

**Provisional Licensing Requirements for  
Career and Technical Education  
Effective July 1, 2010**

Area	Requirements																								
<b>Trade and Industrial Education</b>  <u>Based on a bachelor's degree</u>  740	<p><b><u>Eligibility Requirements:</u></b></p> <p><b><u>Degree</u></b> Bachelor's Degree in area of license</p> <p><b><u>Work Experience</u></b></p> <ul style="list-style-type: none"> <li>◆ Two years industry-related work experience within the past five years</li> <li>◆ For examples of work experience, refer to the Trade and Industrial Education Licensure Related Degree, Industry-Related Work Experience, and Required Credential Matrix for examples for specific Trade and Industrial Licensure areas.</li> </ul> <p><b><u>Credentials</u></b></p> <p><b><u>For required credentials</u></b>, refer to the Trade and Industrial Education Licensure Related Degree, Industry-Related Work Experience, and Required Credential Matrix for credentials that are required for licensure or to teach specific courses. Credential is required before teaching unless otherwise noted. <b><u>Credential Certificate/Documentation must be submitted to NCDPI</u></b></p> <p><b><u>Clearing specific requirements:</u></b></p> <p><b>Coursework</b> A total of 21 semester hours of coursework with a <b>minimum</b> of 6 semester hours per school year is required (or the total number if fewer than six) to continue in this position. <b>courses:</b> <i>Note: Coursework can be completed at either a four-year college/university or community college.</i></p> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: center;">University/Four-Year College Course Title/Content</th> <th style="text-align: center;">OR</th> <th style="text-align: center;">Community College Course Title/Content</th> </tr> </thead> <tbody> <tr> <td>Curriculum, Instructional Planning and Assessments in Trade and Industrial Education</td> <td style="text-align: center;">OR</td> <td>Introduction to Trade and Industrial Education</td> </tr> <tr> <td>Instructional Methods in Trade and Industrial Education</td> <td style="text-align: center;">OR</td> <td>Instructional Methods</td> </tr> <tr> <td>Reading in the Content Area</td> <td style="text-align: center;">OR</td> <td>Reading and Writing Methods</td> </tr> <tr> <td>Teaching Diverse Learners Or Special Populations</td> <td style="text-align: center;">OR</td> <td>Special Populations</td> </tr> <tr> <td>Classroom Management of Learning Theory</td> <td style="text-align: center;">OR</td> <td>General Psychology</td> </tr> <tr> <td>Environmental Safety and Health</td> <td style="text-align: center;">OR</td> <td>Environmental Safety and Health</td> </tr> <tr> <td>Career and Technical Student Organization</td> <td style="text-align: center;">OR</td> <td>Career and Technical Student Organization</td> </tr> </tbody> </table> <p><b><u>Induction</u></b> The 40-hour Trade and Industrial Education New Teacher Induction Program approved by the North Carolina Department of Public Instruction, Division of Career and Technical Education is required.</p>	University/Four-Year College Course Title/Content	OR	Community College Course Title/Content	Curriculum, Instructional Planning and Assessments in Trade and Industrial Education	OR	Introduction to Trade and Industrial Education	Instructional Methods in Trade and Industrial Education	OR	Instructional Methods	Reading in the Content Area	OR	Reading and Writing Methods	Teaching Diverse Learners Or Special Populations	OR	Special Populations	Classroom Management of Learning Theory	OR	General Psychology	Environmental Safety and Health	OR	Environmental Safety and Health	Career and Technical Student Organization	OR	Career and Technical Student Organization
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**Trade and Industrial Education Licensure  
Related Degree, Industry-Related  
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<b>T&amp;I Licensure Area</b>	<b>Examples of Related Degrees</b>	<b>Examples of Industry-Related Work Experience</b>	<b>Required Industry Credential (Before teaching unless noted).</b>
<b>74010 Collision Repair</b>	<ul style="list-style-type: none"> <li>• Automotive Technology - Collision Repair and Insurance Management</li> <li>• Collision Repair and Refinishing Technology</li> <li>• Auto Collision Technology</li> <li>• Industrial Technology - Auto Collision Repair</li> <li>• Auto Body Repair</li> <li>• Automotive or Mechanical Engineering</li> </ul>	<ul style="list-style-type: none"> <li>• Work in the collision repair</li> <li>• Work in Auto painting and refinishing</li> <li>• Automotive glass repair and installation</li> <li>• Auto Insurance Estimators</li> <li>• Auto Detailing</li> <li>• Auto Metalworker</li> <li>• Auto Welding</li> <li>• Auto Electronics</li> <li>• Air Condition repair</li> <li>• Collision repair equipment and paint sells</li> </ul>	None
<b>74015 Automotive Services</b>	<ul style="list-style-type: none"> <li>• Automotive Systems Technology</li> <li>• Transportation Systems Technology</li> <li>• Logistics</li> <li>• Automotive or Mechanical Engineering</li> </ul>	<ul style="list-style-type: none"> <li>• Automotive repair and service</li> <li>• Automotive Parts and service</li> <li>• Automotive Service equipment sales and service</li> </ul>	ASE Brakes and Electrical

