

2021-2022 ANNUAL REPORT





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About Core Plus

Core Plus is a two-year program for high school students, letting them earn credits while learning, hands-on, the skills needed to pursue careers in aerospace, construction, maritime and other industries.

Core Plus maritime, construction and aerospace programs are designed with purpose, to inspire students, motivate them and ultimately, equip them with the knowledge, skills and confidence they need to land well-paying and respected careers. Their futures really are limitless, and their options, endless; Core Plus grads have incredible opportunities here in Washington state, and even globally. Plus, our programs have direct ties to universities and the military, the apprenticeship system and the industries which hire our grads.

Letter from OSPI and Core Plus Sectors

A highlight for many students returning to classrooms in the 2021-22 school year was their in-person, hands-on learning program, Core Plus. The last two years have made providing hands-on learning challenging and we're thankful for teachers who continued to bring out the best in their students. We're also thankful to students and families for their commitment to learning hands-on skills that Core Plus programs provide.

Inside every student who enters a Core Plus program, lives untapped potential. Core Plus students can build airplanes, repair ships, or build homes for Washingtonians. They learn to use tools and machinery that they probably haven't seen before. Students collaborate with their teachers and peers, getting up-close and hands-on with intricate, intriguing projects. This is learning by doing.

Core Plus programs inspire students, motivate them and ultimately, equip them with the knowledge, skills and confidence they need to land well-paying and respected careers. Plus, Core Plus programs have direct ties to universities and the military, the apprenticeship system and the industries which hire Core Plus graduates. Industry has been a longtime supporter of Core Plus and provides work experiences, inspiring guest speakers, site tours and feedback on the curriculum so students learn exactly the skills industry needs.

In the 2021-22 school year, more students than ever were able to experience a Core Plus program. Here is some of what Core Plus accomplished last school year:

- More than 120 Core Plus Construction, Maritime and Aerospace programs taught students across Washington state in-demand skills.
- OSPI awarded more than \$1.5 million in grants to 54 schools to start, maintain or expand Core Plus programs in high school.
- More than 5,500 students learned the training, technical knowledge and life skills they need to land well-paying careers in the aerospace, maritime and construction industries.

The skills that Core Plus graduates learn are in demand and are highly transferable. They have incredible opportunities here in Washington state and even globally. Graduates will provide critical services and support economies throughout the state. We're excited to continue to work with educators and industry across the state, so more students experience a hands-on Core Plus program and have the opportunity to build their own futures.

