

Trade and Industry

Cluster: Architecture & Construction

Pathway: Construction

Program of Study	Level One	Level Two	Level Three
Construction Technology	Construction Fundamentals 494480	Carpentry 494460	<ol style="list-style-type: none"> 1. Construction Lab 490040 2. Cabinetry 494470 3. Electrical 494500 4. HVACR 1 495100 5. Mechanical, Plumbing & Electrical Systems 493840 6. Plumbing 494510 7. Furniture Manufacturing I 494850 8. Furniture Manufacturing II 494870 9. Furniture Manufacturing Lab 490060 10. Youth Apprenticeship – T&I: Architecture and
	NOCTI-Job Ready <ol style="list-style-type: none"> 1. Fundamentals of Construction 2. Basic Principles of Construction (Certificate) 3. Plumbing Year 1 4. Building Construction Occupations 5. Electrical Occupations 6. Building Construction Technology- Basic NOCTI- Employability Skills <ol style="list-style-type: none"> 1. 21st Century Skills for Workforce Success 2. Employability Skills 3. Workplace Readiness Career Readiness Certificate- Bronze	NOCTI- Job Ready <ol style="list-style-type: none"> 1. Carpentry 2. Carpentry- Basic (Certificate) 3. House Wiring-Basic (Certificate) 4. Plumbing Year 2 5. S/P2 Human Resources Certification 6. Plumbing Basic (Certificate) OSHA 10 or OSHA 30 NCCER Core Career Readiness Certificate- Silver MCAS-Microsoft Office <ol style="list-style-type: none"> 1. Access 2. Excel 3. Outlook 4. PowerPoint 5. Office Microsoft Office Specialist <ol style="list-style-type: none"> 1. Access 2. Excel 3. Excel Expert 4. Master 5. Outlook 6. PowerPoint 7. Word 8. Word Expert 	NOCTI-Job Ready <ol style="list-style-type: none"> 1. Architectural Drafting 2. Cabinetmaking 3. CAD 4. Construction Masonry-Block 5. Construction-Masonry – Brick 6. Plumbing Year 3 (Certificate) 7. Plumbing Advanced (Certificate) Career Readiness Certificate-Gold OSHA Employability Interview Skills S/P2 Soft Skills Certification OSHA 10 or OSHA 30 NCCER Construction Technology NCCER Electrical

Cluster: Architecture & Construction

Pathway: Construction

Program of Study	Level One	Level Two	Level Three
Heating, Ventilation, Air Conditioning, and Refrigeration (HVACR)	HVACR I 495100	HVACR II 495110	<ol style="list-style-type: none"> 1. HVACR Lab 490070 2. Cabinetry 494470 3. Carpentry 494460 4. Electrical 494500 5. Mechanical, Plumbing & Electrical Systems 493840 6. Plumbing 494510 7. Youth Apprenticeship – T&I: Architecture and Construction 490340
	NOCTI- Employability Skills <ol style="list-style-type: none"> 1. 21st Century Skills for Workforce Success 2. Employability Skills 3. Workplace Readiness Career Readiness Certificate- Bronze NOCTI-Job Ready <ol style="list-style-type: none"> 1. Fundamentals of Construction 2. Basic Principles of Construction (Certificate) 3. Plumbing Year 1 4. Building Construction Occupations 5. Electrical Occupations 6. Building Construction Technology- Basic 7. HVAC-Basic (Certificate) 	OSHA 10 or OSHA 30 NCCER Core NOCTI- Job Ready <ol style="list-style-type: none"> 1. Carpentry 2. Carpentry- Basic (Certificate) 3. House Wiring-Basic (Certificate) 4. Plumbing Year 2 5. S/P2 Human Resources Certification 6. Plumbing Basic (Certificate) 7. HVACR-Installation and Start-UP Career Readiness Certificate- Silver MCAS-Microsoft Office <ol style="list-style-type: none"> 1. Access 2. Excel 3. Outlook 4. PowerPoint 5. Office Microsoft Office Specialist <ol style="list-style-type: none"> 1. Access 2. Excel 3. Excel Expert 4. Master 5. Outlook 6. PowerPoint 7. Word 8. Word Expert 	NOCTI-Job Ready <ol style="list-style-type: none"> 1. Architectural Drafting 2. Cabinetmaking 3. CAD 4. Plumbing Year 3 (Certificate) 5. Plumbing Advanced (Certificate) 6. HVAC Service Tech-Advanced (Certificate) 7. House Wiring – Advanced (Certificate) Career Readiness Certificate- Gold ShopBot Certification S/P2 Construction Certification NCCER Construction Technology NCCER Electrical

