

Aerospace Electronics (Industrial Technology - Aerospace Electronics)

- **Associate of Technical Science Degree**
- **Aerospace Electronics Technician Certificate of Completion**
- **Aerospace Pathway Readiness Certificate****

Significant increases in employment are expected in the aerospace industry, as well as a need for more workers with aviation-related skills. WVC is part of the Air Washington consortium and will train electronics workers for manufacturing and servicing of electronic components and equipment.

The industrial technology-aerospace electronics associate of technical science (ATS) degree and one-year aerospace electronics technician certificate program provide a broad foundation in electronics training. Instruction emphasizes a hands-on approach, use of sophisticated test equipment, and a solid base of information concerning the hardware and software of control systems for technical applications. These programs offer preparation for multiple nationally recognized industry certifications that may lead to employment and opportunities for future advancements with companies specializing in manufacturing or servicing all types of electronic equipment, including manufacturing and servicing of aerospace electronics.

For more information about graduation rates, the median debt of students who completed the program and other important information, visit www.wvc.edu/aerospaceelectronics.

Suggested Course Sequence:

Associate of Technical Science Degree (requires all first- and second-year courses)

Aerospace Electronics Technician Certificate of Completion (entire first year)

Offered at Wenatchee campus

First Year

Fall Quarter		Credits
INDT 100	Intro. to Aerospace Electronics.....	3
ELEC 125	Wiring Diagrams and Schematics.....	5
ELTRO 101	Basic DC-1	5
ENGR 102	Engineering Graphics and Design or	
WELD128	Basic Welding	3-4

Winter Quarter

OCED 100	Essentials for Job Success	1
ELEC 115	Applied Electricity	5
ELTRO 121	Digital Electronics	5
OCED 102*	Writing in the Workplace/ Technical English	5

Spring Quarter

ELEC 135	Control Fundamentals.....	3
ELTRO 132	Intro. to Computer Controls & PLCs.....	5
MATH 100T*	Technical Math or higher	5
INDT 250	Aerospace Electronics Capstone.....	2
OCED 130	Industrial Safety	5

Total Credits for Certificate 52-53

Second Year

Fall Quarter		Credits
CTS 110	Computer Hardware.....	5
ENGR 102	Engineering Graphics and Design or	
WELD128	Basic Welding (the course not completed in year one).....	3-4
ELTRO 210	Programming Software for PLCs.....	5
ELTRO 223	Programming Software for Tag- Based PLCs	3

Winter Quarter

ELTRO 220	Control Devices and Motor Drives.....	3
ELTRO 221	Graphic Interface Programs for PLCs.....	5
ELEC 225	Industrial Electricity and Controls.....	5

Spring Quarter

INDT 164	Plant Maintenance	5
ELTRO 231	Troubleshooting Electronic PLC Control Systems.....	5
ELTRO 240	Industrial Hydraulics and Pneumatics.....	5

Total Credits for Degree 97

*Placement score required.

**This certificate program does not qualify for financial aid if taken outside of the longer certificate or associate of technical science degree.

Aerospace Electronics (Industrial Technology - Aerospace Electronics)

Suggested Course Sequence:

*Aerospace Pathway Readiness Certificate***

Offered at Wenatchee campus

First Quarter		Credits
INDT 100	Intro. to Aerospace Electronics.....	3
ELEC 125	Wiring Diagrams and Schematics.....	5
OCED 102*	Writing in the Workplace/ Technical English	5
OCED 100	Essentials for Job Success	1
Second Quarter		
OCED 130	Industrial Safety	5
ELTRO 101	Basic DC-1	5
MATH 093*	Pre-Algebra or higher.....	5
Total Credits for Certificate		29

**Placement score required.*

***This certificate program does not qualify for financial aid if taken outside of the longer certificate or associate of technical science degree.*