

San Joaquin Valley College

Program Learning Outcomes (PLOs) for the **Heating, Ventilation, Air Conditioning, and Refrigeration Program**

Upon completion of this program, the graduate will be able to:

1. Discuss theories of heating, refrigeration, and air conditioning and relate these concepts to practical applications
2. Apply proper procedures for the installation, operation, maintenance and repair of both residential and light commercial heating, ventilation, air conditioning, and refrigeration equipment and systems
3. Demonstrate proper usage of the basic tools of the trade
4. Demonstrate requisite mastery to apply for and obtain the EPA 608 certification from the Environmental Protection Agency
5. Create effective reports and documents, electronically and in writing
6. Apply advanced electrical concepts and critical thinking skills to interpret and draft schematic wiring diagrams, and perform system diagnostics and interpret results
7. Relate and apply concepts of communication, reasoning, critical analysis, ethical behavior and appropriate interpersonal interaction to situations in his or her career and personal life
8. Demonstrate the social skills, professional appearance, attitudes, and behavior that employers expect of all SJVC graduates
9. Adhere to national, state, and local safety practices used by service technicians working on HVAC-R systems

San Joaquin Valley College

The following table illustrates how each course relates to each of the PLOs:

I = Introduced

D = Developed

M = Mastery Level

	HVAC-R Program Outcomes								
	PLO 1	PLO 2	PLO 3	PLO 4	PLO 5	PLO 6	PLO 7	PLO 8	PLO 9
AC 100	I		I				I	D	
AC 300	D	D	D				I	D	
AC 400	M	M	M	M			D	D	
EC 100			I			I	I	D	
EC 200		I	I			D	I	D	
EC 302		D	D			D	I	D	
EC 400		M	M	M		M	D	D	
RF 100	I		I				I	D	
RF 200	D	I	I				I	D	
RF 302	D	D	D				I	D	
RF 400	M	M	M	M			D	M	
ENG 121					I, D		I	D	
ENG 122					M		D	D	
MTH 121							I	D	
MTH 122							D	D	
NSC 1							D	D	
PHIL IC					I		D	D	
PSY 1					I		D	D	
SOC 1					I		D	D	