Cluster: Arts, A/V Technology & Communications

Pathway: A/V Technology & Film

Program of Study	Level One	Level Two	Level Three
A/V Tech and Film	Fundamentals of Audio/Video Tech & Film 493640	Intermediate Audio/Video Tech & Film 493650	<ol style="list-style-type: none"> 1. Advanced Audio/Video Tech & Film 493660 2. Audio/Video Tech and Film Lab 493670 3. Youth Apprenticeship – T&I: Arts, Audio/Video Technology and Communications 490350
	Career Readiness Certificate-Bronze NOCTI-Employability Skills <ol style="list-style-type: none"> 1. 21st Century Skills for Workforce Success 2. Career Skills (Middle School) 3. Employability Skills 4. Workplace Readiness 5. Workplace Success Skills (Middle School) Adobe Certified Associate: <ol style="list-style-type: none"> 1. Illustrator 2. InDesign 3. Media Communications Flash 4. Premiere Pro 5. Rich Media Communication-Flash 6. Photoshop 7. Photoshop (CS3) 8. Photoshop (CS4) 9. Dreamweaver Adobe Certified Expert <ol style="list-style-type: none"> 1. Illustrator 2. InDesign 3. Photoshop 4. Premiere Pro 	Career Readiness Certificate-Silver MCAS-Microsoft Office <ol style="list-style-type: none"> 1. Access 2. Excel 3. Outlook 4. PowerPoint 5. Office Microsoft Office Specialist <ol style="list-style-type: none"> 1. Access 2. Excel 3. Excel Expert 4. Master 5. Outlook 6. PowerPoint 7. Word 8. Word Expert 	Career Readiness Certificate-Gold NOCTI-Job Ready <ol style="list-style-type: none"> 1. Audio-Video Communications 2. Graphic Production Technology 3. Television Production 4. Visual Communications and Interactive Media Design

Cluster: Arts, A/V Technology & Communications
Pathway: Journalism & Broadcasting

Program of Study	Level One	Level Two	Level Three
Radio Broadcasting	Fundamentals of Radio 493380	Intermediate Radio 493390	<ol style="list-style-type: none"> 1. Advanced Radio 493400 2. Radio Lab 493410 3. Youth Apprenticeship – T&I: Arts, Audio/Video Technology and Communications 490350
	<p>NOCTI-Employability Skills</p> <ol style="list-style-type: none"> 1. 21st Century Skills for Workforce Success 2. Career Skills (Middle School) 3. Employability Skills 4. Workplace Readiness 5. Workplace Success Skills (Middle School) <p>Career Readiness Certificate Bronze</p> <p>Adobe Certified Associate</p> <ol style="list-style-type: none"> 1. Illustrator 2. InDesign 3. Media Communication – Flash 4. Premiere Pro 5. Rich Media Communication-Flash 6. Photoshop 7. Photoshop (CS3) 8. Photoshop (CS4) 9. Dreamweaver <p>Adobe Certified Expert</p> <ol style="list-style-type: none"> 1. Illustrator 2. InDesign 3. Photoshop 4. Premiere Pro 	<p>Career Readiness Certificate-Silver</p> <p>MCAS-Microsoft Office</p> <ol style="list-style-type: none"> 1. Access 2. Excel 3. Outlook 4. PowerPoint 5. Office <p>Microsoft Office Specialist</p> <ol style="list-style-type: none"> 1. Access 2. Excel 3. Excel Expert 4. Master 5. Outlook 6. PowerPoint 7. Word 8. Word Expert 	<p>NOCTI-Job Ready</p> <ol style="list-style-type: none"> 1. Audio-Video Communications 2. Graphic Production Technology 3. Television Production Visual Communications and Interactive Media Design <p>Career Readiness Certificate-Gold</p>

Cluster: Arts, A/V Technology & Communications
Pathway: Journalism & Broadcasting

Program of Study	Level One	Level Two	Level Three
Television Production	Fundamentals of Television 493420	Intermediate Television 493430	<ol style="list-style-type: none"> 1. Advanced Television 493440 2. Television Lab 493450 3. Youth Apprenticeship – T&I: Arts, Audio/Video Technology and Communications 490350
	Career Readiness Certificate Bronze NOCTI-Employability Skills <ol style="list-style-type: none"> 1. 21st Century Skills for Workforce Success 2. Career Skills (Middle School) 3. Employability Skills 4. Workplace Readiness 5. Workplace Success Skills (Middle School) Adobe Certified Associate <ol style="list-style-type: none"> 1. Illustrator 2. InDesign 3. Media Communication – Flash 4. Premiere Pro 5. Rich Media Communication-Flash 6. Photoshop 7. Photoshop (CS3) 8. Photoshop (CS4) 9. Dreamweaver Adobe Certified Expert <ol style="list-style-type: none"> 10. Illustrator 11. InDesign 12. Photoshop 13. Premiere Pro 	Career Readiness Certificate-Silver MCAS-Microsoft Office <ol style="list-style-type: none"> 1. Access 2. Excel 3. Outlook 4. PowerPoint 5. Office Microsoft Office Specialist <ol style="list-style-type: none"> 1. Access 2. Excel 3. Excel Expert 4. Master 5. Outlook 6. PowerPoint 7. Word 8. Word Expert 	Career Readiness Certificate-Gold NOCTI-Job Ready <ol style="list-style-type: none"> 1. Audio-Video Communications 2. Graphic Production Technology 3. Television Production 4. Visual Communications and Interactive Media Design