Rebecca Wallace
Office of Superintendent of Public Instruction

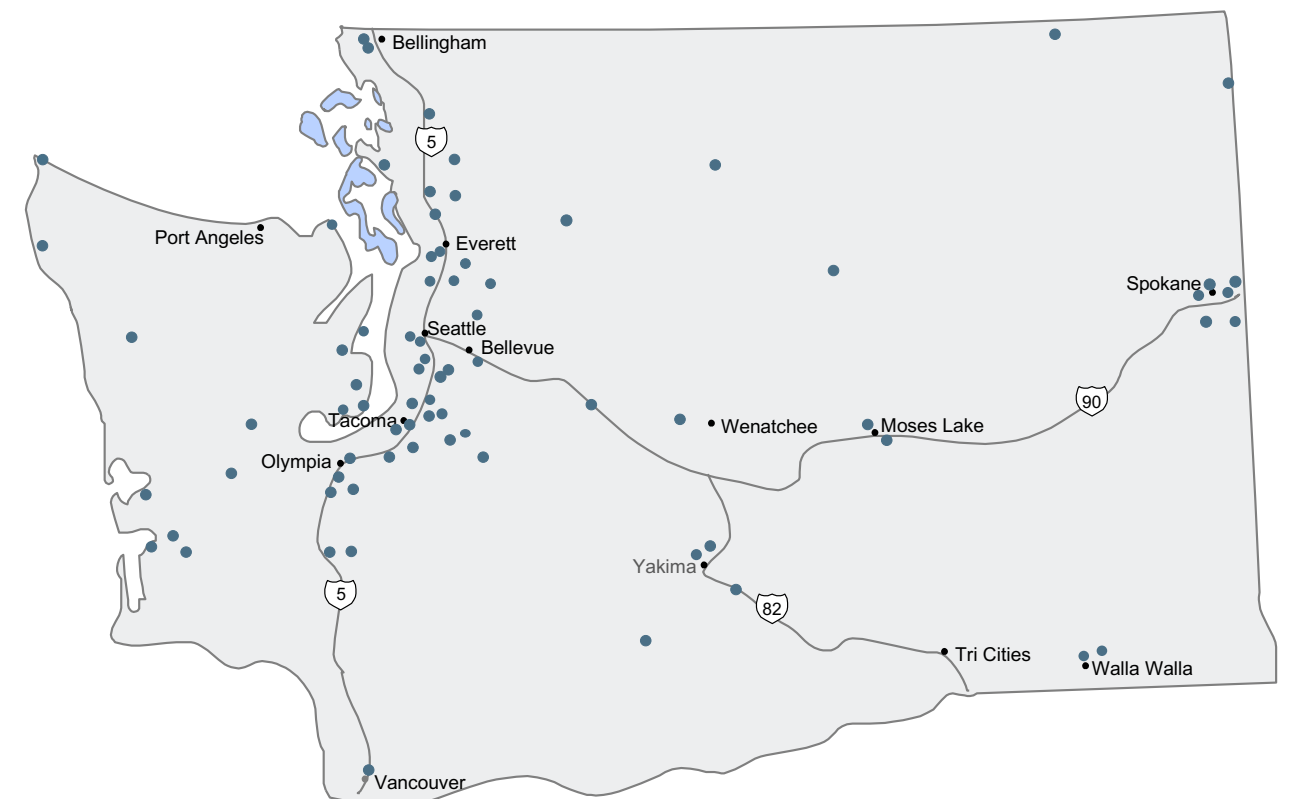
Essentia Rivera
The Boeing Company

Sarah Patterson
AGC Education Foundation

Tory Gering
Manufacturing Industrial Council



Locations of Core Plus Programs in Washington State



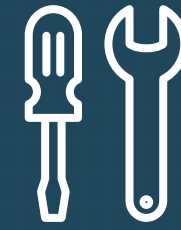
CORE PLUS BY THE NUMBERS



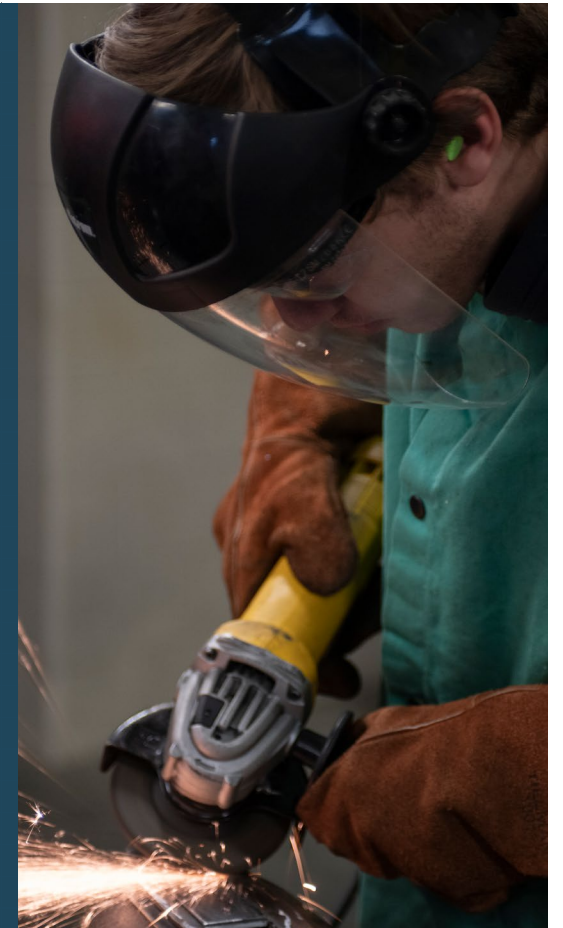
5,500+
students served by
a Core Plus program



120+ CORE PLUS
programs in high schools
and skills centers



\$1.5 MILLION+
in grant funding went to
partner high schools and
skills centers to support
Core Plus programs



10+
professional development
sessions for teachers



130+
instructors



School Spotlights



Lindbergh High School is Building Advanced Manufacturing Champions

The Renton School District produces champions. The past three champions of the SkillsUSA Washington Manufacturing Assembler Competition have been Renton School District students. Two are from Lindbergh High School in Renton.

Hosted by Boeing, the statewide competition features a hands-on assembly project that tests the skills students learn in the Core Plus Aerospace curriculum, such as drilling, riveting and print reading. Competitors also participate in resume reviews and mock interviews.

