

Institution Overviews for each of the 6 member maritime training institutions that comprise the Alaska Maritime Education Consortium.

1. Alaska Vocational Technical Center (AVTEC) – Seward, AK
2. University of Alaska Southeast, Ketchikan Campus – Ketchikan, AK
3. University of Alaska Anchorage, Kenai Peninsula College at Kachemak Bay Campus, Homer, AK
4. University of Alaska Anchorage, Kodiak College – Kodiak, AK
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6. University of Alaska Fairbanks, Bristol Bay Campus – Dillingham, AK

MARITIME ADMINISTRATION
U.S. Department of Transportation
Center of Excellence (CoE) for Domestic Workforce Training and Education

**Alaska Maritime Education Consortium –
Alaska Vocational Technical Center (AVTEC) – Seward, AK**

The Secretary of Transportation redesignates the Alaska Maritime Education Consortium (AMEC), led by the Alaska Department of Labor and Workforce Development (DOLWD) on behalf of the Alaska Maritime Training Center at AVTEC in Seward, as a Center of Excellence for Domestic Maritime Workforce Training and Education (CoE). AVTEC serves as Alaska's state-run postsecondary vocational maritime training facility, operating as the core engine for USCG/STCW-compliant deck, engine, and safety disciplines across 34,000 miles of Alaska coastline.

Operational Footprint & Assets

- **Full-Mission Bridge Simulators & Radar Complex:** Operates three world-class Transas/Wärtsilä full-mission bridge simulators, an advanced computer-based navigational laboratory, and an industry-recognized marine fire safety training field and live-burn simulator.
- **USCG/STCW Credentialing Pipeline:** Delivers over 40 USCG-approved courses including Master/Mate 200 Ton, Master 100 Ton / OUPV, Able Seaman (40-hr), QMED-Junior Engineer, Towing Assistance, ECDIS, GMDSS, ARPA, and Search & Rescue.
- **Polar Code Operations Leadership:** Operates one of the only maritime training programs in the United States fully approved for comprehensive IMO Polar Code Operations (ALAVTC-808 Advanced and ALAVTC-820 Basic Polar Code Operations) for mariners navigating ice-covered Arctic waters.
- **Ashore Marine Repair Complex:** Houses a comprehensive Marine Vessel Maintenance and Repair facility delivering training for Shipyard Competent Person, Marine OSHA, diesel heavy equipment, troubleshooting gauges, and vessel hydraulics.
- **Distance Learning Integration:** Partners with Northeast Maritime Online (NEMO) to deliver hybrid coursework, combining online academic instruction with Seward-based hands-on practical assessments.

Workforce & Regional Impact

- **High Student Throughput & Completion:** Trained 3,601 students over a five-year period (averaging 720 students annually) with a 98.7% program completion rate (3,557 completers).
- **USCG Certification Output:** Issued 3,767 course completion and USCG certificates over five fiscal years, including 19 QMED credentials.
- **High Post-Graduation Wage Growth:** State analysis reveals 71% to 75% employment rates within 12 months of graduation, with aggregate alumni wages increasing up to 16% post-completion to \$17.89M.
- **Young Mariner & "Senior Year to Career" Pathways:** Enables high school seniors in the Young Mariner Training Program to receive USCG credentialing and nautical skills training

prior to high school graduation, entering lucrative maritime careers immediately upon earning their diploma.

- **Registered Apprenticeships & Industry Partners:** Partners directly with Calista Corporation and the USDOL Alaska Office of Apprenticeship on Registered Apprenticeship Programs across deck, engine, and galley departments, guided by dedicated Industry Advisory Committees.

Strategic Outlook

Guided by the Alaska Maritime Workforce Development Plan and its 2020–2025 Action Agenda, AVTEC’s Alaska Maritime Training Center maintains a vital workforce pipeline powering Alaska’s blue economy, state ferry system (AMHS), commercial towing, and Arctic fleet operations. By embedding employability standards and offering specialized Polar Navigation courses, AVTEC ensures long-term national security readiness and rapid workforce scaling along Alaska's strategic maritime corridors.