Cluster: Arts, A/V Technology & Communications
Pathway: Visual Arts

Program of Study	Level One	Level Two	Level Three
Advertising and Graphic Design	Fundamentals of Advertising and Graphic Design 494150	Intermediate Advertising and Graphic Design 494170	<ol style="list-style-type: none"> 1. Advanced Advertising and Graphic Design 494130 2. Advertising and Graphic Design Lab 494160 3. Youth Apprenticeship – T&I: Arts, Audio/Video Technology and Communications 490350
	Career Readiness Certificate Bronze NOCTI-Employability Skills <ol style="list-style-type: none"> 1. 21st Century Skills for Workforce Success 2. Career Skills (Middle School) 3. Employability Skills 4. Workplace Readiness 5. Workplace Success Skills (Middle School) Adobe Certified Associate <ol style="list-style-type: none"> 1. Illustrator 2. InDesign 3. Media Communication – Flash 4. Premiere Pro 5. Rich Media Communication-Flash 6. Photoshop 7. Photoshop (CS3) 8. Photoshop (CS4) 9. Dreamweaver Adobe Certified Expert <ol style="list-style-type: none"> 10. Illustrator 11. InDesign 12. Photoshop 13. Premiere Pro 	Career Readiness Certificate-Silver MCAS-Microsoft Office <ol style="list-style-type: none"> 1. Access 2. Excel 3. Outlook 4. PowerPoint 5. Office Microsoft Office Specialist <ol style="list-style-type: none"> 1. Access 2. Excel 3. Excel Expert 4. Master 5. Outlook 6. PowerPoint 7. Word 8. Word Expert 	Career Readiness Certificate-Gold NOCTI-Job Ready <ol style="list-style-type: none"> 1. Audio-Video Communications 2. Graphic Production Technology 3. Television Production 4. Visual Communications and Interactive Media Design

Cluster: Arts, A/V Technology & Communications
Pathway: Visual Arts

Program of Study	Level One	Level Two	Level Three
Commercial Photography	Digital Photography I 494350	Digital Photography II 494370	<ol style="list-style-type: none"> 1. Digital Photography III 494380 2. Digital Photography Lab 494360 3. Youth Apprenticeship – T&I: Arts, Audio/Video Technology and Communications 490350
	<p>NOCTI-Employability Skills</p> <ol style="list-style-type: none"> 1. 21st Century Skills for Workforce Success 2. Career Skills (Middle School) 3. Employability Skills 4. Workplace Readiness 5. Workplace Success Skills (Middle School) <p>Career Readiness Certificate Bronze</p> <p>Adobe Certified Associate</p> <ol style="list-style-type: none"> 1. Illustrator 2. InDesign 3. Media Communication – Flash 4. Premiere Pro 5. Rich Media Communication-Flash 6. Photoshop 7. Photoshop (CS3) 8. Photoshop (CS4) 9. Dreamweaver <p>Adobe Certified Expert</p> <ol style="list-style-type: none"> 1. Illustrator 2. InDesign 3. Photoshop 4. Premiere Pro 	<p>Career Readiness Certificate-Silver</p> <p>MCAS-Microsoft Office</p> <ol style="list-style-type: none"> 1. Access 2. Excel 3. Outlook 4. PowerPoint 5. Office <p>Microsoft Office Specialist</p> <ol style="list-style-type: none"> 1. Access 2. Excel 3. Excel Expert 4. Master 5. Outlook 6. PowerPoint 7. Word 8. Word Expert 	<p>NOCTI-Job Ready</p> <ol style="list-style-type: none"> 1. Audio-Video Communications 2. Graphic Production Technology 3. Television Production 4. Visual Communications and Interactive Media Design <p>Career Readiness Certificate-Gold</p>

Cluster: Government & Public Administration
Pathway: National Security

Program of Study	Level One	Level Two	Level Three
Air Force JROTC	Air Force JROTC I 495760	Air Force JROTC II 495770	<ol style="list-style-type: none"> 1. Air Force JROTC III 495780 2. Air Force JROTC IV 495880 3. JROTC Health 480950 4. JRTOC Physical Education 485950

