

# OBAP HIGH DESERT ACE ACADEMY 2023



DATE: JUNE 19 – 30<sup>TH</sup>



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## **About the OBAP High Desert ACE Academy**

The Organization of Black Aerospace Professionals ACE Academy is a nationally recognized program co-sponsored by the Federal Aviation Administration. (FAA) and the National Black Coalition of Federal Aviation Employees (NBCFAE).

The purpose of Aviation Career Education (ACE) is to offer first level exposure to the aviation industry by providing aviation career exploration for middle and high school students. Academy participants learn about aviation history, theory of flight, and other aviation related subjects. Students will have the opportunity to go on field trips to aviation facilities, museums and participate in other hands-on activities designed to give students a total aviation experience.

## **Overview**

The High Desert ACE program is designed to expose youth to the wide variety of career opportunities in aviation. The goal is to provide an opportunity for students to receive hands-on experience of learning about the history of aviation, contributions made by minorities in aviation, fundamentals of aerodynamics, the role of government in aviation, and the many careers available in the aviation industry. It is also designed to help students understand the importance of education and how it relates to various aviation and aerospace careers. Students will also experience the joy of flight by flying in the right seat of an aircraft.

Students will meet Aviation Professionals and participate in field trips to a variety of aviation facilities and educational institutions.

## **Activities**

As a member of High Desert ACE Academy, you will:

- Take an orientation flight in a Cessna or Piper aircraft
- Receive introductory aviation education
- Take field trips to different aviation-related facilities
- Be introduced to aviation history
- Fly a full-motion flight simulator, when available
- Learn the qualities of leadership
- Associate and work with other youth
- Meet professionals from the aviation community
- Operate unmanned aerial systems and remote-control vehicles, when available

## **Admission Requirements**

Admission is offered to boys and girls from **13 to 18** years old who have an interest in learning about aviation and aerospace. Students must be physically capable of participating in all activities.

- High standards of behavior and self-discipline are expected, and students must abide by all academy regulations.
- Parents or guardians must attend an orientation before programs begin.

### **Location**

15579 Eighth Street, Victorville, CA 92395

### **Contact Information**

Tony Marshall

High Desert ACE Academy Director

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Assistant Directors' Name

Jacci Ebert Assistant High Desert ACE Academy Director

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Date	Time	Activity
Friday June 16	1800 – 1900	Parent/Guardian Brief
Monday June 19	0800 – 0845	Welcome/General Safety Briefing/Meet the Team Introduction/Ice Breaker Exercise
	0845 – 0900	Break
	0900 – 0945	Pre-test
	0945 – 1000	Break
	1000 – 1100	Lesson: History of Flight & Pioneers in Aviation
	1100 – 1200	Lunch
	1200 – 1300	Lesson: Aircraft Structure & Components
	1300 – 1345	Lesson: Forces of Flight
	1345 – 1400	Break
	1400 – 1415	Lesson: Axes of Flight
	1415 – 1545	Lesson: Control Surfaces
	1545 – 1555	Bernoulli & Newton
	1555 - 1600	Daily Debrief and Dismissal

Date	Time	Activity
Tuesday June 20	0800 – 0815	Daily Review
	0815 – 0915	Lesson: Aircraft Flight Instruments
	0915 – 0930	Break (Play “How Air Traffic Control Works” video)
	0930 – 1300	Lesson: Traffic Pattern
	1300 – 1330	Lunch
	1330 – 1350	Lesson: Ground Effect, Wingtip Vortices
	1350 – 1555	Construct and Fly FP-9 Gliders
	1555 - 1600	Daily Debrief and Dismissal
Date	Time	Activity
Wednesday June 21	0800 – 0815	Daily Review
	0815 – 0945	Lesson: Powerplants
	1045 - 1100	Lesson: Chart Reading
	1100 - 1200	Lesson: Navigation
	1200 - 1300	Lunch
	1300 - 1330	Navigation Exercise