“My Core Plus Aerospace class was very helpful in exploring a career,” said Jasmine Lehal, the winner of the 2022 SkillsUSA competition and a 2022 graduate of Lindbergh High School. “I got to work hands-on and learn skills that allow me to work in many different fields. It’s a great opportunity!”

Moyaak “MuMu” Chuol, a 2019 graduate of Lindbergh High School and the winner of the SkillsUSA competition in 2019, said that his Core Plus Aerospace class at Lindbergh High School opened his eyes to what he can do.

“Core Plus Aerospace graduates are ready to pursue apprenticeships, industry certificates, college degrees and more,” Moyaak said.

“The Core Plus Aerospace class at Lindbergh High School motivated me and equipped me with the knowledge to graduate with options and prepared me for a career I enjoy.”

Both Jasmine and Moyaak also completed the Core Plus Aerospace summer internship and were hired by Boeing after graduating high school. Along with both being champions, graduates of Lindbergh and Boeing employees, Jasmine and Moyaak were taught by Creed Nelson. Creed was one of the first instructors to use the Core Plus Aerospace curriculum and is a valuable resource in helping shape the curriculum and promoting it in the Renton community. At the end of the 2021-22 school year, Jasmine and three more students from Creed’s class were celebrated at an event at Lindbergh High School after being extended job offers to join Boeing.

“The skills I learned in Mr. Nelson’s class, like interviewing, hands-on and communications skills, will help me reach my career goals”, Jasmine said. “I’m grateful for Mr. Nelson’s Core Plus Aerospace class that taught me skills I’ll use throughout my life. I encourage students to take Core Plus classes because they help you find a career that interests you.”



Helping Students Build Their Full Potential

Every student in David Trout's Core Plus Construction class at Pierce County Skills Center (PCSC) graduates with opportunities.

"The demand for students with construction skills right now is super high," David said. "Every single one of my students, regardless of background has the opportunity to earn a great living wage doing something they love."

David has been teaching at PCSC for 11 years and has been involved with Core Plus Construction since its inception. Core Plus Construction students spend half their day at PCSC and come from 10 school districts: Bethel, Eatonville, Fife, Franklin Pierce, Orting, Steilacoom, Sumner, Tacoma, University Place and White River.

Students learn construction skills like safety, electrical and plumbing, as well as transferable skills like project management, math and English in a hands-on, project-based classroom setting. Along with an indoor shop area, David's students work on projects at an outdoor shop that simulates a job site. Core Plus Construction students also have the opportunity to earn an industry recognized certificate

that shows what they know and can do.

"The Core Plus Construction certificate is backed by the Associated General Contractors of Washington and lends immediate credibility to the program," David said.

The interest in Core Plus Construction at PCSC has been growing every year. For the 2022-23 school year the class is full and has a waiting list. David said the growth is a direct result of the OSPI grants and the support of the construction industry. Small and large national contractors are engaging with David's program and making connections with students. It's these connections that inspire Core Plus Construction students to go on to respected and well-paying construction careers after graduation or to college to become a project engineer.

"I love being able to work side by side and mentor students that come from all different backgrounds," David said. "It's rewarding to see a student understand their full potential and turn that potential into a reality."



Exploring a Maritime Future By the Water

Students in Wes Fridell's Core Plus Maritime program get hands-on learning and see their maritime future every day.

"Core Plus Maritime at Northwest Career and Technical Academy is unique because students have opportunities to visit industry partners and walk down to the waterfront every day," Wes said. "In this program, the activity is continuous and students get to come in and learn skills that are in-demand in the maritime industry."

Northwest Career and Technical Academy provides free technical and professional training for high school juniors and seniors. It's a consortium of six Skagit County school districts (Anacortes, Burlington-Edison, Concrete, Mount Vernon, La Conner and Sedro-Woolley), two Whatcom County school districts (Bellingham and Meridian). The Core Plus Maritime program is located in Anacortes, steps from the Cap Sante Marina.

Core Plus Maritime students learn valuable skills that can lead to rewarding careers in a respected industry that plays a critical role in Washington state's economy. Students learn how to use hand and power tools, navigational skills, operate boats, and more. Students also learn transferable skills like safety, math, interview techniques

and communications. Core Plus Maritime programs also have industry partnership that help students become work-ready after graduation. Core Plus Maritime industry partners provide internships to students, hire graduates, host field trips and more.