Cluster: Government & Public Administration
Pathway: National Security

Program of Study	Level One	Level Two	Level Three
Army JROTC	Army JROTC I 495790	Army JROTC II 495800	<ol style="list-style-type: none"> 1. Army JROTC III 495810 2. Army JROTC IV 495890 3. JROTC Health 480950 4. JRTOC Physical Education 485950

Cluster: Government & Public Administration
Pathway: National Security

Program of Study	Level One	Level Two	Level Three
Marine JROTC	Marine JROTC I 495820	Marine JROTC II 495830	<ol style="list-style-type: none"> 1. Marine JROTC III 495840 2. Marine JROTC IV 495900 3. JROTC Health 480950 4. JRTOC Physical Education 485950

Cluster: Government & Public Administration
Pathway: National Security

Program of Study	Level One	Level Two	Level Three
Navy JROTC	Navy JROTC I 495850	Navy JROTC II 495860	<ol style="list-style-type: none"> 1. Navy JROTC III 495870 2. Navy JROTC IV 495910 3. JROTC Health 480950 4. JRTOC Physical Education 485950

Cluster: Health Science**Pathway: Therapeutic Services**

Program of Study	Level One	Level Two	Level Three
Medical Professions	Foundations of Health Care 495350	Anatomy/Physiology 424030	<ol style="list-style-type: none">1. Abnormal Psychology 4953702. First Responder 4941403. Human Behavior & Disorders 4953204. Introduction to Medical Professions Expanded 4953805. Medical Lab (1.0) 4905206. Medical Lab (.5) 4905107. Medical Math 4952408. Medical Procedures Expanded 4953909. Medical Terminology 49536010. Pathology 49529011. Pharmacy Technology Fundamentals 49528012. Certified Nursing Assistant (CNA) (.5) 49003013. Certified Nursing Assistant (CNA) (1) 49050014. Youth Apprenticeship – T&I: Health Science 490370

	<p>NOCTI-Employability Skills</p> <ol style="list-style-type: none"> 1. 21st Century Skills for Workforce Success 2. Employability Skills 3. Workplace Readiness <p>Career Readiness Certificate Bronze</p>	<p>Career Readiness Certificate- Silver</p> <p>MCAS-Microsoft Office</p> <ol style="list-style-type: none"> 1. Access 2. Excel 3. Outlook 4. PowerPoint 5. Office <p>Microsoft Office Specialist</p> <ol style="list-style-type: none"> 1. Access 2. Excel 3. Excel Expert 4. Master 5. Outlook 6. PowerPoint 7. Word 8. Word Expert 	<p>NOCTI-Job Ready</p> <ol style="list-style-type: none"> 1. Biotechnology 2. Health Assisting 3. Dental Assisting 4. Home Health Aide 5. Medical Assisting 6. Nursing Assisting 7. Practical Nursing 8. Basic Life Saver <p>CNA Certified Nursing Assistant Emergency Telecommunications Emergency Medical Technician FEMA-CERT First Aid First Aid/CPR/AED First Aid/CPR/AED Instructor Infant & Child CPR Career Readiness Certificate-Gold Pharmacy Technician</p>
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Cluster: Health Science

Pathway: Therapeutic Services

Program of Study	Level One	Level Two	Level Three
Sports Medicine	Foundations of Sports Medicine 494050	Anatomy/Physiology 424030	<ol style="list-style-type: none">1. Sports Medicine Injury Assessment 4940702. First Responder 4941403. Human Behavior & Disorders 4953204. Introduction Medical Professions Expanded 4953805. Medical Math 4952406. Medical Procedures Expanded 4953907. Medical Terminology 4953608. Medical Lab (1.0) 4905209. Medical Lab (.5) 49051010. Pathology 49529011. Certified Nursing Assistant (.5) 49003012. Certified Nursing Assistant (1) 49050013. Pharmacy Technology Fundamentals 49528014. Youth Apprenticeship – T&I: Health Science 490370

	<p>NOCTI-Employability Skills</p> <ol style="list-style-type: none"> 1. 21st Century Skills for Workforce Success 2. Employability Skills 3. Workplace Readiness <p>Career Readiness Certificate-Bronze</p>	<p>Career Readiness Certificate- Silver</p> <p>MCAS-Microsoft Office</p> <ol style="list-style-type: none"> 1. Access 2. Excel 3. Outlook 4. PowerPoint 5. Office <p>Microsoft Office Specialist</p> <ol style="list-style-type: none"> 1. Access 2. Excel 3. Excel Expert 4. Master 5. Outlook 6. PowerPoint 7. Word 8. Word Expert 	<p>NOCTI-Job Ready</p> <ol style="list-style-type: none"> 1. Biotechnology 2. Health Assisting 3. Dental Assisting 4. Home Health Aide 5. Medical Assisting 6. Nursing Assisting 7. Practical Nursing 8. Basic Life Saver Emergency <p>Medical Technician First Aid First Aid/CPR/AED First Aid/CPR/AED Instructor Infant & Child CPR Career Readiness Certificate-Gold</p>
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Cluster: Health Science

