

Aviation Maintenance Technology training is offered locally at Southern California Logistics Airport (SCLA). This program includes all classroom and practical training required to prepare for the Federal Aviation Administration (FAA) licensing exams for Airframe and Power Plant Technicians. The program includes the following:

- General Aviation;
- Aviation – Power plant; and
- Aviation – Airframe

For more information about this program including registration for the next class session, go to [www.vvc.edu](http://www.vvc.edu) and select Departments, Aviation Maintenance Technology.

## Faculty

Christopher Ohshita

## Degrees and Certificates Awarded

Associate in Science, Aviation Maintenance Technology  
Aviation Powerplant Technician Certificate

Aviation Airframe Technician Certificate

## Program Learning Outcomes

A student receiving a degree or certificate in this field will be able to:

- Safely and responsibly perform aviation repairs while minimizing impact on the environment
- Determine necessary repairs to bring the aircraft into industry compliance for general maintenance.

## Associate Degree

To earn an Associate in Science degree with a major in Aviation Technology, complete the eight aviation courses focusing in generals, powerplant, and airframe Technology courses and meet all Victor Valley College graduation requirements.

<b>AVIATION MAINTENANCE TECHNOLOGY, AS (35439)</b>		
To earn an Associate in Science degree with a major in Aviation Maintenance Technology, complete the eight aviation courses focusing in general, powerplant, and airframe aviation Technology courses and meet all Victor Valley College graduation requirements.		
<b>Program Requirements: 79.0 units</b>		
<i>All of the following must be completed</i>		
AVA 51	General Aviation 1	9.5
AVA 52	General Aviation 2	9.5
AVA 61	Airframe 1	9.5
AVA 62	Airframe 2	9.5
AVA 63	Airframe 3	9.5
AVA 71	Powerplant 1	10.5
AVA 72	Powerplant 2	10.5
AVA 73	Powerplant 3	10.5
<b>AVIATION AIRFRAME TECHNICIAN CERTIFICATE OF ACHIEVEMENT (17586)</b>		
To earn an Associate in Science degree with a major in Aviation Maintenance Technology, complete the eight aviation courses focusing in general, powerplant, and airframe aviation Technology courses and meet all Victor Valley College graduation requirements.		
<b>Program Requirements: 28.5 units</b> <i>All of the following must be completed with a grade "C" or better:</i>		
AVA 61	Airframe 1	9.5
AVA 62	Airframe 2	9.5
AVA 63	Airframe 3	9.5

# Aviation

## AVIATION POWERPLANT TECHNICIAN CERTIFICATE OF ACHIEVEMENT (17587)

To earn an Associate in Science degree with a major in Aviation Maintenance Technology, complete the eight aviation courses focusing in general, powerplant, and airframe aviation Technology courses and meet all Victor Valley College graduation requirements.

**Program Requirements: 31.5 units** | *All of the following must be completed with a grade "C" or better:*

AVA 71	Powerplant 1	10.5
AVA 72	Powerplant 2	10.5
AVA 73	Powerplant 3	10.5

## Aviation Courses

### AVA 50 AVIATION TECHNOLOGY SURVEY

**Units: 4.0** | **48-54 hours lecture and 48-54 hours laboratory**

*(No prerequisites)*

This course is designed to allow interested students the ability to explore aviation maintenance career pathways. This course will focus on principles and practices of modern aircraft maintenance technology.

### AVA 51 GENERAL AVIATION 1

**Units: 9.5** | **120-135 hours lecture and 96-108 hours laboratory**

*(No prerequisites)*

This course is designed to prepare students for a career in aviation maintenance technology. Topics include math, basic electricity, basic physics, fluid lines and fittings and materials and processes.

### AVA 52 GENERAL AVIATION 2

**Units: 9.5** | **120-135 hours lecture and 96-108 hours laboratory**

*(Prerequisite: AVA 51 with a grade of 'C' or better, or equivalent experience)*

This course is designed to prepare students for a career in aviation maintenance technology. Topics include maintenance and ground operations.

### AVA 61 AIRFRAME 1

**Units: 9.5** | **96-108 hours lecture and 168-189 hours laboratory**

*(Prerequisite: AVA 51 and AVA 52 with a grade of 'C' or better, or equivalent experience)*

This course is designed to prepare students for a career in aviation maintenance technology. Topics include aircraft materials (wood, metal, nonmetallic), coverings and finishes, aircraft inspection, assembly and rigging and welding.

### AVA 62 AIRFRAME 2

**Units: 9.5** | **96-108 hours lecture and 168-189 hours laboratory**

*(Prerequisite: AVA 51 and AVA 52 with a grade of 'C' or better, or equivalent experience)*

This course is designed to prepare students for a career in aviation maintenance technology. Topics include aircraft atmosphere, communication, navigation, fuel, landing gear, hydraulic, and pneumatic power systems.

### AVA 63 AIRFRAME 3

**Units: 9.5** | **96-108 hours lecture and 168-189 hours laboratory**

*(Prerequisite: AVA 51 and AVA 52 with a grade of 'C' or better, or equivalent experience)*

This course is designed to prepare students for a career in aviation maintenance technology. Topics include aircraft electrical systems, positioning and warning systems, ice and rain control systems, and fire protection systems.

## AVA 71 POWERPLANT 1

**Units: 10.5** | **128-144 hours lecture and 120-135 hours laboratory**

*(Prerequisite: AVA 51 and AVA 52 with a grade of 'C' or better, or equivalent experience)*

This course is designed to prepare students for a career in aviation maintenance technology. Topics include reciprocating engines, turbine engines, and engine inspection.

## AVA 72 POWERPLANT 2

**Units: 10.5** | **128-144 hours lecture and 120-135 hours laboratory**

*(Prerequisite: AVA 51 and AVA 52 with a grade of 'C' or better, or equivalent experience)*

This course is designed to prepare students for a career in aviation maintenance technology. Topics include induction and engine airflow systems, engine exhaust and reverser systems, and propellers.

## AVA 73 POWERPLANT 3

**Units: 10.5** | **128-144 hours lecture and 120-135 hours laboratory**

*(Prerequisite: AVA 51 and AVA 52 with a grade of 'C' or better, or equivalent experience)*

This course is designed to prepare students for a career in aviation maintenance technology. Topics include engine instrument systems, engine electrical, ignition and starting systems, and engine fuel systems.

## AVA 74 AVIATION TECHNOLOGY CAPSTONE

**Units: 4.0** | **48-54 hours lecture and 48-54 hours laboratory**

*(No prerequisite)*

This course is designed to prepare students for FAA licensure testing. Topics include a review of general, airframe, and power plant curricula.