**Industry-Based Skill Standards**Proficiency Definitions

NA = Not Applicable 1 = Developing 2 = Basic 3 = Proficient 4 = Mastery

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|  | 9th | 10th | 11th | 12th |  | 9th | 10th | 11th | 12th |
| **Safety** |  |  |  |  | **Professionalism** |  |  |  |  |
| Demonstrate and understand workplace policy and safety rules | | | | | Act and dress in a professional matter which includes the use of cell phones while in class | | | | |
| **Material Handling** |  |  |  |  | **Motor Controls** |  |  |  |  |
| Calculate the correct amount of material needed for projects given  and choose the precise fastener to complete the job | | | | | Distinguish electric motor sizes and the common controls used to operate them | | | | |
| **Tool Identification and Usage** |  |  |  |  | **Control Devices** |  |  |  |  |
| Determine the appropriate tools needed to accomplish the assignment, and show proper use of that tool | | | | | Explain the use and function of Control Devices use in the industry | | | | |
| **Circuits** |  |  |  |  | **Systems** |  |  |  |  |
| Construct an electrical wiring circuit, summarize how it works and distinguish the proper devices needed to produce an accurate operating circuit | | | | | Summarize each HVAC/R component and explain their function in the system | | | | |
| **Pipe Bending** |  |  |  |  | **Refrigeration** |  |  |  |  |
| Demonstrate the correct use of the pipe bender and construct a number of job related bends | | | | | Demonstrate the proper equipment needed to recover and show a successful refrigeration recovery | | | | |
| **Pipe Cutting and Threading** |  |  |  |  | **Recharging** |  |  |  |  |
| Demonstrate and apply the proper tools used to cut, bend, and thread different types of piping | | | | | Demonstrate the proper equipment needed and display a successful  refrigeration leak detention and recharging procedure | | | | |
| **Pipe Joining** |  |  |  |  | **Clean Energy Storage** |  |  |  |  |
| Apply knowledge and explain the process of joining pipe together using either methods | | | | | Demonstrates understanding of the different types of energy storage technologies, such as batteries, flywheels, pumped hydro, compressed air, thermal storage, and hydrogen. | | | | |
| **Wire a Service Panel** |  |  |  |  | **Scientific Principles** |  |  |  |  |
| Apply their knowledge and skills to successfully wire a neat and accurate service panel | | | | | Apply knowledge to scientific principles and concepts, data collection and trend analysis | | | | |
| **CAD** |  |  |  |  |  |  |  |  |  |
| Able to develop two dimensional drawings with AutoCAD | | | | |  | | | | |

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| --- | --- | --- | --- | --- | --- | --- | --- |
| **WORK-BASED LEARNING** |  |  | **POSTSECONDARY CREDIT** | | | | |
| **Type of WBL Experience** | **Year** | **Hours** | **College Course** | **Possible Cr.** | | **Attained** | |
|  |  |  |  |  |  | Y | N |
|  |  |  |  |  |  | Y | N |
|  |  |  |  |  |  | Y | N |
|  |  |  |  |  |  | Y | N |
|  |  |  | **Technical Assessment** | **Passed** | | | |
|  |  |  |  | Y | | N | |
|  |  |  |  | Y | | N | |
|  |  |  |  | Y | | N | |
|  |  |  | **CERTIFICATIONS, ENDORSEMENTS, LICENSES** | | | | |
|  |  |  | **Title** | **Date Obtained** | | | |
|  |  |  |  |  | | | |
|  |  |  |  |  | | | |
|  |  |  |  |  | | | |
| **TOTAL** |  |  |  |  | | | |

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| --- | --- | --- | --- |
| **AWARDS, SPECIAL RECOGNITION, SCHOLARSHIPS** | **DIPLOMA** | **Date Obtained** | |
|  | Diploma Earned: Insert diploma type here |  | |
| Technical Endorsement on Diploma? | Y | N |