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74020 Cabinetmaking/ Furniture	<ul style="list-style-type: none"> <li>• Construction &amp; Cabinetmaking Technology</li> <li>• Building Construction/ Cabinetmaking Technology</li> <li>• Cabinetmaking and Millwork + Millwright</li> <li>• Construction, Design &amp; Manufacturing   Cabinetmaking &amp; Mill-Work</li> </ul>	<ul style="list-style-type: none"> <li>• Cabinetmaking and Furniture manufacturing</li> <li>• Woodworking</li> <li>• Construction with demonstrated experience in cabinetmaking</li> </ul>	
74025 Carpentry	<ul style="list-style-type: none"> <li>• Carpentry</li> <li>• Construction Management</li> <li>• Building Construction</li> </ul>	<ul style="list-style-type: none"> <li>• Construction industry with demonstrated experience in the carpentry field.</li> </ul>	<ul style="list-style-type: none"> <li>• NCCER ICTP Credential AND</li> <li>• OSHA 10-Hour Construction Safety Required before end of first semester.</li> </ul>
74030 Cosmetology	<ul style="list-style-type: none"> <li>• Cosmetology Technology</li> </ul>	<ul style="list-style-type: none"> <li>• Work in the cosmetology field with direct work on clients.</li> </ul>	Cosmetic Art Board Certified Instructor
74035 Electrical Trades	<ul style="list-style-type: none"> <li>• Electrician</li> <li>• Construction Management</li> </ul>	<ul style="list-style-type: none"> <li>• Construction industry with demonstrated experience in the electrical trades' field.</li> </ul>	<ul style="list-style-type: none"> <li>• NCCER ICTP Credential AND</li> <li>• OSHA 10-Hour Construction Safety Required before end of first semester.</li> </ul>
74040 Electronics	<ul style="list-style-type: none"> <li>• Electronics Engineering Technology</li> <li>• Electronics Engineering</li> <li>• Digital Electronics</li> </ul>	<ul style="list-style-type: none"> <li>• Electronics industry with demonstrated experience in troubleshooting and repairing electronics components.</li> <li>• Any industry with demonstrated experience in troubleshooting and repairing electronics components.</li> </ul>	<ul style="list-style-type: none"> <li>Electronics Technicians Association</li> <li>• (ETA – aCET)</li> </ul>

