

OBAP HIGH DESERT ACE ACADEMY ACE ACADEMY 2024



DATE: JUNE 17TH - JUNE 28TH



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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.

		All days begin at the Millionaire Mind Kids Smart Center, 15579 Eighth Street, Victorville, CA 92395. . Most days begin at 8:00 am and end at 4:00 pm however some Field Trip days begin at 7:30 and end at 4:30
17-Jun	0800 - 0830	Parent Orientation
	0800 - 0830	Breakfast
	0830 - 0930	Welcome, Safety Briefing, Staff Introduction, Pre-Test
	0930 - 0945	Break
	0945 - 1030	Student Introductions, Airplane Parts, Forces of Flight, Axes,
	1030 - 1200	Flight Controls, History of Flight, Theory of Flight
	1200 - 1300	Lunch
	1300 - 1400	Construct and test fly kites
	1400 - 1415	Break
	1415 - 1500	Types of Airplanes, Helicopters, UAVs
	1500 - 1530	Airplane Anatomy Quiz
	1530 - 1600	Review Pre-test, Homework assignment: Research an airplane, Debrief
18-Jun	0800 - 0830	Breakfast
	0830 - 0930	Review, Left Turning Tendencies, Ground Effect, Wingtip Vortices, Stability
	0930 - 0945	Break
	0945 - 1030	Instruments, Pitot Static and Gyroscopic Systems,
	1030 - 1200	Angle of Attack, Stalls and Spins
	1200 - 1300	Lunch
	1300 - 1400	Construct and test fly FP 9 gliders
	1400 - 1415	Break
	1415 - 1500	Aviation Physiology
	1500 - 1530	Aviation Math Quiz
	1530 - 1600	Review Airplane Anatomy Quiz, H/W assignment: Prepare your Resume, Debrief
19-Jun	0800 - 0830	Breakfast
	0830 - 0930	Powerplants
	0930 - 0945	Break

	0945 - 1200	Chart Interpretation, Navigation, Navigation Exercise
	1200 - 1300	Lunch
	1300 - 1400	Flight Simulator Orientation
	1400 - 1415	Break

	1415 - 1530	Flight Simulator practice
	1530 - 1600	Review Math Quiz, H/W assignment: Prepare scholarship essay, Debrief
20-Jun	0800 - 0830	Breakfast
	0830 - 0930	Review, Airspace
	0930 - 0945	Break
	0945 - 1100	Weather
	1100 - 1200	Weight and Balance
	1200 - 1300	Lunch
	1300 - 1400	E-6B Lesson
	1400 - 1415	Break
	1415 - 1500	Flight Planning
	1500 - 1530	STEM Flight Quiz
	1530 - 1600	Review STEM Flight Quiz, H/W: Find a Scholarship, Research US Navy, Debrief
21-Jun	0800 - 0830	Breakfast
	0830 - 0930	Review, Air Traffic Control, FAA
	0930 - 0945	Break
	0945 - 1100	UAVs, Rockets
	1100 - 1200	Aerospace Careers, Interview Techniques
	1200 - 1300	Lunch
	1300 - 1500	Construct and test Stomp Rockets
	1500 - 1515	Break
	1515 - 1600	Young Eagles Briefing, H/W Research EAA Chapter 768, Young Eagles, Debrief
22-Jun	0800 - 1200	Young Eagle Flights Apple Valley Airport, Homebuilt plane tour, H/W: Edwards
24-Jun	0730 - 0800	AFB Breakfast
	0800 - 0915	Bus Travel to Edwards AFB

	0930 - 1500	Edwards AFB Tour, Lunch at Subway
	1500 - 1615	Bus Travel to MMK Center
	1615 - 1630	Debrief
25-Jun	0800 - 0830	Breakfast
	0830 - 0900	Bus Travel to Southern California Logistics Airport, COMAV MRO
	0915 - 1200	COMAV Tour, Lunch provided
	1300 - 1500	Tour Fire Department, ATC Tower
	1500 - 1530	Bus Travel to MMK Center

	1530 - 1600	Debrief, H/W: Research COMAV, ATC Tower Operations
26-Jun	0800 - 0830	Breakfast
	0830 - 0900	Bus Travel to Southern California Logistics Airport, COMAV MRO
	0915 - 1200	COMAV Tour, Lunch provided
	1300 - 1500	Tour Fire Department, ATC Tower, Possible US Navy Fly-in
	1500 - 1530	Bus Travel to MMK Center
	1530 - 1600	Debrief, H/W: Research School of Aviation, IAC
27-Jun	0800 - 0830	Breakfast
	0830 - 0900	Bus Travel to Southern California Logistics Airport, School of Aviation
	0915 - 1200	A & P School Tour, Lunch Million Air Café
	1300 - 1500	Tour IAC Paint Facility
	1500 - 1530	Bus Travel to MMK Center
	1530 - 1600	Debrief, H/W: Research General Atomics
28-Jun	0800 - 0830	Breakfast
	0830 - 1200	Review, Post-Test, Critiques, Simulator Practice, Write Thank you letters
	1200 - 1300	Lunch
	1300 - 1400	Guest Speakers
	1400 - 1500	Graduation Exercise

	1300 - 1500	
	1500 - 1530	Tour Fire Department, ATC Tower
	1530 - 1600	Bus Travel to MMK Center
20-Jun		Debrief
21-Jun		Day 4: Thursday, June 20, 2024 8 am - 8:30 am - Breakfast 8:30 am - 11:45 am - Academics 12 noon - Lunch 1 pm - 4 pm - Academics

22-Jun		Day 5: Friday, June 21, 2024 8 am - 8:30 am - Breakfast 8:30 am - 11:45 am - Academics 12 noon - Lunch 1 pm - 4 pm - Academics
24-Jun		Day 6, Saturday, June 22, 2024 Field Trip to Apple Valley Airport 8 am - Meet at Main Terminal, 21600 Corwin Road, Apple Valley, CA 92307 8am - 12 pm -Orientation flights
25-Jun		Day 7: Monday, June 24, 2024 Field Trip Edwards AFB, 7:30 am - 8 am - Breakfast Bus departs at 8 am ; 9:15 am - 3 pm Edwards AFB (Lunch) 3 pm bus departs for MMK
26-Jun		Day 8: Tuesday, June 25, 2024 - 8 am - 8:30 am - Breakfast Bus departs 8:30 am Field Trip to SCLA, COMAV, 9 am - 1 pm -Tower, Fire Department 1:30 - 4 pm Academics at MMK Center
27-Jun		Day 9: Wednesday, June 26, 2024, Field Trip SCLA 8 am - 8:30 am - Breakfast 9:00 am - 12 pm - School of Aviation (lunch) 12:30 - 2 pm IAC, 2 - 3:30 pm return to MMK Center
28-Jun		Day 10: Thursday, June 27, 2024 7:30 - 8 am -Breakfast Bus Departs 8 am Field Trip General Atomics Bus departs GA at 3 pm
		Day 11: Friday June 28, 2024 8 am - 8:30 am - Breakfast 8:30 am - 1:30 pm - Academics, Simulators 2 pm - Graduation Ceremony

