

# Program Outcome Mapping

## Aviation Maintenance Technician Certificate

Department: Aeronautics

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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					
<b>Aviation Maintenance Technician Certificate</b>  <i>At the completion of the program, students will be able to:</i>	Use an “X” to indicate where a PLO aligns with an ILO:				
	1	2	3	4	5
1. Familiarization with and application of general/calculations and basic electricity of aviation as required by the FAA		X			
2. Familiarization with and application of general/materials and servicing of aviation as required by the FAA			X		
3. Interpret airframe and powerplant manuals			X		
4. Perform required inspections on an aircraft				X	
5. Troubleshoot aircraft airframe and powerplant systems				X	
6. Service and repair aircraft airframe and powerplant systems				X	
7. Assess the serviceability of parts				X	
8. Write descriptive discrepancy reports			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	
<b>Aviation Maintenance Technician Certificate</b> Catalog Link: <a href="https://catalog.valleycollege.edu/degree-certificate-program-index/aeronautics/aviation-maintenance-technician-certificate-achievement/">https://catalog.valleycollege.edu/degree-certificate-program-index/aeronautics/aviation-maintenance-technician-certificate-achievement/</a> <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. Familiarization with and application of general/calculations and basic electricity of aviation as required by the FAA	Aero 051,Aero 051L,Aero 052,Aero 052L
2. Familiarization with and application of general/materials and servicing of aviation as required by the FAA	Aero 051,Aero 051L
3. Interpret airframe and powerplant manuals	Aero 052, Aero 052L, Aero 054, Aero054L
4. Perform required inspections on an aircraft	Aero 052, Aero 052L, Aero, 051, Aero051L
5. Troubleshoot aircraft airframe and powerplant systems	Aero 052, Aero 052L, Aero 054, Aero054L
6. Service and repair aircraft airframe and powerplant systems	Aero 052, Aero 052L, Aero 054, Aero054L
7. Assess the serviceability of parts	Aero 052, Aero 052L, Aero 054, Aero054L
8. Write descriptive discrepancy reports	Aero 052, Aero 052L, Aero 054, Aero054L, Aero 053, aero 053L