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**Alaska Maritime Education Consortium –
University of Alaska Southeast, Ketchikan Campus – Ketchikan, AK**

The Secretary of Transportation redesignates the Alaska Maritime Education Consortium (AMEC), incorporating the University of Alaska Southeast Maritime Training Center in Ketchikan, as a Center of Excellence for Domestic Maritime Workforce Training and Education (CoE). UAS-Ketchikan serves as a premier maritime degree and USCG certification node, offering Associate of Applied Science degrees, QMED multi-skilled engine tracks, and advanced bridge simulation.

Operational Footprint & Assets

- **Wärtsilä Full-Mission Bridge Simulator:** Features a recently upgraded Transas/Wärtsilä Full Mission Bridge Simulator and navigation laboratory meeting international STCW standards.
- **Comprehensive Deck & Engine Tracks:** Delivers an A.A.S. in Marine Transportation, Master/Mate 200 Ton, Apprentice Mate (Steersman), Able Seaman, Fast Rescue Boat, Advanced Fire Fighting, ECDIS, ARPA, and QMED-Oiler programs.
- **Qualified Member of the Engine Department (QMED) Program:** Co-developed an Occupational Endorsement Certificate (OEC) for QMED Maritime Multi-Skilled Workers in direct partnership with Vigor Alaska Shipyard and the Alaska Marine Highway System (AMHS).
- **Specialized Shipyard Construction Math:** Delivers customized construction math courses developed specifically for local shipyard layout, lofting, and steel fabrication workers.

Workforce & Regional Impact

- **High Student Volume & Completion:** Served 2,345 participants over five years with 2,179 completers (92.9% completion rate).
- **Robust Credential Output:** Issued 528 USCG Certificates of Completion and 195 QMED Certificates over the five-year monitoring period.
- **Proven Employment & Wage Growth:** Achieved 80% to 82% post-graduation employment in afloat pathways, with total alumni wages increasing by up to 81%.
- **Vigor Shipyard & AMHS Internships:** Partnered with Vigor Alaska Shipyard on an employer-sponsored Registered Apprenticeship program, while partnering with AMHS to provide engine room sea-time internships aboard state ferries.
- **Broad Regional Industry Engagement:** Collaborates closely with the Southeast Alaska Sea Pilots Association, Allen Marine Tours, AMAK Towing, and USCG Base Ketchikan to fulfill regional maritime workforce needs.

Strategic Outlook

As Southeast Alaska's primary maritime hub, UAS-Ketchikan powers the state ferry system, cruise support, regional towing, and shipyard repair industries. Its ability to articulate non-credit USCG licenses into full college credit associate degrees provides a permanent, stackable career ladder for mariners operating throughout Pacific Northwest and Arctic shipping.

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**Alaska Maritime Education Consortium –
University of Alaska Anchorage, Kenai Peninsula College at Kachemak Bay Campus,
Homer, AK**

The Secretary of Transportation redesignates the Alaska Maritime Education Consortium (AMEC), incorporating UAA Kenai Peninsula College at Kachemak Bay Campus in Homer, as a Center of Excellence for Domestic Maritime Workforce Training and Education (CoE). Kachemak Bay Campus delivers specialized mariner license preparation, vessel maintenance, and marine fabrication directly supporting the vibrant Homer marine trades cluster and Cook Inlet maritime economy.

Operational Footprint & Assets

- **Maritime Technology Training Center:** Equipped with specialized CAD design suites, DC electrical laboratories, gel coat repair stations, and marine welding facilities tailored for vessel construction.
- **USCG License Prep Array:** Delivers USCG-approved Master 100 Ton / OUPV courses, Able Seaman training, Coastal Navigation, and Radar Observer modules.
- **Niche Technical Catalog:** Offers targeted coursework in outboard motor maintenance, dc electric for marine vessels, marine welding, gel coat repair, net mending, and deckhand skills.
- **Articulation Agreements:** Collaborates with UAS-Ketchikan to offer structured academic pathways connecting USCG credentials to occupational endorsements and associate degrees.

