

Program Outcome Mapping

Automotive Technician Certificate

Department: Automotive Mechanical

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Purpose: The purpose of this form is to map program outcomes. This benefits your program by allowing visualizations on how your program aligns with San Bernardino Valley College's outcomes. Part I maps your Program Learning Outcomes (PLOs) to Institutional Learning Outcomes (ILOs). Part II maps your PLOs to courses within your program. Once this is completed, we will continue the mapping by including Student Learning Outcomes (SLOs) to PLOs and ILOs.

Institutional Learning Outcomes (ILOs)

ILO 1 Communication Skills	ILO 2 Quantitative Skills	ILO 3 Critical Thinking Skills	ILO 4 Discipline Specific Skills	ILO 5 Personal, Social, Professional Responsibility
<p><u>Literacy:</u> Reading, listening, observing, speaking, and writing</p> <p><u>Interpersonal Skills:</u> Working with individuals and groups, including conflict resolution, and giving/receiving constructive feedback</p>	<p><u>Mathematical Theory:</u> Understanding mathematical concepts and structures</p> <p><u>Applied Mathematics:</u> Applying mathematical skills and numerical data to analyze and solve real world problems</p> <p><u>Mathematical Visualization:</u> Using graphs, charts, and tables</p>	<p><u>Information Literacy:</u> Finding, interpreting, and evaluating information in print, electronic, and non-electronic media sources</p> <p><u>Logical Reasoning:</u> Constructing, supporting, analyzing, and evaluating arguments</p> <p><u>Problem Solving:</u> Using evidence-based reasoning to articulate a problem and propose hypotheses or solutions</p> <p><u>Creativity:</u> Using creative reasoning for problem solving and personal and social expression</p>	<p><u>Discipline Theory:</u> Understanding and employing discipline vocabulary, ideas, theories, standards, and ethics</p> <p><u>Discipline Technology:</u> Using tools, computers, instruments, and equipment relevant to discipline</p> <p><u>Discipline performance:</u> Working in labs, workshops, clinics, performances, and work experience relevant to discipline</p>	<p><u>Self-knowledge:</u> Understanding and evaluating personal strengths, weaknesses, biases, and values</p> <p><u>Goal setting:</u> Setting goals that are realistic and balance educational, professional, and personal life</p> <p><u>Cultural Awareness:</u> Understanding and respecting one's own culture, other cultures, and diversity</p> <p><u>Ethics:</u> Understanding and practicing ethics, intellectual honesty, fairness, and personal responsibility</p>

Program Outcome Mapping

Part I - Directions: Use the chart above to align PLOs to ILOs. Use an "X" to indicate that a PLO is a major focus of the course or program. This means the PLO has a clear connection to the PLO or ILO. There should be one "X" per column. You may not use every column, but it may be because the SLO will eventually lead to an ILO.

PLO to ILO Map					
Automotive Technician Certificate	Use an "X" to indicate where a PLO aligns with an ILO:				
	1	2	3	4	5
<i>At the completion of the program, students will be able to:</i>					
1. Read and interpret automotive service manuals	X		X	X	
2. Write accurate repair orders, requests, reports and estimates	X		X	X	X
3. Diagnose and repair automotive brake systems	X	X	X	X	X
4. Diagnose and repair automotive suspension systems	X	X	X	X	X
5. Diagnose and repair automotive electrical systems	X	X	X	X	X
6. Diagnose and repair automotive emissions and engine performance	X	X	X	X	X
7. Diagnose and repair automotive drive train systems	X	X	X	X	X
8. Diagnose and repair automotive engines	X	X	X	X	X
9. Diagnose and repair automotive heating and air-condition systems	X	X	X	X	X
10. Diagnose and repair general maintenance to the automobile	X	X	X	X	X
11. Demonstrate ability to manipulate and solve a variety of applied technical problems using formula, conversion charts, and analysis with or without a calculator	X	X	X	X	
12. Demonstrate how to perform basic maintenance related to hybrid and electric vehicles	X	X	X	X	X

Program Outcome Mapping

Part II - Directions: Use the catalog link to align PLOs to each course listed in your program. Look through your course offerings and determine what course(s) align with each PLO below.

PLO to Course Map	
Automotive Technician Certificate Catalog Link: https://catalog.valleycollege.edu/degree-certificate-program-index/automotive-technology/automotive-technician-certificate-achievement/ <i>At the completion of the program, students will be able to:</i>	Type the course or courses in the program that align to each PLO below:
1. Read and interpret automotive service manuals	Auto: 010, 050, 052, 056, 064, 065, 068, 069, 075, 077, 084, 090
2. Write accurate repair orders, requests, reports and estimates	Auto: 084, 075
3. Diagnose and repair automotive brake systems	Auto 050
4. Diagnose and repair automotive suspension systems	Auto: 052
5. Diagnose and repair automotive electrical systems	Auto: 064, 065
6. Diagnose and repair automotive emissions and engine performance	Auto: 068, 069
7. Diagnose and repair automotive drive train systems	Auto: 077
8. Diagnose and repair automotive engines	Auto: 090
9. Diagnose and repair automotive heating and air-condition systems	Auto: 056
10. Diagnose and repair general maintenance to the automobile	Auto: 084
11. Demonstrate ability to manipulate and solve a variety of applied technical problems using formula, conversion charts, and analysis with or without a calculator	Auto: 010
12. Demonstrate how to perform basic maintenance related to hybrid and electric vehicles	Auto: 010