"The maritime industry is screaming for new employees because of a shortage of workers in general and the pipeline needs to be refilled," Wes said. "There has never been a time like right now where everyone is looking for new, work-ready employees. Core Plus Maritime students have an exciting window of opportunity."

Post graduation opportunities for Core Plus Maritime students are vast and diverse, Wes added. Graduates can go onto marine servicing, work for a yacht builder or boat designer or work for the Washington State Ferries. A recent graduate is currently pursuing his captain's license and working on an inter-island ferry out of the San Juan Islands.

"In Washington state the maritime industry is what we are all about," Wes said. "Core Plus Maritime offers students a way to explore a career that pays well and is exciting. We can make them ready for that and they'll have a whole lot of fun doing it."



Industry Spotlights



Photos provided by Aviation Technical Services

Local Manufacturing Industry Partners with Skills Center to Grow its Own

The need for workers with advanced manufacturing skills is growing, which means incredible opportunities in Washington state. Partnerships between the manufacturing industry and local high schools and skill centers open doors for students in aerospace.

Aviation Technical Services (ATS) with locations in Everett, Moses Lake and nationally, has developed a partnership with Sno-Isle TECH Skills Center in Everett to provide students opportunities to explore aviation maintenance careers, learn, and use their hands-on skills.

“There is an ongoing need in aviation for graduates with advanced manufacturing skills. The industry has the capacity to grow and provide great career paths for graduates with these technical abilities,” said Seth Jacobsen from ATS. “ATS is proud to have strong connections with Sno-Isle Tech and other local partners to help build a successful workforce.”

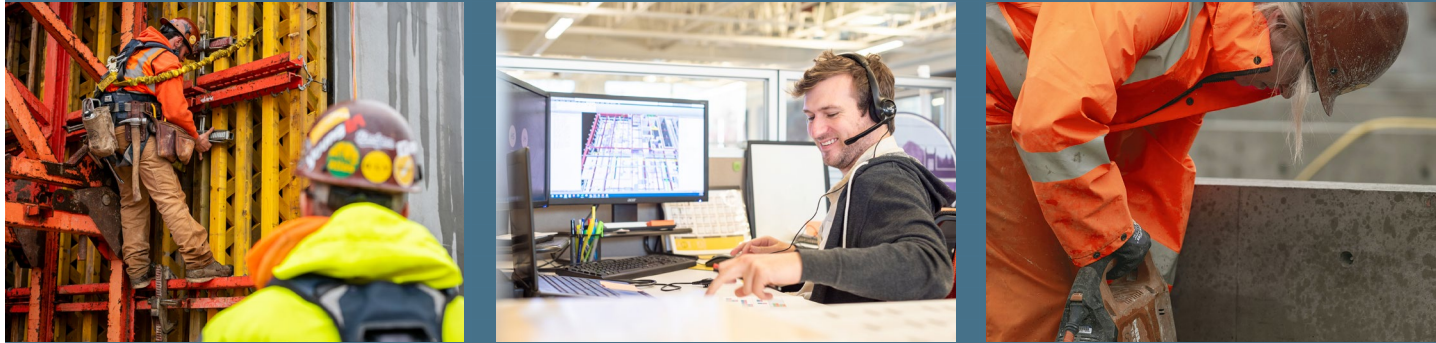
ATS is the largest third-party, single-site transport aircraft maintenance, repair and overhaul provider in North America and one of the largest aerospace employers in Washington state. Along with its partnership with Sno-Isle TECH, ATS supports Everett Community College’s

(EvCC) Aviation Maintenance Technology program. ATS previously donated a 767 rudder and performed work on an EvCC helicopter and airplane.

ATS has hired Core Plus Aerospace graduates straight out of high school and offers continuing training via its own apprenticeship program. Upon completion, ATS apprentices may choose to work toward certification as an FAA Certificated Repairman or Mechanic. ATS has hired over 100 apprentice mechanics so far this year and expects to continue on this trajectory in the coming months. Many of these new apprentices are graduates of Sno-Isle’s Core Plus Aerospace program. Sno-Isle graduates are a perfect fit for many apprentice mechanic positions that ATS is looking to fill because they are taught practical, hands-on skills that are immediately useful on the job.

“It (the Sno-Isle Aviation Course) is grounded well in what we do here at ATS,” said Jonas Brimhall, a recent graduate who works at ATS. “The class is a really professional setting. It’s less like a high school class and more like a work environment.”

