

Heating, Ventilation, and Air Conditioning 1 & 2
Scope & Sequence: Year 1

Semester 1		Semester 2	
Quarter 1	Quarter 2	Quarter 3	Quarter 4
Professional Standards: 4.0,8.0 <u>Unit 1</u> Basic Safety <ul style="list-style-type: none"> Incidents and Hazard Recognition Safe Work Requirements Avoiding Struck-By Hazards Energy Related Hazards PPE Specific Job-Site Safety Hazards <p align="center">*SP/2 Completion</p> Professional Standards: 1.0, 3.0 <u>Unit 2</u> Introduction to Construction Math <ul style="list-style-type: none"> Whole Numbers and Operations Fractions The Decimal System Tools to Measure Length Conversions: Imperial and Metric Systems Geometry: Angles, Area & Volume 	Professional Standards: 1.0, 4.0,5.0 <u>Unit 3</u> Introduction to Hand Tools <ul style="list-style-type: none"> Identify and Properly Use Hand Tools Identify and Properly Use Measurement and Layout Tools Identify and Properly Use Cutting and Shaping Tools Identify and Properly Use Chain Falls, Come-Alongs, Clamps, etc... Professional Standards: 1.0, 4.0,5.0 <u>Unit 4</u> Introduction to Power Tools <ul style="list-style-type: none"> Identify and Properly Use Power Drills and Impact Wrenches Identify and Properly Use Various Power Saws Identify and Properly Use Grinders and Attachments Identify and Properly Use Miscellaneous Power Tools 	Professional Standards: 1.0, 4.0,5.0 <u>Unit 5</u> Introduction to Construction Drawings <ul style="list-style-type: none"> Identify and Describe Types of Construction Drawings Purpose of 5 Basic Construction Drawing Components. Significance of Drawing Elements Use of Dimensions and Drawing Scales Use of Engineer's and Architect's Scales Professional Standards: 1.0, 4.0,5.0 <u>Unit 6</u> Introduction to Basic Rigging <ul style="list-style-type: none"> Identify Rigging Slings, Hardware, and Equipment. Inspecting Slings Rigging Hardware Types of Hoists Rigging Hitches 	Professional Standards: 1.0, 2.0, 3.0, <u>Unit 7</u> Basic Communication Skills <ul style="list-style-type: none"> Communication, Listening, and Speaking Process Relationship between Communication and Job Performance Proficient Reading and Writing Skills Relationship between Reading and Writing Skills and Job Performance Professional Standards: 1.0, 2.0, 3.0, <u>Unit 8</u> Basic Employability Skills <ul style="list-style-type: none"> Construction Business and Trades Critical Thinking and Problem Solving Professionalism Professional Standards: 4.0, 8.0 <u>Unit 9</u> Introduction to Materials Handling <ul style="list-style-type: none"> Safety-Materials Handling Material Handling Equipment