate verifies the skills obtained during a students' apprenticeship. To receive the certificate, students must complete a minimum of 450 hours of work-based training and one year of related classroom instruction.	
Information Technology	IT Networking Academy (CISCO) - CCNA Security	081011	3	Cisco CCT	Students are required to pass one or more of the following: (1) CompTIA ITF, (2) CompTIA A+, (3) CompTIA Network+, (4) Cisco CCT, (5) Cisco CCENT, (6) Cisco CCNA RS, (7) Cisco CCNA Security, (8) CompTIA Security+, (9) NDG Linux Essentials, (10) CompTIA Linux+, (11) Cisco CCNA Cyber Ops, (12) CompTIA PenTest+	<a href="https://www.netacad.com/careers/certifications/">https://www.netacad.com/careers/certifications/</a>
Information Technology	IT Networking Academy (CISCO) - CCNA Security	081012	3	Cisco CCENT	Students are required to pass one or more of the following: (1) CompTIA ITF, (2) CompTIA A+, (3) CompTIA Network+, (4) Cisco CCT, (5) Cisco CCENT, (6) Cisco CCNA RS, (7) Cisco CCNA Security, (8) CompTIA Security+, (9) NDG Linux Essentials, (10) CompTIA Linux+, (11) Cisco CCNA Cyber Ops, (12) CompTIA PenTest+	<a href="https://www.netacad.com/careers/certifications/">https://www.netacad.com/careers/certifications/</a>

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Information Technology	IT Networking Academy (CISCO) - CCNA Security	081013	3	Cisco CCNA RS	Students are required to pass one or more of the following: (1) CompTIA ITF, (2) CompTIA A+, (3) CompTIA Network+, (4) Cisco CCT, (5) Cisco CCENT, (6) Cisco CCNA RS, (7) Cisco CCNA Security, (8) CompTIA Security+, (9) NDG Linux Essentials, (10) CompTIA Linux+, (11) Cisco CCNA Cyber Ops, (12) CompTIA PenTest+	<a href="https://www.netacad.com/careers/certifications/">https://www.netacad.com/careers/certifications/</a>
Information Technology	IT Networking Academy (CISCO) - CCNA Security	081014	3	Cisco CCNA Security	Students are required to pass one or more of the following: (1) CompTIA ITF, (2) CompTIA A+, (3) CompTIA Network+, (4) Cisco CCT, (5) Cisco CCENT, (6) Cisco CCNA RS, (7) Cisco CCNA Security, (8) CompTIA Security+, (9) NDG Linux Essentials, (10) CompTIA Linux+, (11) Cisco CCNA Cyber Ops, (12) CompTIA PenTest+	<a href="https://www.netacad.com/careers/certifications/">https://www.netacad.com/careers/certifications/</a>
Information Technology	IT Networking Academy (CISCO) - CCNA Security	081015	3	Cisco CCNA Cyber Ops	Students are required to pass one or more of the following: (1) CompTIA ITF, (2) CompTIA A+, (3) CompTIA Network+, (4) Cisco CCT, (5) Cisco CCENT, (6) Cisco CCNA RS, (7) Cisco CCNA Security, (8) CompTIA Security+, (9) NDG Linux Essentials, (10) CompTIA Linux+, (11) Cisco CCNA Cyber Ops, (12) CompTIA PenTest+	<a href="https://www.netacad.com/careers/certifications/">https://www.netacad.com/careers/certifications/</a>
Information Technology	IT Networking Academy (CISCO) - CCNA Security	111090	S	State Skill Certificate	The State Skill Certificate verifies the skills obtained during a students' apprenticeship. To receive the certificate, students must complete a minimum of 450 hours of work-based training and one year of related classroom instruction.	
Information Technology	IT Networking Academy (CISCO) - CCNA Security	081099	S	College Credit	Based on articulation agreements and dual enrollment options in the program, students can obtain TSAs once they have passed course requirements and are eligible to receive college credit.	
