Importance of Alaska’s Maritime Sector

Includes seafood harvesters; seafood processors; fisheries research, enhancement, and management; and marine occupations and support industries.

- **68K**: Alaska’s largest employer with more than 500 firms and a workforce of over 68,000
- **$6.75B**: The seafood industry provides $6.75B in annual economic impact to the state
- **800**: Over 800 maritime occupation codes
- **$1B**: The maritime industry provides more than $1B in annual economic impact
Alaska has more coastline than all of the contiguous USA plus Hawaii!
Fisheries, Seafood and Maritime Initiative

Not enough skilled Alaskans to meet the demand

Each maritime industry sector has a unique culture

Develop industry and education partnerships

Problem

Challenge

Solution
16 Campus Locations

- Fairbanks Campus
- Interior-Aleutians Campus
- College of Rural and Community Development
- Community and Technical College
- Chukchi Campus
- Northwest Campus
- Juneau Campus
- Sitka Campus
- Ketchikan Campus
- Kuskokwim Campus
- Bristol Bay Campus
- Kodiak College
- Prince William Sound C.C.
- Matanuska Susitna Campus
- Chugach-Eagle River Campus
- Anchorage Campus
- Kenai Peninsula College
- Kachemak Bay Campus KPC
- Military Programs
Key Partners

- University of Alaska
- AVTEC
- Alaska Department of Labor
- APICC
- Maritime Works
- Vigor Alaska
- NACTEC
- Northwestern Alaska Career and Technical Center
- Alaska Marine Highway
- Bristol Bay Native Corporation
- Homer Marine Trades Association
- Calista Corporation
- Crowley
- Sea Grant Alaska
- Edison Chouest Offshore
- Alyeska Pipeline Service Company
Workforce Development Timeline

2010
- FSMI Launched
  - UA invested $365K to develop plan
  - UA invested $463.4K from TVEP in FSMI programs

2014
- AK Maritime Plan Published
  - TVEP investments doubled
  - $2.2M TAACCCT grant for fish tech program
  - $5.8M Title III grant to expand maritime trades

2018
- DMCE Opportunity
  - Participation Community College Consortium
  - Attending and presenting at Shared Quarters Conference with Alaska training and industry partners
FSMI Annual TVEP Funding

FY11 – FY18

Workforce Plan Development

- FY11: $258,400
- FY12: $294,750
- FY13: $285,700

Plan Published

- FY14: $313,100
- FY15: $402,890
- FY16: $672,300
- FY17: $702,400
- FY18: $688,700

Workforce Plan Implementation

- FY15
- FY16
- FY17
- FY18
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<tr>
<th>Fiscal Year</th>
<th>Classes</th>
<th>Locations</th>
<th>Intensive Courses</th>
<th>Semester Courses</th>
<th>E-learning Courses</th>
<th>Hours Taught</th>
<th>Credits Earned</th>
<th>NC/CEU Courses</th>
<th>Credentials/Certifications Available</th>
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Building Awareness

Maritime Works is a network of committed individuals who participate in advancing maritime workforce development in Alaska. Following the publication of the Plan in 2014, they launched a website that is being expanded to increase career awareness around the state.

Maritime Works developed two videos in 2017. One to highlight all maritime careers, “Be a Rock Star”, and another to featuring ship building, “Alaska Strong”. These videos are among many resources found at maritimeworks.org.

The FSMI Leadership Team publishes an annual report of activities and a spring update to highlight programs and student successes.
UAA Kachemak Bay Campus

Marine Technology Program

- Offers eleven courses from Deckhand Skills and Basic Operations of Marine Electronics to US Coast Guard (USCG) certifications.

- Obtained USCG approval to provide Able Seaman and Master 100 Ton certifications; nine graduates in the first Able Seaman class.

- Partners with Homer Harbor for RSW students to see large systems on tenders.

- Enrollments increased by 100% since the program began in 2016.
Kodiak College

UAA Kodiak College

• Kodiak usually ranks in the top four in the nation for millions of pounds delivered to the dock.

• Now offering privately purchased workshops delivered onsite to meet specific schedules.

• Testing site for ABYC Marine Technician certifications.