Pathway: Therapeutic Services

Program of Study	Level One	Level Two	Level Three
Emergency Preparedness	Emergency Preparedness I 490050	Emergency Preparedness II 490420	<ol style="list-style-type: none"> 1. Emergency Preparedness Lab (.5) 490530 2. Emergency Preparedness Lab (1) 490540 3. Youth Apprenticeship – T&I: Health Science 490370
	NOCTI-Employability Skills <ol style="list-style-type: none"> 1. 21st Century Skills for Workforce Success 2. Employability Skills 3. Workplace Readiness Career Readiness Certificate-Bronze	Career Readiness Certificate-Silver MCAS-Microsoft Office <ol style="list-style-type: none"> 1. Access 2. Excel 3. Outlook 4. PowerPoint 5. Office Microsoft Office Specialist <ol style="list-style-type: none"> 1. Access 2. Excel 3. Excel Expert 4. Master 5. Outlook 6. PowerPoint 7. Word 8. Word Expert 	NOCTI-Job Ready <ol style="list-style-type: none"> 1. Firefighting 2. Medical Assisting Emergency Telecommunications Emergency Medical Technician FEMA-CERT First Aid First Aid/CPR/AED First Aid/CPR/AED Instructor

Cluster: Law, Public Safety, Corrections & Security
Pathway: Law Enforcement Services

Program of Study	Level One	Level Two	Level Three
Criminal Justice	Introduction to Criminal Justice 494620	Foundations of Law Enforcement 494630	<ol style="list-style-type: none"> 1. Crime Scene Investigation 494600 2. Criminal Law 494610 3. First Responder 494140 4. Youth Apprenticeship-T&I: Law, Public Safety, Corrections and Security 490380 5. Youth Apprenticeship-T&I : Government / Public Administration 490360
	NOCTI-Employability Skills <ol style="list-style-type: none"> 1. 21st Century Skills for Workforce Success 2. Employability Skills 3. Workplace Readiness Career Readiness Certificate-Bronze	Career Readiness Certificate-Silver MCAS-Microsoft Office <ol style="list-style-type: none"> 1. Access 2. Excel 3. Outlook 4. PowerPoint 5. Office Microsoft Office Specialist <ol style="list-style-type: none"> 1. Access 2. Excel 3. Excel Expert 4. Master 5. Outlook 6. PowerPoint 7. Word 8. Word Expert 	NOCTI- Job Ready <ol style="list-style-type: none"> 1. Criminal Justice 2. Protective Services Career Readiness Certificate-Gold

Cluster: Manufacturing

Pathway: Maintenance, Installation, and Repair or Production

Program of Study	Level One	Level Two	Level Three
Industrial Equipment Technologies	Industrial Technologies I 495150	Industrial Technologies II 495170	<ol style="list-style-type: none"> 1. Industrial Technologies Lab 495160 2. Electronics I 494800 3. Electronics II 494820 4. Electronics Lab 494810 5. Machine Tool I 495200 6. Machine Tool II 495220 7. Machine Tool Lab 495210 8. Youth Apprenticeship – T&I: Manufacturing 490450
	NOCTI-Employability Skills <ol style="list-style-type: none"> 1. 21st Century Skills for Workforce Success 2. Employability Skills 3. Workplace Readiness Career Readiness Certificate-Bronze	OSHA 10 or OSHA 30 NOCTI-Certificate <ol style="list-style-type: none"> 1. Additive Manufacturing Fundamentals Career Readiness Certificate-Silver MCAS-Microsoft Office <ol style="list-style-type: none"> 1. Access 2. Excel 3. Outlook 4. PowerPoint 5. Office Microsoft Office Specialist <ol style="list-style-type: none"> 1. Access 2. Excel 3. Excel Expert 4. Master 5. Outlook 6. PowerPoint 7. Word 8. Word Expert 	NOCTI-Job Ready <ol style="list-style-type: none"> 1. CAD-Cam 2. Manufacturing Technology 3. Precision Machining 4. Welding NOCTI-Certificate <ol style="list-style-type: none"> 5. Maintenance Awareness 6. Manufacturing Processes and Production 7. Quality Practices and Measurement 8. Safety Autodesk Certified User- Inventor Autodesk Certified User- Revit Career Readiness Certificate-Gold

