NORTH SEATTLE COLLEGE

Pathway: **Aviation Electronics I: Wire Assembly Certificate**
Area of Study: **Skilled Trades and Technical Training**

This pathway meets the requirements for the Certificate in Aviation Electronics I: Wire Assembly. Students in this pathway learn basic knowledge, skills, and abilities to meet minimum requirements for employment as an entry-level wire assembly technician in aerospace-related industries.

Before Quarter One *Credits*
- ☐ Pre-College Math or ABE (if needed)
- ☐ Pre-College English, ABE, or ESL (if needed)

Quarter One (Fall)
- ☐ EET 109 (Prerequisite: MATH 081 or equivalent) or MATH& 141 (Prerequisite: MATH 098 with 2.5 or better or placement) 5
- ☐ EET 161 (Prerequisite: MATH 081 or equivalent).....................................5

Quarter Two (Winter)
- ☐ EET 162 (Prerequisite: EET 161 with 2.0 or higher and EET 109 or MATH 141 with 2.0 or higher)....................5
- ☐ EET 137 (Prerequisite: MATH 084 or higher or EET 109) 5

Quarter Three (Spring)
- ☐ EET 107 (Prerequisite: EET 162) 5
- ☐ EET 108 (Prerequisite: MATH 081 or equivalent)....................................5

Total Credits Required: 30

To Do List – A Guide to Help You Meet Your Goals

Before Quarter 1:
- ☐ Explore placement options: take the math and English placement tests if needed.
- ☐ Transfer previous college credits to North. https://northseattle.edu/credentials
- ☐ Attend new student orientation.
- ☐ Apply for financial aid for the upcoming academic year in Winter or Spring quarter to maximize your funding options.
- ☐ Visit startnextquarter.org to find out if Workforce Education funding is available for you.
- ☐ Explore Prior Learning Assessment (PLA) options if you have significant professional industry training.
- ☐ Meet with Electronics program navigator.

Quarter 1 (Fall)
- ☐ Schedule an appointment with your assigned advisor in Starfish (bit.ly/Starfishlogin) to meet and discuss your goals.
- ☐ Drop by the Library (https://libguides.northseattle.edu/welcome) to get help with research; check out resources; access computers and study space; and create media projects.
- ☐ Form study groups with classmates.
- ☐ View employment opportunities in EET News on Canvas quarterly.

Quarter 2 (Winter)
- ☐ Revisit Educational Plan with your academic advisor or with Electronics program navigator if interested in longer certificate or degree.
- ☐ Attend resume and interview prep workshops and explore job finding resources through OCE&E.
- ☐ Apply for graduation for the Aviation Electronics I: Wire Assembly Certificate.

Career Opportunities

This program prepares students for an entry-level position in aerospace manufacturing, avionics, and related fields.

Technician in:
1. Wire Harness Assembly
2. Mechanical Assembly
3. Avionics Manufacturing

For current employment and wage estimates, please visit and search at www.bls.gov/oes."

Approximate Costs Each Quarter

Tuition & fees for:

WA state residents	$1555.00
International students	$3297.75
Books, supplies, and miscellaneous fees	$475.00

Please note that these costs are estimates and may vary.

Apply for Financial Aid and Other Funding

All students in need should apply for financial aid. Don't assume you are not eligible. Visit https://northseattle.edu/financial-aid to learn more about the application steps and types of financial aid available, including grants and scholarships you don't have to pay back.

Some students may be eligible for Workforce Education tuition assistance programs depending on program of study, family income and family size, DSHS assistance, unemployment/ employment status of self or spouse, or veteran status. Take this short survey to find out if you pre-qualify for funding at: www.StartNextQuarter.org.

Which quarter can I begin?

Any.

Length of Program

30 credits = 2 quarters if you take 15 or more credits each term.

Class Times/Delivery Format?

North offers courses on-campus in the day time, evenings, online, and hybrid (part on-campus, part online). Most classes meet twice per week (Monday/Wednesday or Tuesday/Thursday) or once per week throughout the quarter.

Find Out More

For general questions, please contact Julie Lyderson, Electronics Program Navigator, at Julie.Lyderson@seattlecolleges.edu, (206) 934-4609 or a Skilled Trades and Technical Training advisor at advisornorth@seattlecolleges.edu, (206) 934-3658.

For questions related to specific courses, email course instructor.

Related Degrees and Certificates

North Seattle College is poised to meet the growing demand for highly skilled technicians with the most in-depth electronics program of any community or technical college in King County. North offers certificates and degrees in a wide range of specialty fields:

Electronics Technology AAS Degree
Provides opportunities for students interested in the operation, maintenance and repair of a wide array of electronics-based equipment. Program emphasizes a hands-on approach, use of test equipment and a solid base of information concerning computer hardware and software for technical applications.

Electronics Technology Certificate
Prepares students for employment with companies specializing in manufacturing and servicing all types of electronic equipment. North Seattle College graduates are preferred by industry employers and perform well in advanced training.

Electronics Engineering Technology Associate of Applied Science-Transfer (AAS-T) Degree
Emphasizes calculus-based math and physics. This degree is intended for those wishing to transfer to the Electronics Engineering Technology Bachelor of Applied Science (BAS) program offered by Central Washington University. Students intending to enter the workforce and potentially continue their education toward an Electronics Engineering Technology bachelor's degree may consider this option.

Aviation Electronics II: Electronics Technician Certificate
Provides students with the basic knowledge, skills, and abilities to meet minimum requirements for employment as an entry-level electronics technician in aerospace-related industries.

Avionics Technician Certificate
Provides students with the basic knowledge, skills, and abilities to meet minimum requirements for employment as an entry-level avionics technician in aerospace-related industries. Intended as a supplement to the Airframe and Powerplant (A&P) license for aviation maintenance technicians.

Healthcare Technology Management/Biomedical Equipment Technician (HTM/BMET) AAS Degree
Provides specialized training needed to install, calibrate, service, repair, and modify patient monitoring and diagnostic equipment. Coursework includes electronics technology, chemistry, human anatomy and physiology, medical terminology, and preparation specific to employment in hospitals, medical equipment manufacturing, and field service engineering.

Industrial Power and Control AAS Degree
Prepares students for employment with organizations that design, manufacture, service, sell, and support electrical and electronic systems that control machinery, automation, and processes.

Industrial Power and Control Certificate
Prepares students for employment with organizations that design, manufacture, service, sell, and support electrical and electronic systems that control machinery, automation, and processes.

Mechatronics AAS Degree
Prepares students for employment with organizations that design, manufacture, service, sell, and support electromechanical and robotic systems that control machinery, automation, and processes. Offered in partnership with Shoreline Community College (SCC) and requires enrollment at both SCC and North Seattle College.

Industrial Automation and Electronic Controls Certificate
Prepares students for employment with organizations that design, manufacture, service, sell, and support electrical and electronic systems that control machinery, automation, and processes.

IT Controlled Electronic Systems AAS Degree (offered by the IT Department)
Provides skills needed to install, maintain, and monitor information technology systems and IT-controlled electronic systems including security and entertainment systems.

IT Controlled Electronic Systems Certificate (offered by the IT Department)
Provides skills needed to install, maintain, and monitor information technology systems and IT-controlled electronic systems including security and entertainment systems.

Associate of Science Option II Degree, with an Emphasis in Engineering (Not an EET Program)
Provides a deeper theoretical foundation in engineering fundamentals. Intended for students who wish to transfer to an engineering bachelor's degree program.

Please see an advisor or the electronics navigator to determine which path is right for you.