### EMPLOYABILITY PROFILE

**HVAC**  
**ST. LAWRENCE-LEWIS BOCES**  
40 West Main Street  
Canton, NY 13617

<table>
<thead>
<tr>
<th>Student:</th>
<th>Rating Scale</th>
</tr>
</thead>
<tbody>
<tr>
<td>Academic Year: 2017-2018</td>
<td>T - Theory/Minimal Exposure</td>
</tr>
<tr>
<td>Home District:</td>
<td>1 - Unsatisfactory</td>
</tr>
</tbody>
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<table>
<thead>
<tr>
<th>Attendance</th>
<th>Punctuality</th>
<th>Takes Responsibility for Learning</th>
</tr>
</thead>
<tbody>
<tr>
<td>Understands work expectations for attendance and adheres to them. Notifies supervisor in advance in case of absence.</td>
<td>Understands work expectations for punctuality. Arrives on time for work, takes and returns from breaks on time and calls supervisor prior to being late.</td>
<td>Identifies one's strengths and weaknesses. Sets goals for learning. Identifies and pursues opportunities for learning. Monitors one's progress toward achieving these goals.</td>
</tr>
</tbody>
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<table>
<thead>
<tr>
<th>Communication Skills</th>
<th>Quality of Work</th>
<th>Technology</th>
</tr>
</thead>
<tbody>
<tr>
<td>Gives full attention to what other people are saying, asks questions as appropriate and understands what was heard. Communicates concerns clearly and asks for assistance when needed.</td>
<td>Gives best effort, evaluates own work and utilizes feedback to improve work performance. Strives to meet quality standards and provides optional customer service.</td>
<td>Uses job-related tools, technologies and materials appropriately.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Collaboration / Communication</th>
<th>Research &amp; Information Fluency</th>
<th>Workplace Appearance</th>
</tr>
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<tbody>
<tr>
<td>Interacts and communicates with others in a friendly and courteous way. Shows respect for others' ideas, opinions and racial and cultural diversity. Effectively works as a member of a team.</td>
<td>Apply varied research skills to find and evaluate resources. Use information and resources to accomplish real-world tasks.</td>
<td>Dresses appropriately for the position and duties. Practices personal hygiene appropriate for position and duties.</td>
</tr>
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<thead>
<tr>
<th>Creativity &amp; Innovation</th>
<th>Health &amp; Safety</th>
<th>Safety</th>
</tr>
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<tbody>
<tr>
<td>Apply critical thinking, research methods, and communication tools to create original work. Collaborate effectively with an audience beyond the classroom to create original work.</td>
<td>Complies with health and safety rules for specific workplace.</td>
<td>General safety practices</td>
</tr>
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<thead>
<tr>
<th>Knowledge of Workplace</th>
<th>Solves Problems Using Math</th>
<th>Theory of Heat</th>
</tr>
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<tbody>
<tr>
<td>Demonstrates understanding of workplace policy and ethics.</td>
<td>Works with mathematical information (numbers, symbols, etc.) procedures, and tools and applies skills to answer a question, solve a problem, verify the reasonableness of results, make a prediction or carry out a task that has mathematical dimensions.</td>
<td>Introductions to different types of heat</td>
</tr>
</tbody>
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<thead>
<tr>
<th>Observes Critically</th>
<th>Takes Initiative</th>
<th>Refrigeration Process</th>
</tr>
</thead>
<tbody>
<tr>
<td>Carefully attends to visual sources of information. Evaluates the information for accuracy, bias and usefulness. Develops a clear understanding of the information.</td>
<td>Participates fully in task for project from initiation to completion. Initiates interactions with supervisor for the next task upon completion of previous one.</td>
<td>Evaporators</td>
</tr>
</tbody>
</table>

| Problem Solving & Critical Thinking | |
|------------------------------------| |
| Identifies the nature of the problem, evaluates various ways of solving the problem and selects the best strategy. | |

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<td>4 - Exceeds Expectations</td>
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<thead>
<tr>
<th><strong>Electricity</strong></th>
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<tbody>
<tr>
<td>Structure of matter</td>
</tr>
<tr>
<td>Ohm's Law</td>
</tr>
<tr>
<td>Use of magnetism in generating power</td>
</tr>
<tr>
<td>Circuit safety protection</td>
</tr>
<tr>
<td>Basic wiring of circuits</td>
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<tr>
<th><strong>Refrigeration Management</strong></th>
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<tbody>
<tr>
<td>Refrigerant chemistry and applications</td>
</tr>
<tr>
<td>Refrigerant oils and their applications</td>
</tr>
<tr>
<td>Ozone depletion</td>
</tr>
<tr>
<td>Montreal protocol</td>
</tr>
<tr>
<td>Legislation and regulations</td>
</tr>
<tr>
<td>Recovery, recycling and reclaiming</td>
</tr>
<tr>
<td>Containers - safe handling and transport of refrigerants</td>
</tr>
<tr>
<td>Servicing and testing</td>
</tr>
<tr>
<td>High pressure and low-pressure industrial/commercial chillers</td>
</tr>
<tr>
<td>Review of technical certification test (EPA exam)</td>
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<tr>
<th><strong>Electric Motors</strong></th>
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<tbody>
<tr>
<td>Identifying types of electric motors</td>
</tr>
<tr>
<td>Application of electric motors</td>
</tr>
<tr>
<td>Motor controls</td>
</tr>
<tr>
<td>Troubleshooting with electric motors</td>
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<th><strong>Heat and Humidification</strong></th>
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<tr>
<td>Gas heat</td>
</tr>
<tr>
<td>Oil heat</td>
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<tr>
<td>Hydronic heat</td>
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<tr>
<td>Alternative heat</td>
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<th><strong>Domestic Applications</strong></th>
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<tbody>
<tr>
<td>Residential refrigerators</td>
</tr>
<tr>
<td>Residential freezers</td>
</tr>
<tr>
<td>Window air conditioning</td>
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<th><strong>Air Conditioning</strong></th>
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<tbody>
<tr>
<td>Refrigeration applied to air conditioning</td>
</tr>
<tr>
<td>Air distribution and balance</td>
</tr>
<tr>
<td>Installation of split systems</td>
</tr>
<tr>
<td>System controls</td>
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<tr>
<td>Humidification and air filtration</td>
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<tr>
<td>Heat pump</td>
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<th><strong>Career Planning</strong></th>
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<tbody>
<tr>
<td>Preparation and participation</td>
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Signature of Reviewer: ___________________________

Print Name: ___________________________

Title: ___________________________

Review Date: ___________________________