Cluster: Manufacturing

Pathway: Maintenance, Installation, and Repair or Production

Program of Study	Level One	Level Two	Level Three
Major Appliance Technology	Major Appliance Technology I 495250	Major Appliance Technology II 495270	<ol style="list-style-type: none"> 1. Major Appliance Technology Lab 490080 2. Youth Apprenticeship – T&I: Manufacturing 490450
	NOCTI-Employability Skills <ol style="list-style-type: none"> 1. 21st Century Skills for Workforce Success 2. Employability Skills 3. Workplace Readiness Career Readiness Certificate-Bronze	OSHA 10 or OSHA 30 Career Readiness Certificate-Silver MCAS-Microsoft Office <ol style="list-style-type: none"> 1. Access 2. Excel 3. Outlook 4. PowerPoint 5. Office Microsoft Office Specialist <ol style="list-style-type: none"> 1. Access 2. Excel 3. Excel Expert 4. Master 5. Outlook 6. PowerPoint 7. Word 8. Word Expert 	NOCTI-Certificate <ol style="list-style-type: none"> 1. Maintenance Awareness 2. Manufacturing Processes and Production 3. Quality Practices and Measurement 4. Safety Autodesk Certified User- Inventor Autodesk Certified User- Revit Career Readiness Certificate-Gold

Cluster: Manufacturing

Pathway: Maintenance, Installation, and Repair or Production

Program of Study	Level One	Level Two	Level Three
Electronics	Electronics I 494800	Electronics II 494820	3. Electronics Lab 490080 4. Youth Apprenticeship – T&I: Manufacturing 490450
	NOCTI-Employability Skills 4. 21 st Century Skills for Workforce Success 5. Employability Skills 6. Workplace Readiness Career Readiness Certificate- Bronze	OSHA 10 or OSHA 30 Career Readiness Certificate- Silver MCAS-Microsoft Office 1. Access 2. Excel 3. Outlook 4. PowerPoint 5. Office Microsoft Office Specialist 9. Access 10. Excel 11. Excel Expert 12. Master 13. Outlook 14. PowerPoint 15. Word 16. Word Expert	NOCTI-Certificate 5. Maintenance Awareness 6. Manufacturing Processes and Production 7. Quality Practices and Measurement 8. Safety Autodesk Certified User- Inventor Autodesk Certified User- Revit Career Readiness Certificate-Gold

Cluster: Manufacturing

Pathway: Maintenance, Installation, and Repair or Production

Program of Study	Level One	Level Two	Level Three
Advanced Manufacturing	Introduction to Manufacturing 494940	Design for Manufacturing 494950	<ol style="list-style-type: none"> 1. Manufacturing Production Processes 494960 2. Machine Power and Equipment Systems 494970 3. Youth Apprenticeship – T&I: Manufacturing 490450
	NOCTI-Employability Skills <ol style="list-style-type: none"> 1. 21st Century Skills for Workforce Success 2. Employability Skills 3. Workplace Readiness Career Readiness Certificate- Bronze	OSHA 10 or OSHA 30 NOCTI-Certificate <ol style="list-style-type: none"> 1. Additive Manufacturing Fundamentals Career Readiness Certificate- Silver MCAS-Microsoft Office <ol style="list-style-type: none"> 1. Access 2. Excel 3. Outlook 4. PowerPoint 5. Office Microsoft Office Specialist <ol style="list-style-type: none"> 1. Access 2. Excel 3. Excel Expert 4. Master 5. Outlook 6. PowerPoint 7. Word 8. Word Expert 	NOCTI-Job Ready <ol style="list-style-type: none"> 1. CAD-Cam 2. Manufacturing Technology 3. Precision Machining 4. Welding NOCTI-Certificate <ol style="list-style-type: none"> 5. Maintenance Awareness 6. Manufacturing Processes and Production 7. Quality Practices and Measurement 8. Safety Autodesk Certified User- Inventor Autodesk Certified User- Revit Career Readiness Certificate-Gold