Information Technology	IT Networking Academy (CISCO) - CCNA Cybercesurity Operations	081004	3	CompTIA ITF	Students are required to pass one or more of the following: (1) CompTIA ITF, (2) CompTIA A+, (3) CompTIA Network+, (4) Cisco CCT, (5) Cisco CCENT, (6) Cisco CCNA RS, (7) Cisco CCNA Security, (8) CompTIA Security+, (9) NDG Linux Essentials, (10) CompTIA Linux+, (11) Cisco CCNA Cyber Ops, (12) CompTIA PenTest+	<a href="https://www.netacad.com/careers/certifications/">https://www.netacad.com/careers/certifications/</a> ; <a href="http://partners.comptia.org">http://partners.comptia.org</a>
Information Technology	IT Networking Academy (CISCO) - CCNA Cybercesurity Operations	081005	3	CompTIA A+	Students are required to pass one or more of the following: (1) CompTIA ITF, (2) CompTIA A+, (3) CompTIA Network+, (4) Cisco CCT, (5) Cisco CCENT, (6) Cisco CCNA RS, (7) Cisco CCNA Security, (8) CompTIA Security+, (9) NDG Linux Essentials, (10) CompTIA Linux+, (11) Cisco CCNA Cyber Ops, (12) CompTIA PenTest+	<a href="https://www.netacad.com/careers/certifications/">https://www.netacad.com/careers/certifications/</a> ; <a href="http://partners.comptia.org">http://partners.comptia.org</a>
Information Technology	IT Networking Academy (CISCO) - CCNA Cybercesurity Operations	081006	3	CompTIA Network+	Students are required to pass one or more of the following: (1) CompTIA ITF, (2) CompTIA A+, (3) CompTIA Network+, (4) Cisco CCT, (5) Cisco CCENT, (6) Cisco CCNA RS, (7) Cisco CCNA Security, (8) CompTIA Security+, (9) NDG Linux Essentials, (10) CompTIA Linux+, (11) Cisco CCNA Cyber Ops, (12) CompTIA PenTest+	<a href="https://www.netacad.com/careers/certifications/">https://www.netacad.com/careers/certifications/</a> ; <a href="http://partners.comptia.org">http://partners.comptia.org</a>

Career Cluster	CIP TITLE	TSA Codes	ADA	Technical Skill Assessment	Specific Criteria	Websites for Additional Information
Information Technology	IT Networking Academy (CISCO) - CCNA Cybercesurity Operations	081007	3	CompTIA Security+	Students are required to pass one or more of the following: (1) CompTIA ITF, (2) CompTIA A+, (3) CompTIA Network+, (4) Cisco CCT, (5) Cisco CCENT, (6) Cisco CCNA RS, (7) Cisco CCNA Security, (8) CompTIA Security+, (9) NDG Linux Essentials, (10) CompTIA Linux+, (11) Cisco CCNA Cyber Ops, (12) CompTIA PenTest+	<a href="https://www.netacad.com/careers/certifications/">https://www.netacad.com/careers/certifications/</a> ; <a href="http://partners.comptia.org">http://partners.comptia.org</a>
Information Technology	IT Networking Academy (CISCO) - CCNA Cybercesurity Operations	081008	3	CompTIA PenTest+	Students are required to pass one or more of the following: (1) CompTIA ITF, (2) CompTIA A+, (3) CompTIA Network+, (4) Cisco CCT, (5) Cisco CCENT, (6) Cisco CCNA RS, (7) Cisco CCNA Security, (8) CompTIA Security+, (9) NDG Linux Essentials, (10) CompTIA Linux+, (11) Cisco CCNA Cyber Ops, (12) CompTIA PenTest+	<a href="https://www.netacad.com/careers/certifications/">https://www.netacad.com/careers/certifications/</a> ; <a href="http://partners.comptia.org">http://partners.comptia.org</a>
Information Technology	IT Networking Academy (CISCO) - CCNA Cybercesurity Operations	081009	3	CompTIA Linux+	Students are required to pass one or more of the following: (1) CompTIA ITF, (2) CompTIA A+, (3) CompTIA Network+, (4) Cisco CCT, (5) Cisco CCENT, (6) Cisco CCNA RS, (7) Cisco CCNA Security, (8) CompTIA Security+, (9) NDG Linux Essentials, (10) CompTIA Linux+, (11) Cisco CCNA Cyber Ops, (12) CompTIA PenTest+	<a href="https://www.netacad.com/careers/certifications/">https://www.netacad.com/careers/certifications/</a> ; <a href="http://partners.comptia.org">http://partners.comptia.org</a>