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74045 Printing Graphics	<ul style="list-style-type: none"> <li>• Printing Graphics</li> <li>• Communications – Graphic Arts/Print</li> <li>• Graphic Design</li> <li>• Graphics and Printing</li> </ul>	<ul style="list-style-type: none"> <li>• Printing industry with demonstrated experience in the design, layout, creation, production, and troubleshooting of printing graphic products.</li> </ul>	
74050 Electro-mechanical Maintenance	<ul style="list-style-type: none"> <li>• Electromechanical Maintenance Technology</li> </ul>	<ul style="list-style-type: none"> <li>• Work as part of the production team in electrical and mechanical maintenance.</li> <li>• Demonstrated work in mechanical theory, hydraulics, pneumatics, electrical, and electronic devices and controls.</li> </ul>	
74055 Masonry	<ul style="list-style-type: none"> <li>• Masonry</li> <li>• Masonry Installer</li> </ul>	<ul style="list-style-type: none"> <li>• Construction industry with demonstrated experience in the masonry field.</li> </ul>	<ul style="list-style-type: none"> <li>• NCCER ICTP Credential AND</li> <li>• OSHA 10-Hour Construction Safety Required before end of first semester.</li> </ul>
74060 Mechanical Systems (HVAC or Plumbing)	<ul style="list-style-type: none"> <li>• HVAC</li> <li>• Mechanical Engineering</li> <li>• Industrial Engineering</li> <li>• Plumbing</li> </ul>	<ul style="list-style-type: none"> <li>• Work in the Heating, Ventilation, and Air Condition field with demonstrated task that include installation, troubleshooting, and repair of HVAC systems.</li> <li>• Work in the Plumbing Industry with demonstrated task that include installation, troubleshooting, and repair of plumbing systems.</li> </ul>	<ul style="list-style-type: none"> <li>• NCCER ICTP Credential AND</li> <li>• OSHA 10-Hour Construction Safety Required before end of first semester.</li> </ul>

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T&I Licensure Area	Examples of Related Degrees	Examples of Industry-Related Work Experience	Required Industry Credential (Before teaching unless noted).
74065 Metals Manufacturing	<ul style="list-style-type: none"> <li>• Metals Manufacturing</li> <li>• Precision Machining</li> </ul>	<ul style="list-style-type: none"> <li>• Machinist work</li> <li>• Metals cutting</li> <li>• Mechanical Engineering with demonstrated performance of metals machining task.</li> </ul> <p>Tool and Die</p>	
74070 Drafting	<ul style="list-style-type: none"> <li>• Mechanical Engineering</li> <li>• Drafting</li> <li>• CAD</li> <li>• Architectural Drafting</li> <li>• Engineering Drafting</li> </ul>	<ul style="list-style-type: none"> <li>• Construction industry with demonstrated experience in the drafting field.</li> <li>• Draftsman</li> <li>• CAD designer</li> <li>• Architect</li> </ul>	
74080 Welding	<ul style="list-style-type: none"> <li>• Welding Engineering</li> <li>• Welding Technology</li> </ul>	<ul style="list-style-type: none"> <li>• Construction industry with demonstrated experience in the welding field.</li> </ul>	
74085 Work Development (formerly Industrial Coop Ed)	<ul style="list-style-type: none"> <li>• BS degree in T&amp;I area required</li> </ul>	<ul style="list-style-type: none"> <li>• Work experience should be aligned with degreed area of T&amp;I.</li> </ul>	
74095 Specialized (for new innovative programs)	<ul style="list-style-type: none"> <li>• Degree must be related to the specialty area being taught.</li> </ul>	<ul style="list-style-type: none"> <li>• Work in industry associated with the specialty area with demonstrated experience associated with the defined specialty field.</li> </ul>	

