

HVAC SOLDERING AND BRAZING

Pierce County Careers Connection
Dual Credit Articulation Agreement

Upon completion of a full year of high school or equivalent to the following competencies:

- **Use Lead Free Solder**
 - Use lead free and 95/5 filler metal
 - Meet American National Standards Institute Requirements Z49.1
 - Finished assembly must be free of leaks, neat appearing and assembled according dimensions of drawing or plan
 - Assembly must pass leak test

- **Hard Solder**
 - Use high silver content solder (25-45% silver) filler metal
 - Meet American National Standards Institute requirements Z49.1
 - Finished assembly must be free of leaks, neat appearing and assembled according to dimensions of drawing or plan
 - Assembly must pass leak test

- **Braze Materials**
 - Use 15% silver brazing alloy brazing rod (silphose)
 - Meet American National Standards Institute requirements Z49.1
 - Finished assembly must be free of leaks, neat appearing and assembled according to dimensions of drawing or plan
 - Assembly must pass leak test

A student earning a “C” grade or better may earn college credit at the following college:

<u>College</u>	<u>Course</u>	<u>Credits</u>
Bates Technical College	HVAC 109 (CIP Code: 47.0201)	3

Upon entering the college program, the student may be asked to demonstrate competency in order to retain credit.