## Real World Problem Scenario

Scenario:	Pressure Vessels
Business:	Plumbers and Pipefitters Marietta Local 168
<b>Business Participant:</b>	Steve Zollar - Apprenticeship Instructor
Career Cluster(s):	Architecture and Construction, STEM
Grade Level:	9-12
Standards & Skills:	<ul> <li>G.MG Apply Geometric Concepts in Modeling Situations</li> <li>P.F: Forces, Momentum, ad Motion</li> <li>Design and Technology, Topic 4: Evaluate designs using functional, aesthetic, and creative elements</li> <li>9-12.DT.2.b. Implement, document and present a design process as applied to a particular product, process, or problem</li> </ul>

## **Problem Description:**

A realistic, innovative miniature pressure vessel needs to be designed and created to satisfy a particular customer. The pressure vessel must be designed with a specific temperature, pressure, and volume.

## Things to be considered or defined for the solution:

- Safety Regulations
- ANSI Standards
- Pressure testing
- Orthographic and isometric design drawings will be needed

