

CORE PLUS AEROSPACE PROGRAM SPOTLIGHT:

RENTON SCHOOL DISTRICT

The [Renton School District](#) serves over 15,000 students, including 4,500 in four high schools. It provides an extensive [Career and Technical Education](#) program offering exploration, preparatory coursework, and hands-on experiences in various industries, including manufacturing. Core Plus Aerospace classrooms simulate real-world manufacturing environments, fostering continuous learning and personal growth under teacher guidance.

HIGH SCHOOL MANUFACTURING PATHWAYS

Year 1 - Industrial Technology

Industrial Technology, Intro

OSHA 10
Grades 9-12

Industrial Technology, Design

OSHA 10
Grades 9-12

Industrial Technology, Manufacturing

OSHA 10
Grades 9-12

Year 2 - Aerospace / Advanced Manufacturing

Aerospace/Advanced Manufacturing A

OSHA 10, OSHA 30
Grades 10-12

Aerospace/Advanced Manufacturing B

OSHA 10, OSHA 30
Grades 10-12

Aerospace/Advanced Manufacturing C

OSHA 10, OSHA 30,
Core Plus Aerospace,
Grades 10-12
Dual Credit

Year 3 - AJAC Youth Apprenticeship Preparation

Engineering Drawing 103

OSHA 10, OSHA 30
Grades 11-12

Precision Machining 101

OSHA 10, OSHA 30
Grades 11-12

Precision Machining 102

OSHA 10, OSHA 30,
Core Plus Aerospace, AJAC Youth
Apprenticeship Program
(Lindbergh HS)
Grades 11-12



Industrial Technology

(Yearlong course for Grades 9-12)

Students learn foundational skills like reading plans and safety and work towards their OSHA 10 safety certification. Students:

- Begin with shop safety and learn to read project plans for simple machine builds.
- Progress to hands-on projects and learn to be proficient with materials, tools, composites, 3D printing, assembly and more.
- In manufacturing learn market and product research and development, materials analysis, and more with an emphasis on applied math and physics.

Core Plus Aerospace & Advanced Manufacturing

(Yearlong course for grades 10-12)

Students learn the skills needed to gain employment for an entry level aerospace or manufacturing position after graduation. Students:

- Engage in hands-on learning that simulates a production floor, with safety in mind.
- Learn measurement, print reading, electricity, corrosion, FFA regulations, work readiness, and more.
- Can earn OSHA 10/30 certification, Core Plus Aerospace certificate, and college credit through CTE Dual Credit.

AJAC Youth Apprenticeship Preparation

(Yearlong course for grades 11-12)

This course provides students equitable, career-oriented skills that lead to family-wage careers after high school. Students:

- Build knowledge and skills in manual and precision machining, and technical drawings.
- Learn skills like reading specifications and schematics, tolerances, specification, fabrication, and use of tools like drill press, and lathes.
- Upon completion, students may be eligible for interview/hire or full apprenticeship programs and will finish a Washington State recognized youth apprenticeship preparation program.

[Learn more](#)

BY THE NUMBERS

3

PROGRAMS

Lindbergh High School's program was launched in 2013

Renton High School's program was launched in 2017

Hazen High School's program was launched in 2017

7

CORE PLUS AEROSPACE
BOEING MANUFACTURING
INTERNS IN 2023

146

CORE PLUS
AEROSPACE
STUDENTS

enrolled in 2023-24

10

students competed
at the SkillsUSA
Assembler Competition
in 2023

25+

GRADUATES HIRED BY
BOEING SINCE 2021

TESTIMONIALS

“The Core Plus model is so successful because high school staff work closely with college and industry partners to create a seamless progression of learning experiences so that students graduate high school with the skills necessary to continue their post-secondary journey in a family wage career.”

KEVIN SMITH

CTE Director at the Renton School District

“The Renton School District collaborates closely with industry professionals to ensure that Core Plus Aerospace students acquire the essential skills and experiences needed to thrive in various entry-level manufacturing career paths.”

KRISTINA YOUNG

Academic Pipelines Lead for the Boeing Workforce Development Team

“The Core Plus Aerospace curriculum helps students because it’s so in-depth. I can completely set them up to walk into a manufacturing job. The benefit to students is just amazing and it’s making a huge change.”

JAY TONNESLAN

Core Plus Aerospace Instructor at Lindbergh High School



“My Core Plus Aerospace experience was amazing. It really builds character and teaches skills like how to use tools, read blueprints, and more. It excites me that I’ve already made a step into having a career and know that I can do bigger things as I continue working.”

JASMINE LEHAL

Assembler/Installer at The Boeing Company and 2022 Lindbergh High School graduate



EXPANDED OPPORTUNITIES

Dual Credit: The Renton School District articulates with:

- [Renton Technical College](#) - IPT 104 Introduction to Assembly (4.0 credits)
- [Everett Community College](#) - MFG T 100 Preparation for Success and Safety (5.0 credits)

Work-Based Learning: High School students are encouraged to apply for the paid [Core Plus Aerospace Manufacturing Internship](#) hosted by Boeing. The internship provides hands-on manufacturing training and skills development, job shadowing, a team innovation challenge, employability skills training, and career preparation.

Postsecondary Opportunities: [120+ community and technical college programs](#) and other Manufacturing Futures partners provide opportunities for high school graduates to build on skills gained through Core Plus Aerospace. The Renton School District partners closely with [Renton Technical College](#) and [Everett Community College](#) to provide CTE dual credit for Core Plus Aerospace.



Early Career Options: Renton School District students who complete Core Plus Aerospace are eligible for the [Boeing Pre-Employment Training Program \(BPET\)](#). This accelerated hiring process allows them to move directly to the job offer stage for certain entry-level positions. Once employed, they will have multiple opportunities for upskilling and access to Boeing's Learning Together program, which helps pay for college.

CORE PLUS AEROSPACE STUDENT DEMOGRAPHIC INFORMATION

	23-24	22-23	21-22
Renton School District	146	137	152
Male	126	126	129
Female	19	11	23
Students w/ Disabilities	11	7	1
Hispanic	42	37	43
Non-Hispanic	104	100	109
American Indian	4	5	2
Asian	33	35	34
African American	26	25	6
Pacific Islander / Native Hawaiian	3	1	1
White	28	23	27