ATS and the local education community are helping students visualize their futures, learn advanced manufacturing skills by doing and land well-respected careers.



Photos provided by GLY Construction

Building the Future of the Construction Industry

The excitement for Core Plus Construction graduates is building for GLY Construction.

“Core Plus Construction graduates will represent an unprecedented group of students who have an understanding and contextualized knowledge of our industry,” said Jane Mounsey, human resources director at GLY. “Core Plus Construction will inspire students with lots of different interests to consider a career in construction.”

GLY has a more than 50-year history in the Pacific Northwest and is one of the largest locally owned general contractors in the Puget Sound Region. Its projects include Overlake Medical Center, Stanwood-Camano YMCA and the renovation of the University of Washington’s Bagley Hall classroom and lab.

GLY has been engaged with Core Plus Construction through the AGC Education Foundation’s workforce development committee for more than five years. GLY provided feedback and helped develop the curriculum so students get the hands-on training in exactly the skills the industry needs. Students with construction skills are in demand and can find well-paying, respected careers in Washington and even globally. According to a survey by

the Associated General Contractors of America and technology vendor Autodesk of the AGC’s members in July and August 2022, 93 percent of construction firms currently have job openings, and nearly as many, 91 percent, are having difficulty filling those open positions—especially jobs requiring skilled craft workers.*

“The demand for workers with construction skills is extraordinarily high,” Jane said. “Whether a student wants to go into the trades after high school or go to college to be a project engineer, there is a place for them in our industry.”

GLY has plans to engage more with Core Plus Construction instructors and students including jobsite tours, mentoring instructors, student internships and classroom visits.

“Construction is a fulfilling and gratifying industry to be in because you’re building these wonderful buildings that will serve the community for years to come,” Jane said. “It’s incredibly exciting for students to have exposure to all of that from Core Plus Construction. I’m grateful to the instructors who are teaching our next generation of construction professionals.”

*<https://www.enr.com/articles/54737-agc-93-of-firms-need-more-workers-77-cant-find-anyone-qualified>



Core Plus Maritime Industry Partner—Wooldridge Boats

As the maritime industry faces a critical shortage of workers, industry leaders are looking to local high schools and skills centers to find the next generation of maritime experts.

One of the industry partners for Core Plus Maritime is Wooldridge Boats. Wooldridge Boats is a family owned and operated business and has been designing, building and selling boats since 1915.

“There is a lot of self-gratification to be able to fix things with your hands, to build things, and there’s a lot of pride that comes out of that,” said Grant Wooldridge, vice president at Wooldridge Boats. “Whether students are going to go into the industry or not, I think for someone’s own self-confidence in life, I think it’s a super important skill.”

Core Plus Maritime industry partners like Wooldridge Boats have the opportunity to support students by hiring graduates, mock job interviews, field trips, participate in a curriculum advisory committee, job site tours for instructors and more.

Wooldridge Boats also provides aluminum boat kits called River Rats at a reduced price

to Core Plus Maritime instructors. The boat kit allows students to see all the trades that go into boat building. Core Plus Maritime instructors also have the opportunity to work directly with Wooldridge Boats to make accommodations to the kits so they work best for their classrooms and communities.

One former Core Plus Maritime student that Wooldridge Boats hired is Nathan, a graduate from Lindbergh High School. Nathan is now a finisher at Wooldridge Boats. Nathan said he encourages students to take Core Plus Maritime because it really opens your eyes and it lets you look at things in a different way.

“Nathan’s attitude and character are great,” Grant said. “The way he picks things up because of the way he was taught in his shop class is beneficial.”

Core Plus Maritime graduates like Nathan are in high demand. Core Plus Maritime students graduate high school qualified for a respected career that pays well and provide important services that support a local Washington state business.



Launching Students' Careers In Aerospace

Core Plus Aerospace sparked an interest in advanced manufacturing and led to careers for three recent high school graduates.

"Taking the Core Plus class helps high school students really find their ideal career," said Tanzania Mowatt-Burleson, a 2022 graduate from the Seattle Skills Center at Rainier Beach High School and a 2022 Core Plus Aerospace Boeing summer intern. "It really gives you a sense of choice and identity of what you want to do in your actual life."

The hands-on skills that Tanzania learned in her Core Plus Aerospace class at Seattle Skills Center prepared her for her summer internship and the guest speakers helped her visualize her experience at Boeing.