Workforce & Regional Impact

- **Enrollment & Completion Statistics:** 546 participants enrolled over five years with 517 program completions (94.7% completion rate).
- **Credential Attainment:** Issued 48 USCG Master 100 Ton credentials and 34 AWS D1.1 Structural Code Welding Certifications over the reporting period.
- **Homer Marine Trades Association Synergies:** Collaboratively offers "just-in-time" short-courses, workshops, and high school dual-enrollment in partnership with local vessel haul-out, repair, sales, and charter organizations.
- **Joint Scholarship Alignment:** Partners with the Homer Marine Trades Association to jointly offer scholarships for secondary and postsecondary students entering maritime technical fields.

Strategic Outlook

Co-located at the nexus of Cook Inlet maritime commerce and marine construction, Kachemak Bay Campus acts as an essential catalyst for shoreside technical skill alignment. Its close integration with local shipyards and marine trades ensures rapid technical response capabilities and workforce adaptability during regional supply chain shifts.

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**Alaska Maritime Education Consortium –
University of Alaska Anchorage, Kodiak College – Kodiak, AK**

The Secretary of Transportation redesignates the Alaska Maritime Education Consortium (AMEC), incorporating the University of Alaska Anchorage Kodiak College, as a Center of Excellence for Domestic Maritime Workforce Training and Education (CoE). Kodiak College provides critical marine service technology, vessel maintenance, and welding credentials supporting one of the nation's top commercial fishing ports and critical Gulf of Alaska maritime operations.

Operational Footprint & Assets

- **Marine Service Technology (MST) Complex:** Operates dedicated educational laboratories equipped with industry-standard marine service tools, diagnostic gear, and vessel engine test benches.
- **ABYC & AWS Certification Center:** Delivers accredited training leading to American Boat and Yacht Council (ABYC) Marine Service Technician credentials and American Welding Society (AWS) certifications.
- **Structural Marine Welding Facility:** Focuses specifically on AWS D1.1 structural steel and aluminum welding codes essential for vessel haul-out, hull repair, and shipyard fabrication.
- **Replication Hub for AMEC:** Serves as the origin node for the Marine Service Technology curriculum, designed to be shared and replicated across Prince William Sound College and UAS-Ketchikan.

Workforce & Regional Impact

- **Multi-Year Student Volume:** Enrolled 646 students over five years with 627 program completers (97% completion rate).
- **Industry Certificate Output:** Awarded 309 AWS Welding Certificates and 76 ABYC Marine Service Technician credentials over a five-year monitoring period.
- **Kodiak High School CTE Pipeline:** Partnered with Kodiak High School to directly integrate 30 high school students into dual-credit marine technology pathways in Spring 2022.
- **Commercial Harvesting Support:** Provides critical technical training for self-employed boat owners, fishing vessel captains, & shoreside maintenance shops across the Kodiak Archipelago.

Strategic Outlook

Co-located near major Coast Guard and commercial port facilities, Kodiak College plays a vital role in maintaining shoreside vessel repair infrastructure and industrial fabrication readiness. Its strategic focus on ABYC standards and marine welding ensures the fleet readiness of transport, commercial harvesting, and regional defense support vessels operating in the Gulf of Alaska.

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**Alaska Maritime Education Consortium –
University of Alaska Anchorage, Prince William Sound College – Valdez, AK**

The Secretary of Transportation redesignates the Alaska Maritime Education Consortium (AMEC), incorporating University of Alaska Anchorage Prince William Sound College in Valdez, as a Center of Excellence for Domestic Maritime Workforce Training and Education (CoE). Prince William Sound College delivers high-volume industrial safety, millwright technology, and emergency oil spill response credentials supporting the Sound, terminal operations, and regional maritime transportation.