	1330 - 1400	Lesson: Rockets	
	1400 - 1555:	Construct and Launch Stomp Rockets	
	1555 – 1600	Daily Debrief and Dismissal	
Thursday June 22	0800 – 0815	Daily Review	
	0815 – 0845	Travel to Southern California Logistics Airport	
	0900 – 1000	Tour SCLA Fire Department and Tower	
	1000 – 1200	US Navy F-18 visit	
	1200 – 1300	Millionair FBO Cafe Lunch	
	1300 - 1530	General Electric Aviation Tour	
	1530 - 1555	Return Travel to MMK Learning Center	
	1555 - 1600	Daily Debrief and Dismissal	

Date	Time	Activity
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<b>Friday June 23</b>	0800 – 0815	Daily Review
	0815 – 0930	Lesson: Weather
	0930 – 0940	Break
	0940 - 1030	Lesson: Airspace
	1030– 1200	Lunch
	1200 - 1300	Lesson: Weight & Balance
	1300 - 1400	Lesson: Unmanned Aerial Systems
	1400 – 1600	Simulator Introduction, Practice
	<b>Date</b>	<b>Time</b>

<b>Date</b>	<b>Time</b>	<b>Activity</b>
<b>Saturday June 24</b>	0830– 1200	Young Eagle Flights Apple Valley Airport
<b>Monday June 26</b>	0700 – 0730	Breakfast
	0730 – 0900	Travel to March Air Reserve Base
	0900 – 0945	Fire Department Tour
	0945 – 1100	Aircrew Flight Equipment Tour

	1100 – 1200	Lesson: History of Flight & Pioneers in Aviation
	1100 – 1200	Lunch
	1200 – 1500	KC-135, C-17 Tours
	1500 – 1625	Return Travel to MMK Learning Center
	1625- 1630	Daily Debrief and Dismissal
	<b>Time</b>	<b>Activity</b>
	0800 – 0830	Breakfast
	0830 – 0900	Travel to SCLA
	0900 – 1200	COMAV Tour
<b>Date</b>	1200 – 1300	Lunch
<b>Tuesday June 27</b>	1300 – 1330	Return Travel to MMK Learning Center
	1330 – 1555	Flight Simulator Practice
	1555 - 1600	Daily Debrief and Dismissal
	<b>Time</b>	<b>Activity</b>
	0800 – 0830	Breakfast
	0830 – 0900	Travel to SCLA
	0900 - 1200	Aviation Maintenance Training School Tour



	1200 - 1300	Lunch
<b>Date</b>	1300 - 1530	IAC Paint Facility Tour
<b>Wednesday June 28</b>	1530 - 1555	Return Travel to MMK Learning Center
	1555 - 1600	Daily Debrief and Dismissal
	1530 - 1555	Return Travel to MMK Learning Center
	1555 - 1600	Daily Debrief and Dismissal
<b>Thursday June 22</b>	0800 - 0830	Breakfast
	0830 - 1000	Review, Write Thank you Letters
	1000 - 1100	Resume Writing
	1100 - 1200	Scholarship Search

	1200 - 1300	Lunch
	1300 - 1400	Careers, Interview Preparation
	1400 – 1555	Simulator Practice
	1555 - 1600	Debrief and Dismissal

Date	Time	Activity
Friday June 30	0800 – 0830	Breakfast
	0830 – 0900	Post-Test
	0900 – 0915	Break
	0915 - 1015	Guest Speaker – Barboza Space Center
	1030 – 1200	Continue Writing Thank you Letters
	1200 - 1300	Lunch
	1300 - 1400	Fill out Critiques, Debrief
	1400 – 1500	Graduation Ceremony, Awards

### **Important Notes**

Student Drop-off and Pickup. Students will need to be dropped-off and picked-up daily at the High Desert **ACE Academy Location**. Please see the address below.

Millionaire Mind Kids Learning Center  
15579 Eighth Street  
Victorville, CA 92395

### **Nearby Hotels**

**Hilton Gardens Inn**  
12603 Mariposa Road, Victorville, CA 92395

Hilltop Inn & Suites  
16901 Stoddard Wells Road, Victorville, CA 92394

### **Graduation Ceremony**

A graduation ceremony will be held on Friday, June 30 at the Millionaire Mind Kids Learning Center at 2:00 pm. Parents & Guardians, you are welcome to attend the ceremony.