"A lot more students should take Core Plus Aerospace," Tanzania said. "It puts your foot in the door of really great careers. It gave me goals to look forward to."

After completing the summer internship, Tanzania was offered and accepted a position at Boeing as an Assembler/Installer. Like Tanzania, Ethan Patze and his brother Kadem were also offered and accepted positions at Boeing after completing Core Plus Aerospace at Lynnwood High School and participating in the summer internship. Ethan's career goal is to be a leader at Boeing and Kadem's career goal is to be an aerospace engineer.

"Core Plus Aerospace in high school was awesome," Kadem said. "It was the most fun class I had in high school, taught me really cool skills, and gave me a good opportunity to succeed in things I wanted to do after high school."

Ethan said that along with learning to use tools, he also learned math, science, English, coding, computer-aided design and 3D printing skills in his Core Plus Aerospace class.

"I encourage all my friends to take Core Plus Aerospace," Ethan said. "I've learned a lot of manufacturing skills that I'll use in my career. It's a great program. It's awesome."



Grad & Student Spotlights

Building a Construction Community



Olivia LeCompte is not only learning in-demand, transferable skills in Core Plus Construction, but making industry connections and helping build a community.

“I came into Core Plus Construction last year not knowing much,” Olivia said. “I didn’t know the difference between types of plywood or how to use a skilsaw. Now I’m doing projects for the fire department, laying out rafters and building sheds.”

Olivia is currently a senior at Graham-Kapowsin High School in the Bethel School District and taking Core Plus Construction at the Pierce County Skills Center. Along with learning construction skills such as electrical, plumbing, how to safely and efficiently use tools and read a

tape measure, Olivia has learned transferable skills like communication and teamwork.

“Taking Core Plus Construction is really beneficial for students,” Olivia said. “Students can expand their knowledge and experience of a trade, make connections and learn skills for a future career in construction. There are just countless opportunities to learn new skills that you’ll use later. You’re making connections and opportunity for yourself.”

Olivia’s goal is to pursue a degree or certificate and a career in construction management or become a journeyman in a trade. Construction contractors give presentations to Olivia’s class and she has worked with experienced professionals in different trades. All these opportunities help Core Plus Construction programs like the one at Pierce County Skills Center equip high school students with the training, technical knowledge and life skills they need to land well-paying trade or management careers in construction.

Along with enjoying the hands-on activities and experiences in Core Plus Construction class, Olivia enjoys the sense of community. Olivia said that in Core Plus Construction students find community with each other and have teachers that really want them to succeed in career and life.

“We are creating a community and culture,” Olivia said. “We’re building projects together. This is what makes Core Plus Construction fun! Everyone wants to be here, and everyone wants the best for each other.”

Building Skills for a Maritime Career



For Jaydn Lee, taking Core Plus Maritime is helping him build skills for a career goal that he’s been pursuing since he was a young kid.

“I chose to pursue a career in maritime because my family has been in fishing for a long time and I started when I was nine,” Jaydn said. “I enjoy being in nature and being around the water.”

Jaydn is currently a junior at Sedro-Woolley High School and takes Core Plus Maritime at Northwest Career and Technical Academy in Anacortes. Northwest Career and Technical Academy provides free technical and professional training for high school juniors and seniors. It’s a consortium of six Skagit County

school districts (Anacortes, Burlington-Edison, Concrete, Mount Vernon, La Conner and Sedro-Woolley), two Whatcom County school districts (Bellingham, and Meridian).

Jaydn said taking Core Plus Maritime is helping him reach his career goal to own a boat and fish in the bay because it’s giving him hands-on opportunities like working on engines and on boats. Jaydn is also gets to put his teamwork and communications skills to work on dock walks at the Cap Sante Marina that’s steps from his Core Plus Maritime classroom.

“My Core Plus Maritime experience is fun because we get to work hands-on,” Jaydn said. “I’ve learned to work on outboards, woodworking, how to operate machines like a chop saw, and more. Pretty much everything we do is hands-on.”

Core Plus Maritime provides students with a foundation for their future success. It gives students who love to work with their hands a place to learn the technical skills they’ll need for success after high school.

“Taking Core Plus Maritime helps high school students that like to work hands-on,” Jaydn said. “It’s very welcoming and my teacher Mr. Fridell is very nice to everyone and is always joyful.”

To learn more, visit:



coreplusaerospace.org



coreplusconstruction.org



coreplusmaritime.org