Information Technology	IT Networking Academy (CISCO) - CCNA Cybercesurity Operations	081010	3	LPI Linux Essentials	Students are required to pass one or more of the following: (1) CompTIA ITF, (2) CompTIA A+, (3) CompTIA Network+, (4) Cisco CCT, (5) Cisco CCENT, (6) Cisco CCNA RS, (7) Cisco CCNA Security, (8) CompTIA Security+, (9) NDG Linux Essentials, (10) CompTIA Linux+, (11) Cisco CCNA Cyber Ops, (12) CompTIA PenTest+	<a href="https://www.netacad.com/careers/certifications/">https://www.netacad.com/careers/certifications/</a>
Information Technology	IT Networking Academy (CISCO) - CCNA Cybercesurity Operations	081011	3	Cisco CCT	Students are required to pass one or more of the following: (1) CompTIA ITF, (2) CompTIA A+, (3) CompTIA Network+, (4) Cisco CCT, (5) Cisco CCENT, (6) Cisco CCNA RS, (7) Cisco CCNA Security, (8) CompTIA Security+, (9) NDG Linux Essentials, (10) CompTIA Linux+, (11) Cisco CCNA Cyber Ops, (12) CompTIA PenTest+	<a href="https://www.netacad.com/careers/certifications/">https://www.netacad.com/careers/certifications/</a>
Information Technology	IT Networking Academy (CISCO) - CCNA Cybercesurity Operations	081012	3	Cisco CCENT	Students are required to pass one or more of the following: (1) CompTIA ITF, (2) CompTIA A+, (3) CompTIA Network+, (4) Cisco CCT, (5) Cisco CCENT, (6) Cisco CCNA RS, (7) Cisco CCNA Security, (8) CompTIA Security+, (9) NDG Linux Essentials, (10) CompTIA Linux+, (11) Cisco CCNA Cyber Ops, (12) CompTIA PenTest+	<a href="https://www.netacad.com/careers/certifications/">https://www.netacad.com/careers/certifications/</a>
Information Technology	IT Networking Academy (CISCO) - CCNA Cybercesurity Operations	081013	3	Cisco CCNA RS	Students are required to pass one or more of the following: (1) CompTIA ITF, (2) CompTIA A+, (3) CompTIA Network+, (4) Cisco CCT, (5) Cisco CCENT, (6) Cisco CCNA RS, (7) Cisco CCNA Security, (8) CompTIA Security+, (9) NDG Linux Essentials, (10) CompTIA Linux+, (11) Cisco CCNA Cyber Ops, (12) CompTIA PenTest+	<a href="https://www.netacad.com/careers/certifications/">https://www.netacad.com/careers/certifications/</a>

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Information Technology	IT Networking Academy (CISCO) - CCNA Cybercesurity Operations	081014	3	Cisco CCNA Security	Students are required to pass one or more of the following: (1) CompTIA ITF, (2) CompTIA A+, (3) CompTIA Network+, (4) Cisco CCT, (5) Cisco CCENT, (6) Cisco CCNA RS, (7) Cisco CCNA Security, (8) CompTIA Security+, (9) NDG Linux Essentials, (10) CompTIA Linux+, (11) Cisco CCNA Cyber Ops, (12) CompTIA PenTest+	<a href="https://www.netacad.com/careers/certifications/">https://www.netacad.com/careers/certifications/</a>
Information Technology	IT Networking Academy (CISCO) - CCNA Cybercesurity Operations	081015	3	Cisco CCNA Cyber Ops	Students are required to pass one or more of the following: (1) CompTIA ITF, (2) CompTIA A+, (3) CompTIA Network+, (4) Cisco CCT, (5) Cisco CCENT, (6) Cisco CCNA RS, (7) Cisco CCNA Security, (8) CompTIA Security+, (9) NDG Linux Essentials, (10) CompTIA Linux+, (11) Cisco CCNA Cyber Ops, (12) CompTIA PenTest+	<a href="https://www.netacad.com/careers/certifications/">https://www.netacad.com/careers/certifications/</a>
Information Technology	IT Networking Academy (CISCO) - CCNA Cybercesurity Operations	111090	S	State Skill Certificate	The State Skill Certificate verifies the skills obtained during a students' apprenticeship. To receive the certificate, students must complete a minimum of 450 hours of work-based training and one year of related classroom instruction.	
Information Technology	IT Networking Academy (CISCO) - CCNA Cybercesurity Operations	081099	S	College Credit	Based on articulation agreements and dual enrollment options in the program, students can obtain TSAs once they have passed course requirements and are eligible to receive college credit.	
