

Aerospace & Defense

Learn how to map your career and find path to success!

Exciting careers for creative minds.....



Aerospace and Defense jobs are available at the entry level for people with short-term training or on the job training. However, jobs paying more usually require training. Some skills you can learn on the job, but a position as an engineer or aircraft mechanic may require a certificate or degree.

Some jobs may not be exclusively aerospace and defense focused. There are other jobs such as machine operators, mechanics, welders and more. Aerospace jobs run from entry level to middle-skill trades to engineers with Ph.Ds.

This is an industry that will see a significant portion of the workforce reach retirement age within the next five years.

Aerospace and Defense is a key industry in Nevada.

The state is home to Nellis Air Force Base, Creech Air Force Base, Naval Air Station Fallon and the Hawthorne Army Depot.

How to learn more:

- Explore this and other industries at www.nvcis.intocareer.org
- Find out if a job will pay your bills using the Reality Check at www.nvcis.intocareers.org
- Search for all the training programs in Nevada 15 Schools and other information regarding career or education options in Nevada by exploring <http://www.nevadayouth.org/>

How do I get started in A&E?

- » Keep your grades up in high school. Take math, computer, science and English classes.
- » Explore careers you might be interested in at www.nvcis.intocareers.org.
- » Explore careers and employment possibilities at www.NevadaYouth.org.
- » Do you know anyone who works in Aerospace and Defense? Interview him/her and ask if you can visit his/her workplace.
- » Make a plan based on your interests. How much training do different jobs require? Where can you find the training you need? How will you pay for it? What steps can you take to get you closer to your goal?

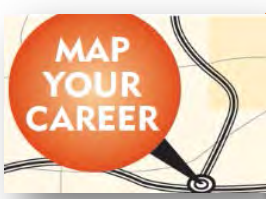
Career Paths in Aerospace & Defense

Education Level	Hourly Wage Ranges* (25 th – 75 th percentile)	Aviation Technology	Aviation Equipment Technology	Aviation - Supporting Industry	Aerospace Engineering
HIGH LEVEL	Aerospace Engineer \$25.87 - \$51.34	Airline/Commercial Pilots Flight Engineers	Aircraft Parts & Services Manager, Engineers	Electronic, Electrical, Mechanical and Materials Engineers, Design Engineers	Aerospace Engineers, Physicists, Astronauts
MID LEVEL	Aircraft Mechanics \$24.75 – \$32.69	Transportation Supervisors, Traffics Supervisors, Airfield Operation Specialists	Aircraft Mechanist, Aircraft Engine Specialist	Ind. Maintenance Tech., Ind. Electronic Tech., Communication Systems Tech., Process Improvement Tech.	Aerospace Engineering Technicians
ENTRY LEVEL	Aviation Technician \$22.39 - \$27.96	Traffic Technicians, Transportation Agents, Dispatchers	Avionics Services Technician, Airplane Assemblers	Crane/Tower Operators, Ind. Machinery Mechanics, Metal & Plastic Processors, Inspectors, Instrument Calibration & Repair, Assemblers, Welders	* Need min. associate degree...

*For info on wage ranges visit – Nevada Workforce Informer at <http://www.nevadaworkforce.com/>

Note: the colors for career path aligns with the CTE classes available in the school.

Our mission is to provide Nevada's businesses with access to a qualified workforce and encourage equal employment opportunities.



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Classes to take for different Programs of Study in Aerospace & Defense:

High School	9 th Grade	10 th Grade	11 th Grade	12 th Grade	Post Secondary
» Base course schedule that students will take in high school:	English I	English II	English III	English IV	College of Southern Nevada Great Basin College Nevada State College Truckee Meadows Community College University of Nevada, Las Vegas University of Nevada, Reno Western Nevada College
	Algebra I	Geometry	Algebra II	Senior Level Math Course	
	Biology	Chemistry or Geoscience	Junior Level Science Course	Elective	
	Health / Computer Literacy	World History	US History	US Government	
	Physical Education	Physical Education	Foreign Language or Elective	Foreign Language or Elective	

» Recommended classes for selected career paths in Aerospace & Defense :

Industry Recognized Certifications:

Aviation Technology:	Fundamentals of Aerospace and Aviation	Aircraft Systems and Structures	Pilot I	Pilot II	CareerSafe (OSHA)
Aviation Equipment Technology:	Fundamentals of Aerospace and Aviation	Aircraft Systems and Structures	Aviation Maintenance Technician I	Aviation Maintenance Technician II	CareerSafe (OSHA)
Electronic Technology:	Electronic Technology I	Electronic Technology II	Electronic Technology III	Electronic Technology Advanced Studies	CareerSafe (OSHA), J-STD-001 (IPC Certification), Student Electronic Technician (ETA Certification)
Mechanical Technology:	Mechanical Technology I	Mechanical Technology II	Mechanical Technology III	Mechanical Tech. Advanced Studies	CareerSafe - 10-hour (OSHA)
Diesel Equipment Technology:	Diesel Technology I	Diesel Technology II	Diesel Technology III	Diesel Technology Advanced Studies	Medium/Heavy Truck (T1-T8) (ASE), CareerSafe (OSHA)
Power Equipment Technology:	Power Equipment Technology I	Power Equipment Technology II	Power Equipment Technology III	Power Equipment Tech. Adv. Study	Career Safe (OSHA)
Welding Technology:	Welding Technology I	Welding Technology II	Welding Technology III	Welding Technology Advanced Studies	Certified Welder (ASE), CareerSafe (OSHA)
Mechanical Drafting & Design:	Mechanical Drafting and Design I	Mechanical Drafting and Design II	Mechanical Drafting and Design III	Mechanical Drafting and Design Advanced Studies	Autodesk Certified User (AutoDesk), Certified Apprentice Drafter (American Design Drafting Associate), Certified Solidworks Associate (Solidworks)
(PLTW) Project Lead The Way Aerospace Engineering	Introduction to Engineering	Principles of Engineering	Aerospace Engineering	Engineering Design & Development	

This program of study is based upon the requirements needed for an Advanced Diploma. Academic course names may vary among school districts. For detail information please visit: <http://ctae.nv.gov/>

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