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**Provisional Licensing Requirements for  
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T&I Licensure Area	Examples of Related Degrees	Examples of Industry-Related Work Experience	Required Industry Credential (Before teaching unless noted).
74096 Computer Engineering Technology	<ul style="list-style-type: none"> <li>• Computer Engineering</li> <li>• Hardware designer</li> <li>• Electronic Engineering</li> <li>• Software Engineer</li> <li>• Information Technology</li> <li>• Network Engineering</li> </ul>	<ul style="list-style-type: none"> <li>• Computer Repair</li> <li>• Computer sales &amp; service</li> <li>• Electronic Engineering technician</li> <li>• Computer Engineering technician</li> <li>• Network Engineering</li> <li>• Network Engineering technician</li> <li>• Information Technology technician</li> <li>• Information Technology Service Desk</li> <li>• Help Desk Technician</li> </ul>	<ul style="list-style-type: none"> <li>• COMPTIA A+ - Required within 3 years.</li> </ul> <p><b>OR</b></p> <ul style="list-style-type: none"> <li>• If not CompTIA A+ Certified, completion of COMPTIA A+ coursework that covers both the hardware and the operating system objectives prior to teaching the course and obtain the CompTia A+ Certification prior to clearing the license.</li> </ul>
74097 Network Engineering Technology	<ul style="list-style-type: none"> <li>• Network Engineering</li> <li>• Computer Engineering</li> <li>• Hardware Designer</li> <li>• Electronic Engineering</li> <li>• Software Engineer</li> <li>• Information Technology</li> </ul>	<ul style="list-style-type: none"> <li>• Network Engineering</li> <li>• Network Engineering technician</li> <li>• Computer Repair</li> <li>• Computer sales &amp; service</li> <li>• Electronic Engineering technician</li> <li>• Computer Engineering technician</li> </ul>	<ul style="list-style-type: none"> <li>• CISCO CCENT – Required within 3 years.</li> </ul> <p><b>OR</b></p> <ul style="list-style-type: none"> <li>• If not CISCO CCENT certified, Must have taken a course on Networking to cover both hardware and software prior to teaching the class and obtain the CISCO CCENT Certification prior to clearing the license.</li> </ul>

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T&I Licensure Area	Examples of Related Degrees	Examples of Industry-Related Work Experience	Required Industry Credential (Before teaching unless noted).
74096 Computer Engineering Technology	<ul style="list-style-type: none"> <li>• Computer Engineering</li> <li>• Hardware designer</li> <li>• Electronic Engineering</li> <li>• Software Engineer</li> <li>• Information Technology</li> <li>• Network Engineering</li> </ul>	<ul style="list-style-type: none"> <li>• Computer Repair</li> <li>• Computer sales &amp; service</li> <li>• Electronic Engineering technician</li> <li>• Computer Engineering technician</li> <li>• Network Engineering</li> <li>• Network Engineering technician</li> <li>• Information Technology technician</li> <li>• Information Technology Service Desk</li> <li>• Help Desk Technician</li> </ul>	<ul style="list-style-type: none"> <li>• COMPTIA A+ - Required within 3 years.</li> <li><b>OR</b></li> <li>• If not CompTIA A+ Certified, completion of COMPTIA A+ coursework that covers both the hardware and the operating system objectives prior to teaching the course and obtain the CompTia A+ Certification prior to clearing the license.</li> </ul>
74097 Network Engineering Technology	<ul style="list-style-type: none"> <li>• Network Engineering</li> <li>• Computer Engineering</li> <li>• Hardware Designer</li> <li>• Electronic Engineering</li> <li>• Software Engineer</li> <li>• Information Technology</li> </ul>	<ul style="list-style-type: none"> <li>• Network Engineering</li> <li>• Network Engineering technician</li> <li>• Computer Repair</li> <li>• Computer sales &amp; service</li> <li>• Electronic Engineering technician</li> <li>• Computer Engineering technician</li> </ul>	<ul style="list-style-type: none"> <li>• CISCO CCENT – Required within 3 years.</li> <li><b>OR</b></li> <li>• If not CISCO CCENT certified, Must have taken a course on Networking to cover both hardware and software prior to teaching the class and obtain the CISCO CCENT Certification prior to clearing the license.</li> </ul>

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T&I Licensure Area	Examples of Related Degrees	Examples of Industry-Related Work Experience	Required Industry Credential (Before teaching unless noted).
74098 Digital Media	<ul style="list-style-type: none"> <li>• Audio/recording Arts</li> <li>• Audio Recording Engineering</li> <li>• Audio/Video Production</li> <li>• Communications</li> <li>• Computer Animation</li> <li>• Digital Animation</li> <li>• Digital Production</li> <li>• Filmmaking/Editing</li> <li>• Film/Video</li> <li>• Game Art &amp; Design</li> <li>• Graphic Arts</li> <li>• Graphic Communications</li> <li>• Graphic Design</li> <li>• Instructional Technology</li> <li>• Media Arts</li> <li>• Multimedia</li> <li>• Photography</li> <li>• Recording Arts</li> <li>• Sound/Audio Engineering</li> <li>• Television Broadcasting</li> <li>• Visual Communications</li> <li>• Web Design</li> </ul>	<ul style="list-style-type: none"> <li>• Broadcasting Industry – Television or Radio</li> <li>• Printing Industry</li> <li>• Film Industry</li> <li>• Photography Industry</li> <li>• Internet Production Industry to include Web Design</li> <li>• Instructional Technology – Working with teacher/instructors to implement digital media project in the classroom or school system.</li> </ul>	40 hr NCDPI Digital Media Endorsement course