• Recently partnered with UAA Mat-Su College RSW instructor to deliver two day workshop. Nine students received certificates.
Since 1998, PWSC has assisted Alyeska Pipeline Service Company in conducting annual oil spill response training under the SERVS Fishing Vessel Program, training 1500-1800 fleets on 420 vessels in four different ports in Prince William Sound.

City of Valdez, where PWSC is located, recently invested $80M to repair the boat harbor.

PWSC is collaborating with training partners to deliver their NCCER certified Millwright Program across the state. Previously focused on the mining industry, the training is transferable to the maritime and seafood processing industries.
Mission:
*Enhancing the sustainable use and conservation of Alaska’s marine and freshwater resources through research, outreach, and education.*

ASG provides many Marine Advisory Programs across the state, including:

- Provides the biennial Alaska Young Fishermen’s Summit to train new commercial fishing business owners and the Alaska Seafood Process Institute to train seafood production managers, quality assurance leaders, and small processors.

- Delivers U.S. Coast Guard approved Alaska Marine Safety Education Association (AMSEA) Drill Conductor training that meets requirements of commercial seafood harvesters.
UAF

Bristol Bay Campus

Delivers, in partnership with UAF Alaska Sea Grant Marine Advisory Program, the **Maritime Technical Program** to train commercial, recreational, and subsistence boat owners and operators in outboard and diesel engine maintenance, diagnosis, and repair.

**Mission**
Serving the Bristol Bay Region and the Aleutian and Pribilof Islands

**Program Outcomes**
Trained 22 students in 2017.

**What's Next**
Expanding program with courses in hydraulics, marine fabrication, and refrigerated sea water.
UAF College of Fisheries & Ocean Sciences

Statistics

- Offers two undergraduate programs with two minors, and five graduate programs that include two Ph.D.'s.
  - 160 Employees in 12 locations
  - 52 faculty across the state
  - 12 Marine Advisory Program Agents in 8 coastal communities
- 53 undergraduate and 109 graduate students

![Fisheries Undergraduate Enrollment](chart.png)
UAS Fisheries

Provides three Bachelor’s of Science Programs: Biology, Marine Biology, and Fisheries.

Delivers Fisheries jointly with UAF CFOS to increase:
• Delivery capacity across the state
• The number of graduates
• The diversity of research and internship experiences

Alaska is currently experiencing a shortage of fisheries technicians and fisheries biologists – a trend predicted to continue for at least the next 10 years. UAS Sitka Campus, has partnered with industry and regulatory agencies to develop programs that can meet this growing need.

• Offer OEC, Certificate, and AAS in Fisheries Technology
• Courses offered online, in the classroom, and via iPad to be taken “off the grid” – ultimate flexibility for students.

UAS Fisheries Technology
UAS
Ketchikan
Campus

- Over 6000 maritime jobs in SE Alaska.
- US Coast Guard (USCG) approved and NCCER certification courses.
- Partners include: Vigor Alaska, Alaska Marine Highway System, USCG, SE Alaska Pilot's Association, Ketchikan Indian Community, APICC, and AVTEC.
Maritime Programs

Young Mariner
- Introduction to Nautical Skills
- Young Fisherman’s Training
- Maritime Pre-Apprenticeship

Maritime Licenses/Certifications
- 40 US Coast Guard approved courses
- License prep up to 1600 Tons and Third Mate Unlimited
- Able Seafarer/Seaman, QMED, Advanced Officer, and Marine Engineer

Maritime Apprenticeship
- Three pathways with three tiers
  - Deck: Deckhand to Mate
  - Engine: Wiper to Assistant Engineer
  - Kitchen: Steward to Chief Cook
Sustainability
Through Partnerships

FSMI
Established in 2010 by UA, FSMI Leadership meets monthly and expanded to include three industry working groups to implement the workforce plan.

Industry Partners
Provide valuable feedback on advisory boards, invest in training, and become engaged members of Maritime Works.

Maritime Works
A growing network of industry leaders committed to advancing maritime workforce development.

Students/Workforce
The maritime industry will grow to be Alaska Strong as students are trained and join the workforce.

Training Partners
Career awareness and training is coordinated between secondary and postsecondary with industry input.
Thank you

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http://www.alaska.edu/fsmi/
https://uaworkforceprograms.com/