Cluster: Manufacturing

Pathway: Maintenance, Installation, and Repair or Production

Program of Study	Level One	Level Two	Level Three
Precision Machine Manufacturing	Machine Tool I 495200	Machine Tool II 495220	<ol style="list-style-type: none"> 1. Machine Tool Lab 495210 2. Youth Apprenticeship – T&I: Manufacturing 490450
	NOCTI-Employability Skills <ol style="list-style-type: none"> 4. 21st Century Skills for Workforce Success 5. Employability Skills 6. Workplace Readiness Career Readiness Certificate- Bronze	OSHA 10 or OSHA 30 NOCTI-Certificate <ol style="list-style-type: none"> 1. Additive Manufacturing Fundamentals Career Readiness Certificate- Silver MCAS-Microsoft Office <ol style="list-style-type: none"> 1. Access 2. Excel 3. Outlook 4. PowerPoint 5. Office Microsoft Office Specialist <ol style="list-style-type: none"> 9. Access 10. Excel 11. Excel Expert 12. Master 13. Outlook 14. PowerPoint 15. Word 16. Word Expert 	NOCTI-Job Ready <ol style="list-style-type: none"> 9. CAD-Cam 10. Manufacturing Technology 11. Precision Machining 12. Welding NOCTI-Certificate <ol style="list-style-type: none"> 13. Maintenance Awareness 14. Manufacturing Processes and Production 15. Quality Practices and Measurement 16. Safety Autodesk Certified User- Inventor Autodesk Certified User- Revit Career Readiness Certificate-Gold

Cluster: Manufacturing

Pathway: Production

Program of Study	Level One	Level Two	Level Three
Welding	Metal Fabrication 495570	Shielded Metal Arc Welding 495580	<ol style="list-style-type: none"> 1. Gas Metal Arc Welding 495550 2. Gas Tungsten Arc Welding 495560 3. Advanced Shielded Metal Arc Welding 495540 4. Welding Lab 490190 5. Youth Apprenticeship – T&I: Manufacturing 490450
	NOCTI-Employability Skills <ol style="list-style-type: none"> 1. 21st Century Skills for Workforce Success 2. Employability Skills 3. Workplace Readiness Career Readiness Certificate-Bronze	OSHA 10 or OSHA 30 Career Readiness Certificate-Silver MCAS-Microsoft Office <ol style="list-style-type: none"> 1. Access 2. Excel 3. Outlook 4. PowerPoint 5. Office Microsoft Office Specialist <ol style="list-style-type: none"> 1. Access 2. Excel 3. Excel Expert 4. Master 5. Outlook 6. PowerPoint 7. Word 8. Word Expert 	NOCTI-Job Ready <ol style="list-style-type: none"> 1. CAD-Cam 2. Manufacturing Technology 3. Precision Machining 4. Welding NOCTI-Certificate <ol style="list-style-type: none"> 5. Maintenance Awareness 6. Manufacturing Processes and Production 7. Quality Practices and Measurement 8. Safety Autodesk Certified User- Inventor Autodesk Certified User- Revit AWS: American Welding Society Career Readiness Certificate-Gold

Cluster: Transportation, Distribution and Logistics

Pathway: Facility and Mobile Equipment Maintenance

Program of Study	Level One	Level Two	Level Three
Aviation Technology	Aviation I 494250	Aviation II 494260	<ol style="list-style-type: none"> 1. Aviation Lab 490020 2. Youth Apprenticeship – T&I: Transportation, Distribution and Logistics 490560
	NOCTI-Employability Skills <ol style="list-style-type: none"> 1. 21st Century Skills for Workforce Success 2. Employability Skills 3. Workplace Readiness Career Readiness Certificate- Bronze	OSHA 10 or OSHA 30 Career Readiness Certificate- Silver MCAS-Microsoft Office <ol style="list-style-type: none"> 1. Access 2. Excel 3. Outlook 4. PowerPoint 5. Office Microsoft Office Specialist <ol style="list-style-type: none"> 1. Access 2. Excel 3. Excel Expert 4. Master 5. Outlook 6. PowerPoint 7. Word 	Career Readiness Certificate-Gold

Cluster: Transportation, Distribution and Logistics

Pathway: Facility and Mobile Equipment Maintenance

Program of Study	Level One	Level Two	Level Three
Medium/Heavy Truck Technology	Medium/Heavy Brake/Drive Train 494650	Medium/Heavy Electrical Systems/HVAC 494660	<ol style="list-style-type: none"> 1. Medium/Heavy Steering & Suspension/Hydraulics 494230 2. Medium/Heavy Diesel Engines/CAB 494240 3. Medium/Heavy Truck Lab 490090 4. Youth Apprenticeship – T&I: Transportation, Distribution and Logistics 490560
	NOCTI-Employability Skills <ol style="list-style-type: none"> 1. 21st Century Skills for Workforce Success 2. Employability Skills 3. Workplace Readiness Career Readiness Certificate-Bronze	OSHA 10 or OSHA 30 Career Readiness Certificate-Silver MCAS-Microsoft Office <ol style="list-style-type: none"> 1. Access 2. Excel 3. Outlook 4. PowerPoint 5. Office Microsoft Office Specialist <ol style="list-style-type: none"> 1. Access 2. Excel 3. Excel Expert 4. Master 5. Outlook 6. PowerPoint 7. Word 8. Word Expert 	NOCTI- Job Ready <ol style="list-style-type: none"> 1. Diesel Technology 2. Heavy Equipment Maintenance & Repair Career Readiness Certificate-Gold