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T&I Licensure Area	Examples of Related Degrees	Examples of Industry-Related Work Experience	Required Industry Credential (Before teaching unless noted).
74099 Public Safety	<ul style="list-style-type: none"> <li>• Fire Science</li> <li>• Law Enforcement</li> <li>• EMS Management</li> <li>• Paramedic to RN</li> <li>• Environmental Management</li> <li>• Public Personnel Management</li> <li>• Leadership / Disaster Preparedness and Crisis Management</li> <li>• Critical Incident Management</li> <li>• Executive Fire Service Leadership</li> <li>• Public Safety Administration</li> <li>• Homeland Security</li> <li>• Justice of Homeland Security</li> <li>• Public Personnel Management</li> <li>• Leadership / in Disaster Preparedness and Crisis Management</li> <li>• Paralegals and Legal Assistants</li> <li>• Criminal Psychologist</li> <li>• Corrections and Jailers</li> <li>• Forensic</li> <li>• Police Officers</li> <li>• Criminal Justice</li> </ul>	<ul style="list-style-type: none"> <li>• Introduction to Public Safety, any area of public safety is acceptable (fire, law, medical, emergency management).</li> <li>• Fire Fighting Technology I, II, or III, experience as a fire personnel (Volunteer fire personnel are counted as full time fire personnel because they must meet the same requirements for continuing education and a must maintain a certain level of fire calls attended as does the paid fire personnel to continue as a volunteer for that particular fire station). Also, the teacher must be certified by the OSFM as a Fire Fighter II for a minimum of five years and must obtain their full "Qualified" Level Two Fire Instructor Credential through the OSFM.</li> <li>• Law Enforcement I, II, or III, experience as a law enforcement office in any agency in the field of law enforcement.</li> </ul>	<p>To teach Fire Fighter Technology, the following Credentials are required:</p> <ul style="list-style-type: none"> <li>• NC Fire Fighter II</li> <li>• NC Fire Fighter II Instructor</li> </ul>

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<b>74098 Licensure Requirements Digital Media Courses (7935 &amp; 7936)</b>	
Requirements which must be met prior to applying for the 74098 Digital Media License.	
Already Licensed In	Requirements which must be met <u>prior</u> to applying for the 74098 Digital Media License.
74045 Printing Graphics (Current Clear License)	Applicants <b>must</b> complete a 40 hour workshop on Digital Media endorsed by NCDPI. <b>Non-Teaching work experience for the above areas is relevant and transferable</b>
74095 Specialized (with a clear license and a digital media background)	Applicants <b>must</b> complete a 40 hour workshop on Digital Media endorsed by NCDPI. <b>Non-Teaching work experience for the above areas is relevant and transferable</b>
760 Business and Information Technology (Current Clear License)	Applicants <b>must</b> complete a 40 hour workshop on Digital Media endorsed by NCDPI and, 9 Semester hours of related coursework (prior to applying for licenses) i.e. <ul style="list-style-type: none"> <li>- Animation</li> <li>- Computer Digital Input Systems</li> <li>- E-Commerce</li> <li>- Graphic Communication</li> <li>- Multimedia Production</li> <li>- Photography</li> <li>- Web Design</li> </ul> <b>Related Work Experience – Not Required</b>
820 Technology Education (Current Clear License)	Applicants <b>must</b> complete a 40 hour workshop on Digital Media endorsed by NCDPI and, 9 Semester hours of related coursework (prior to applying for licenses) i.e. <ul style="list-style-type: none"> <li>- Animation</li> <li>- Computer Digital Input Systems</li> <li>- E-Commerce</li> <li>- Graphic Communication</li> <li>- Multimedia Production</li> <li>- Photography</li> <li>- Web Design</li> </ul> <b>Related Work Experience – Not Required</b>