Information Technology	Computer and Information Sciences	081001	S	NAF-Track Certification	NAF-Track Certification includes passing end of course exams, portfolio review, and internship requirements.	<a href="http://naf.org/our-approach/naftack">naf.org/our-approach/naftack</a>
Information Technology	Computer and Information Sciences	081004	3	CompTIA ITF	Students are required to pass one or more of the following: (1) CompTIA ITF, (2) CompTIA A+, (3) CompTIA Network+, (4) Cisco CCT, (5) Cisco CCENT, (6) Cisco CCNA RS, (7) Cisco CCNA Security, (8) CompTIA Security+, (9) NDG Linux Essentials, (10) CompTIA Linux+, (11) Cisco CCNA Cyber Ops, (12) CompTIA PenTest+	<a href="https://www.netacad.com/careers/certifications/">https://www.netacad.com/careers/certifications/</a> ; <a href="http://partners.comptia.org">http://partners.comptia.org</a>
Information Technology	Computer and Information Sciences	081005	3	CompTIA A+	Students are required to pass one or more of the following: (1) CompTIA ITF, (2) CompTIA A+, (3) CompTIA Network+, (4) Cisco CCT, (5) Cisco CCENT, (6) Cisco CCNA RS, (7) Cisco CCNA Security, (8) CompTIA Security+, (9) NDG Linux Essentials, (10) CompTIA Linux+, (11) Cisco CCNA Cyber Ops, (12) CompTIA PenTest+	<a href="https://www.netacad.com/careers/certifications/">https://www.netacad.com/careers/certifications/</a> ; <a href="http://partners.comptia.org">http://partners.comptia.org</a>
Information Technology	Computer and Information Sciences	081006	3	CompTIA Network+	Students are required to pass one or more of the following: (1) CompTIA ITF, (2) CompTIA A+, (3) CompTIA Network+, (4) Cisco CCT, (5) Cisco CCENT, (6) Cisco CCNA RS, (7) Cisco CCNA Security, (8) CompTIA Security+, (9) NDG Linux Essentials, (10) CompTIA Linux+, (11) Cisco CCNA Cyber Ops, (12) CompTIA PenTest+	<a href="https://www.netacad.com/careers/certifications/">https://www.netacad.com/careers/certifications/</a> ; <a href="http://partners.comptia.org">http://partners.comptia.org</a>
Information Technology	Computer and Information Sciences	081007	3	CompTIA Security+	Students are required to pass one or more of the following: (1) CompTIA ITF, (2) CompTIA A+, (3) CompTIA Network+, (4) Cisco CCT, (5) Cisco CCENT, (6) Cisco CCNA RS, (7) Cisco CCNA Security, (8) CompTIA Security+, (9) NDG Linux Essentials, (10) CompTIA Linux+, (11) Cisco CCNA Cyber Ops, (12) CompTIA PenTest+	<a href="https://www.netacad.com/careers/certifications/">https://www.netacad.com/careers/certifications/</a> ; <a href="http://partners.comptia.org">http://partners.comptia.org</a>

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Information Technology	Computer and Information Sciences	081008	3	CompTIA PenTest+	Students are required to pass one or more of the following: (1) CompTIA ITF, (2) CompTIA A+, (3) CompTIA Network+, (4) Cisco CCT, (5) Cisco CCENT, (6) Cisco CCNA RS, (7) Cisco CCNA Security, (8) CompTIA Security+, (9) NDG Linux Essentials, (10) CompTIA Linux+, (11) Cisco CCNA Cyber Ops, (12) CompTIA PenTest+	<a href="https://www.netacad.com/careers/certifications/">https://www.netacad.com/careers/certifications/</a> ; <a href="http://partners.comptia.org">http://partners.comptia.org</a>
Information Technology	Computer and Information Sciences	081009	3	CompTIA Linux+	Students are required to pass one or more of the following: (1) CompTIA ITF, (2) CompTIA A+, (3) CompTIA Network+, (4) Cisco CCT, (5) Cisco CCENT, (6) Cisco CCNA RS, (7) Cisco CCNA Security, (8) CompTIA Security+, (9) NDG Linux Essentials, (10) CompTIA Linux+, (11) Cisco CCNA Cyber Ops, (12) CompTIA PenTest+	<a href="https://www.netacad.com/careers/certifications/">https://www.netacad.com/careers/certifications/</a> ; <a href="http://partners.comptia.org">http://partners.comptia.org</a>
Information Technology	Computer and Information Sciences	081010	3	LPI Linux Essentials	Students are required to pass one or more of the following: (1) CompTIA ITF, (2) CompTIA A+, (3) CompTIA Network+, (4) Cisco CCT, (5) Cisco CCENT, (6) Cisco CCNA RS, (7) Cisco CCNA Security, (8) CompTIA Security+, (9) NDG Linux Essentials, (10) CompTIA Linux+, (11) Cisco CCNA Cyber Ops, (12) CompTIA PenTest+	<a href="https://www.netacad.com/careers/certifications/">https://www.netacad.com/careers/certifications/</a>
Information Technology	Computer and Information Sciences	081020	S	AP Computer Science Principles	Depending on the college, students may be eligible to earn college credit with a score of 3 or better on the AP exam.	<a href="https://apstudent.collegeboard.org/apcourse">https://apstudent.collegeboard.org/apcourse</a>
Information Technology	Computer and Information Sciences	081021	S	AP Computer Science A	Depending on the college, students may be eligible to earn college credit with a score of 3 or better on the AP exam.	<a href="https://apstudent.collegeboard.org/apcourse">https://apstudent.collegeboard.org/apcourse</a>
Information Technology	Computer and Information Sciences	111090	S	State Skill Certificate	The State Skill Certificate verifies the skills obtained during a students' apprenticeship. To receive the certificate, students must complete a minimum of 450 hours of work-based training and one year of related classroom instruction.	
