



GAIN REAL-WORLD SKILLS AND EXPLORE CAREERS

Learn a variety of new skills while gaining valuable experience through Core Plus Aerospace.

The aerospace industry uses standardized manufacturing that involves specifications, part traceability, and quality assurance. Understanding the standardized process of aerospace manufacturing will benefit students interested in all areas of manufacturing.

Through this unit, students learn to identify and practice the culture of **Quality Management Systems (QMS)** and write and analyze the **Standard Operating Procedures (SOPs)** necessary to promote efficiency, quality, safety, and customer satisfaction.

WITH YOUR SKILLS ANY PATHWAY IS POSSIBLE

1

Future Opportunities:

- Certificate and degree programs
- Earn and learn programs
- A job in manufacturing

2

What kind of credits can you earn?

Depending on your district, you can earn math, science, English, Career and Technical Education (CTE), and elective credits.

Pay Scale:

Average annual salary for manufacturing employees in Washington: \$88,000

Skills you will learn:



SAFETY



MATH



TECHNICAL
SKILLS



More Info:

www.coreplusaerospace.org

Developed by industry, the Core Plus Aerospace curriculum includes 1,080 hours of instruction and hands-on learning opportunities that prepare Washington high school students for aligned post-high school training and college programs, apprenticeships, and manufacturing careers. Core Plus Aerospace students graduate with options.

Students learn the common elements and practice the culture of Quality Management Systems (QMS), which document and analyze every step of a system so as to improve quality and increase customer satisfaction. Students write and analyze Standard Operating Procedures (SOPs), a set of instructions or steps for completing job tasks that help maintain a safe work environment. In addition, students learn about the ISO 9000 family of QMS standards that help organizations ensure they meet customer and stakeholder needs, as well as statutory and regulatory requirements.

DEVELOPING REAL-WORLD SKILLS

Among many skills, students learn to:

- Define QMS and describe the “enterprise level” of QMS.
- Explain the hierarchy of a manufacturing production order.
- Identify and document a standardized process in their environment.
- Demonstrate knowledge of SOPs.
- Define Root Cause Analysis in fundamental terms.

CONNECTING TO WASHINGTON STATE LEARNING STANDARDS

Among many standards covered, Core Plus Aerospace students learn to:

- Reason abstractly and quantitatively.
- Summarize, represent, and interpret data on a single count or measurement variable.
- Interpret differences in shape, center, and spread in the context of the data sets, accounting for possible effects of outliers.
- Make inferences and justify conclusions from sample surveys, experiments, and observational studies.

EXPLORE MORE

Learn more about the curriculum and hear from Core Plus Aerospace teachers, students, and graduates employed in industry and attending college programs across Washington state.



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