Cluster: Transportation, Distribution and Logistics

Pathway: Facility and Mobile Equipment Maintenance

Program of Study	Level One	Level Two	Level Three
Power Equipment Technology	Power Equipment Technology I 495400	Power Equipment Technology II 495420	<ol style="list-style-type: none"> 1. Power Equipment Technology Lab 490100 2. Youth Apprenticeship – T&I: Transportation, Distribution and Logistics 490560
	NOCTI-Employability Skills <ol style="list-style-type: none"> 1. 21st Century Skills for Workforce Success 2. Employability Skills 3. Workplace Readiness Career Readiness Certificate-Bronze	OSHA 10 or OSHA 30 Career Readiness Certificate-Silver MCAS-Microsoft Office <ol style="list-style-type: none"> 1.Access 2.Excel 3.Outlook 4.PowerPoint 5.Office Microsoft Office Specialist <ol style="list-style-type: none"> 1. Access 2. Excel 3. Excel Expert 4. Master 5. Outlook 6. PowerPoint 7. Word 8. Word Expert 	NOCTI-Job Ready <ol style="list-style-type: none"> 1. Small Engine Technology Career Readiness Certificate-Gold

Cluster: Transportation, Distribution and Logistics
Pathway: Facility and Mobile Equipment Maintenance

Program of Study	Level One	Level Two	Level Three
Automotive Collision Repair Technology	Non-Structural Analysis/Repair 494300	Painting & Refinishing 494310	<ol style="list-style-type: none"> 1. Damage Analysis, Estimating and Customer Service 494220 2. Structural Analysis/Repair 494320 3. Automotive Collision Lab 490000 4. Youth Apprenticeship – T&I: Transportation, Distribution and Logistics 490560
	NOCTI-Employability Skills <ol style="list-style-type: none"> 1. 21st Century Skills for Workforce Success 2. Employability Skills 3. Workplace Readiness Career Readiness Certificate-Bronze	OSHA 10 or OSHA 30 Career Readiness Certificate-Silver MCAS-Microsoft Office <ol style="list-style-type: none"> 1. Access 2. Excel 3. Outlook 4. PowerPoint 5. Office Microsoft Office Specialist <ol style="list-style-type: none"> 1. Access 2. Excel 3. Excel Expert 4. Master 5. Outlook 6. PowerPoint 7. Word 8. Word Expert 	NOCTI- Job Ready <ol style="list-style-type: none"> 1. Collision Repair 2. Collision Repair & Refinishing Technology Automotive Service Excellence: <ol style="list-style-type: none"> 1. Collision Repair and Refinish Non-Structural & Damage Repair 2. Collision Repair and Refinish Painting and Refinishing Career Readiness Certificate-Gold

Cluster: Transportation, Distribution and Logistics
Pathway: Facility and Mobile Equipment Maintenance

Program of Study	Level One	Level Two	Level Three
Automotive Service Technology	Brakes/Manual Drive Train 494180	Automotive Electrical Systems/HVAC 494190	<ol style="list-style-type: none"> 1. Engine Performance /Engine Repair 494200 2. Suspension & Steering/Automatic Transmission 494210 3. Automotive Service Lab 490010 4. Youth Apprenticeship – T&I: Transportation, Distribution and Logistics 490560
	NOCTI-Employability Skills <ol style="list-style-type: none"> 1. 21st Century Skills for Workforce Success 2. Employability Skills 3. Workplace Readiness Career Readiness Certificate-Bronze Automotive Service Excellence: <ol style="list-style-type: none"> 1. Automobile Brakes 2. Automobile Manual Drive Train & Axels 	OSHA 10 or OSHA 30 Automotive Service Excellence: <ol style="list-style-type: none"> 1. Automobile Electrical / Electronic Systems 2. Automobile Heating & Air Conditioning NOCTI-Job Ready <ol style="list-style-type: none"> 1. Automotive Technician-Core Career Readiness Certificate-Silver S/P2 Automotive MCAS- Microsoft Office <ol style="list-style-type: none"> 1. Access 2. Excel 3. Outlook 4. PowerPoint 5. Office Microsoft Office Specialist <ol style="list-style-type: none"> 1. Access 2. Excel 3. Excel Expert 4. Master 5. Outlook 6. PowerPoint 7. Word 8. Word Expert 	NOCTI-Job Ready <ol style="list-style-type: none"> 1. Automotive Technician-Advanced Automotive Service Excellence: <ol style="list-style-type: none"> 3. Automobile Automatic Transmission 4. Automobile Engine Performance 5. Automobile Engine Repair 6. Automobile G-1 7. Automobile Maintenance & Light Repair 8. Automobile Suspension and Steering Career Readiness Certificate-Gold