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Specific Trade and Industrial Education Areas to Existing License**

Already Licensed In	Area to be Added	Requirements
820 Technology Education <sup>1*</sup> * Please see Footnote (current clear license)	74070 – Drafting	<b>Course requirements:</b> 15 Semester hours of concentration in drafting (i.e. drafting, mechanical drawing, computer aided design, etc) <b>Clearing course requirements:</b> Three years with at least 6 semester hours per school year. <b>Related Work Experience – Not Required</b>
820 Technology Education <sup>1*</sup> * Please see Footnote (current clear license)	74040 – Electronics	<b>Course requirements</b> 15 Semester hours of concentration in electronics.(i.e. electronics technology, digital electronics, Analog Electronics, semiconductor theory and devices, DC/AC electricity) <b>Clearing course requirements:</b> Three years with at least 6 semester hours per school year. <b>Related Work Experience – Not Required</b>
820 Technology Education <sup>1*</sup> * Please see Footnote (current clear license)	74020 – Cabinetmaking / Furniture	<b>Course requirements</b> 15 Semester hours of concentration in furniture and/or cabinet making (i.e. wood technology, cabinet making, mechanical drafting, furniture design and construction) <b>Clearing course requirements:</b> Three years with at least 6 semester hours per school year. <b>Related Work Experience – Not Required</b>
820 Technology Education <sup>1*</sup> * Please see Footnote (current clear license)	74025 – Carpentry	<b>Course requirements</b> 15 Semester hours of concentration in carpentry or construction (i.e. architectural drafting, construction management, structural systems, construction estimating, planning and scheduling, framing) <b>Clearing course requirements:</b> Three years with at least 6 semester hours per school year. <b>Related Work Experience – Not Required</b>
<b><i>1. Non-Teaching work experience is relevant and transferable.</i></b>		

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Specific Trade and Industrial Education Areas to Existing License**

Already Licensed In	Area to be Added	Requirements
74040 Electronics <sup>1*</sup> <i>* Please see Footnote</i>	74096 Computer Engineering Technology  <b><u>Issued for 3 years</u></b>	<b><u>Option 1</u></b> COMPTIA A+ Certification (no additional requirements)
74097 Network Engineering Technology <sup>1*</sup> <i>* Please see Footnote</i>		OR
820 Technology Education <sup>1*</sup> <i>* Please see Footnote</i>		<b><u>Option 2 (for provisional license)</u></b> Completion of COMPTIA A+ <u>coursework</u> that covers both the hardware and the operating system objectives( <u>prior to being issued license</u> )
760 Business and Information Technology <sup>1*</sup> <i>* Please see Footnote</i>		<b>And</b> Obtain COMPTIA A+ <u>certification prior to clearing the license.</u>  <b>Note:</b> There is not a prerequisite required prior to sitting for COMPTIA A+ certification test, but if the teacher does not have the certification, they are required to take a certification course to obtain a provisional license.
<i>Non-Teaching work experience is relevant and transferable.</i>		<b>Related Work Experience – Not Required</b>

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Already Licensed In	Area to be Added	Requirements
74040 Electronics <sup>1*</sup> <small>* Please see Footnote</small>	74097 Network Engineering Technology  <u>Issued for 2 years</u>	<u>Option 1 (no additional requirements)</u> NET+ OR Cisco CCENT OR Cisco CCNA. Certified prior to teaching the course (no additional requirements)  OR  <u>Option 2</u> Must have taken a course on Networking to cover both hardware and software (prior to being issued license) <b>AND</b> Obtain their certification <u>prior to clearing the license</u>  <b>Related Work Experience – Not Required</b>
74096 Computer Engineering Technology <sup>1*</sup> <small>* Please see Footnote</small>		
820 Technology Education <sup>1*</sup> <small>* Please see Footnote</small>		
760 Business and Information Technology <sup>1*</sup> <small>* Please see Footnote</small>		
<b>1. Non-Teaching work experience is relevant and transferable.</b>		

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