Information Technology	Computer and Information Sciences	081099	S	College Credit	Based on articulation agreements and dual enrollment options in the program, students can obtain TSAs once they have passed course requirements and are eligible to receive college credit.	
Manufacturing, Engineering and Technology	Pre-Engineering (PTLW)	031001	6	Autodesk AutoCAD Certification	Students are required to pass Autodesk's AutoCAD, Revit or Inventor certification assessments.	<a href="http://www.autodesk.com/certification">www.autodesk.com/certification</a>
Manufacturing, Engineering and Technology	Pre-Engineering (PTLW)	031002	6	Autodesk Revit Certification	Students are required to pass Autodesk's AutoCAD, Revit or Inventor certification assessments.	<a href="http://www.autodesk.com/certification">www.autodesk.com/certification</a>
Manufacturing, Engineering and Technology	Pre-Engineering (PTLW)	031003	6	Autodesk Inventor	Students are required to pass Autodesk's AutoCAD, Revit or Inventor certification assessments.	<a href="http://www.autodesk.com/certification">www.autodesk.com/certification</a>
Manufacturing, Engineering and Technology	Pre-Engineering (PTLW)	081020	S	AP Computer Science Principles	Depending on the college, students may be eligible to earn college credit with a score of 3 or better on the AP exam.	<a href="https://apstudent.collegeboard.org/apcourse">https://apstudent.collegeboard.org/apcourse</a>
Manufacturing, Engineering and Technology	Pre-Engineering (PTLW)	111090	S	State Skill Certificate	The State Skill Certificate verifies the skills obtained during a students' apprenticeship. To receive the certificate, students must complete a minimum of 450 hours of work-based training and one year of related classroom instruction.	
Manufacturing, Engineering and Technology	Pre-Engineering (PTLW)	091099	S	College Credit	Based on articulation agreements and dual enrollment options in the program, students can obtain TSAs once they have passed course requirements and are eligible to receive college credit.	

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Manufacturing, Engineering and Technology	Drafting and Design Technology	031020	13	ADDA Apprentice Drafter Exam	An ADDA Apprentice Drafting Credential is the first step in an industry credentialing system that is based on an individual's knowledge and skills needed to understand essential manual and CAD drafting skills. The exam is basic drafting knowledge and not software specific.	
Manufacturing, Engineering and Technology	Drafting and Design Technology	031001	6	Autodesk AutoCAD Certification	Students are required to pass Autodesk's AutoCAD, Revit or Inventor certification assessments	<a href="http://www.autodesk.com/certification">www.autodesk.com/certification</a>
Manufacturing, Engineering and Technology	Drafting and Design Technology	031002	6	Autodesk Revit Certification	Students are required to pass Autodesk's AutoCAD, Revit or Inventor certification assessments	<a href="http://www.autodesk.com/certification">www.autodesk.com/certification</a>
Manufacturing, Engineering and Technology	Drafting and Design Technology	031003	6	Autodesk Inventor Certification	Students are required to pass Autodesk's AutoCAD, Revit or Inventor certification assessments	<a href="http://www.autodesk.com/certification">www.autodesk.com/certification</a>
Manufacturing, Engineering and Technology	Drafting and Design Technology	111090	S	State Skill Certificate	The State Skill Certificate verifies the skills obtained during a students' apprenticeship. To receive the certificate, students must complete a minimum of 450 hours of work-based training and one year of related classroom instruction.	
Manufacturing, Engineering and Technology	Drafting and Design Technology	031099	S	College Credit	Based on articulation agreements and dual enrollment options in the program, students can obtain TSAs once they have passed course requirements and are eligible to receive college credit.	
Manufacturing, Engineering and Technology	Engineering Technology	031001	6	Autodesk AutoCAD Certification	Students are required to pass Autodesk's AutoCAD, Revit, or Inventor certification assessments	<a href="http://www.autodesk.org">www.autodesk.org</a>
Manufacturing, Engineering and Technology	Engineering Technology	031002	6	Autodesk Revit Certification	Students are required to pass Autodesk's AutoCAD, Revit, or Inventor certification assessments	<a href="http://www.autodesk.org">www.autodesk.org</a>