<table>
<thead>
<tr>
<th>PROGRAM YEAR</th>
<th>SEMESTER</th>
<th>CURRICULUM</th>
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| 1st Year     | 1st Semester | 1. OSHA Certification  
2. Use and Care of Tools  
3. Basic Refrigeration and Basic Science  
4. Basic Related Trade Math |
|              | 2nd Semester | 1. First Aid & CPR, EPA Section 608  
2. Basic Rigging and Basic Electrical Fundamentals  
3. Soldering and Brazing  
4. Basic Safe Use of DMM |
| 2nd Year     | 1st Semester | 1. Basic Drawing & Blue Print Reading  
2. Introduction to Basic Drawing and Measuring tools.  
4. Valve and Fitting Identification |
|              | 2nd Semester | 1. Isometric Drawings, Building Layouts  
2. Introduction to SMAW, Introduction to Oxy-Fuel Cutting  
3. Run stringers on plate, How to strike an arch  
4. Customer Service |
| 3rd Year     | 1st Semester | 1. Mechanical Building Code  
2. Welding Shop time - To Obtain 2G Certification  
3. Refrigerants and Oil Safe Handling,  
4. Basic Vapor Compression Cycle, Basic cooling tower and chiller operation. |
|              | 2nd Semester | 1. Introduction to Hydronics  
2. Piping systems (open and close Loop)  
3. Chilled water application  
4. Pump Alignment |
| 4th Year     | 1st Semester | 1. Introduction to Steam Systems, Low pressure boilers  
2. Shop time - Gas burners, one-pipe and two-pipe steam systems  
3. Welding Shop time - to obtain 5G certification |
|              | 2nd Semester | 1. Related trade math 2, trigonometry  
2. Welding Shop time - To obtain 5G  
3. Introduction to 57.25 inch |
| 5th Year     | 1st Semester | 1. Intro to Miter Cuts, identifying Sides of Triangles and Angles.  
2. Hand cutting pipe bevels, Intro to rolling offsets  
3. Welding shop - to obtain 6G |
|              | 2nd Semester | 1. Fabrication of Rolling offsets, Intro to Pipe Intersections, Intro to Laterals  
2. Special degree offsets  
3. Welding shop - to obtain 6G  
4. Intro to GTAW, Learn principles for UA-21 and UA-22 |