Operational Footprint & Assets

- **Industrial Safety & Millwright Complex:** Features state-of-the-art laboratories certified for National Center for Construction Education and Research (NCCER) Millwright and Core industrial mechanic training.
- **HAZWOPER & Marine Safety Array:** Maintains comprehensive training setups for HAZWOPER Oil Spill Response, Confined Space Entry, and industrial safety.
- **High-Volume Technical Training:** Delivers non-credit and credit-bearing career tracks mapped to port maintenance, mechanical diagnostics, and shoreside maritime support industries.

Workforce & Regional Impact

- **High-Capacity Program Intake:** Served 6,710 enrolled participants over five years with 6,690 program completers (99.7% completion rate).
- **Critical Safety Certifications:** Issued 2,583 HAZWOPER Oil Spill Response certificates, 108 NCCER Millwright certifications, 13 NCCER Core certificates, and 41 Confined Space Entry credentials.
- **Substantial Post-Program Wage Gains:** State labor tracking shows graduate wage increases ranging from 110% to 222% post-completion in ashore technical pathways.
- **Critical Infrastructure Support:** Trains specialized technical personnel responsible for maintaining oil terminal facilities, port infrastructure, and emergency response fleets in Prince William Sound.

Strategic Outlook

Situated at the terminus of the Trans-Alaska Pipeline System, the college plays a crucial geopolitical role in energy transport, environmental response readiness, and port infrastructure maintenance. Its massive throughput in industrial safety and mechanical trade credentials ensures that critical marine terminal operations remain fully staffed and resilient against national security or environmental emergencies.

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**Alaska Maritime Education Consortium –
University of Alaska Fairbanks, Bristol Bay Campus – Dillingham, AK**

The Secretary of Transportation redesignates the Alaska Maritime Education Consortium (AMEC), incorporating the University of Alaska Fairbanks Bristol Bay Campus in Dillingham, as a Center of Excellence for Domestic Maritime Workforce Training and Education (CoE). UAF Bristol Bay Campus contributes vital regional technical instruction, rural outreach, and commercial fisheries workforce development across the Bristol Bay watershed and Western Alaska coastline.

Operational Footprint & Assets

- **Maritime Technical Program:** Delivers specialized entry-level fisheries pathways, vessel safety, and marine technical training tailored to rural mariners and commercial harvesters.
- **Hands-on Marine Systems Labs:** Provides specialized technical short-courses and hands-on labs in Marine DC Electrical Systems, Outboard Engine Maintenance and Repair, and Marine Refrigeration (RSW).
- **Flexible Evening Scheduling:** Courses in Marine Refrigeration, Outboard Repair, and Vessel Mechanics are specifically scheduled during evening hours to accommodate full-time commercial fishermen and shoreside processing personnel.
- **Cross-Agency Certifications:** Partners with the Alaska Sea Grant Marine Advisory Program (AMSE-MAP) and RACEJT (Zender Environmental) to issue recognized credentials in vessel safety and marine mechanics.

Workforce & Regional Impact

- **Targeted Rural Enrollment:** Served 248 students over five years across maritime afloat and ashore pathways, maintaining a 100% program completion rate.
- **Commercial Sector Employment:** Achieved post-graduation employment rates between 77% and 100% for afloat pathways and up to 85% for ashore pathways.
- **Indigenous & Rural Access:** Serves resident commercial fishing fleets and Alaska Native communities across Dillingham and surrounding coastal villages, offering localized instruction that lowers barriers to technical training.
- **High School Career Exploration:** Coordinates entry-level fisheries pathways and vessel safety exploration tailored for secondary students across the Bristol Bay Borough School District.

Strategic Outlook

UAF Bristol Bay Campus serves as an essential regional node within AMEC, strengthening the

domestic supply chain for the nation's largest wild seafood harvest. By expanding stackable technical credentials and local vessel maintenance capabilities, the campus fortifies rural maritime infrastructure and emergency economic resilience in Bering Sea coastal communities.