Provide world-class workforce training in occupational fields leading to employment in the mining industry, with a special emphasis on expanding an Alaskan workforce for underground Mine Mechanics. Working in partnership with Mining and Petroleum Training Service (MAPTS) under the UAF Cooperative Extension Services, UAS/CMT also provides industry-regulated Mine Safety and Health (MSHA) training for experienced and inexperienced miners.
Students | Graduates*
--- | ---
IMOO | Academy | OE/AAS
2011/12-16/17 | 258 | 48 | 15

Current Students

<table>
<thead>
<tr>
<th>Location</th>
<th>IMOO</th>
<th>OE/AAS</th>
</tr>
</thead>
<tbody>
<tr>
<td>Juneau</td>
<td>12</td>
<td>3</td>
</tr>
<tr>
<td>Haines</td>
<td>6</td>
<td>-</td>
</tr>
<tr>
<td>Sitka</td>
<td>2</td>
<td>-</td>
</tr>
<tr>
<td>Ketchikan</td>
<td>6</td>
<td>-</td>
</tr>
<tr>
<td>POW</td>
<td>5</td>
<td>-</td>
</tr>
</tbody>
</table>

PATHWAY to MINING CAREERS

CENTER for MINE TRAINING
UNIVERSITY of ALASKA SOUTHEAST

INTRODUCTION TO MINING OCCUPATIONS & OPERATIONS

SUMMER INTERNSHIP

MINE MECHANIC PROGRAMS
Fixed Plant AAS

Maintenance and Repair Workers, General (49-0711)

**Occupation description:** Perform work involving the skills of two or more maintenance or craft occupations to keep machines, mechanical equipment, or the structure of an establishment in repair. Duties may involve pipe fitting, boiler making, insulating, welding, machining, carpentry, repairing electrical or mechanical equipment, installing, aligning, and balancing new equipment, and repairing buildings, floors, or stairs. Excludes Maintenance Workers, Machinery (49-0043).

For an explanation of the data, click on the question mark ☰ next to the heading.

<table>
<thead>
<tr>
<th>Employment and Job Openings (click here for the 10-year forecast)</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Average employment</strong></td>
</tr>
<tr>
<td>------------------------</td>
</tr>
<tr>
<td><strong>2014 estimate</strong></td>
</tr>
<tr>
<td>Alaska</td>
</tr>
<tr>
<td>United States</td>
</tr>
</tbody>
</table>

**Job outlook**

*Alaska:* Alaska's employment growth is low with very high employment opportunities. Read more.

<table>
<thead>
<tr>
<th>2016 Wages</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Wage by Percentile</strong></td>
</tr>
<tr>
<td>------------------------</td>
</tr>
<tr>
<td>10th</td>
</tr>
<tr>
<td>United States</td>
</tr>
<tr>
<td>Alaska</td>
</tr>
<tr>
<td>Anchorage/Mat-Su Area</td>
</tr>
<tr>
<td>Fairbanks North Star Borough</td>
</tr>
<tr>
<td>Southeast Region</td>
</tr>
<tr>
<td>Balance of State</td>
</tr>
</tbody>
</table>

DOT statistics for the State of Alaska show that by the year 2024 there will be a growth of 6.1% in needed Millwright Workers, 4.3% growth in Industrial Machinery Mechanics, 3.6% growth in General Maintenance and Repair Workers. This means 154 new jobs in the state and 1028 replacement jobs by the year 2024.

<table>
<thead>
<tr>
<th>Currently employed in a lower paid occupation</th>
<th>Number of job position postings</th>
</tr>
</thead>
<tbody>
<tr>
<td>294</td>
<td>361</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>UI claimants previously working in occupation</th>
<th>Ratio of registrants to job position postings</th>
</tr>
</thead>
<tbody>
<tr>
<td>453</td>
<td>6.1</td>
</tr>
</tbody>
</table>

UNIVERSITY of ALASKA SOUTHEAST
Fixed Plant - Additional Career Pathway

**Occupational Endorsement:**  
Power Technology with an emphasis in Mine Mechanics  
- DESL S102 Lubrication, Preventive Maintenance, & Inspections  
- DESL S110 Diesel Engines  
- DESL S121 Basic Electrical Systems  
- DESL S125 Basic Hydraulics  
- DESL S130 Refrigeration and Air Conditioning  
- DESL S225 Advanced Hydraulics  
- DESL S250 Heavy Duty Brakes  
- DESL S255 Heavy Duty Suspension & Alignment  
- DESL S260 Heavy Duty Power Trains  
- WELD S120 Basic Welding

**Associate of Applied Science:**  
Power Technology with an emphasis in Mine Mechanic  
- DESL S102 Lubrication, Preventive Maintenance & Inspection  
- DESL S107 Diesel Fuel Systems  
- DESL S110 Diesel Engines  
- DESL S121 Basic Electrical Systems  
- DESL S125 Basic Hydraulics  
- DESL S130 Refrigeration and Air Conditioning  
- DESL S131 Electrical II  
- DESL S180 AC Power Generation  
- DESL S225 Advanced Hydraulics

- DESL S250 Heavy Duty Brakes and CDL Preparation  
- DESL S255 Heavy Duty Suspension and Alignment  
- DESL S260 Heavy Duty Power Trains  
- WELD S120 Basic Welding  
- WELD S175 Welding Special Topics  

---

**Fixed Plant - Additional Career Pathway**  
- DESL S102 Lubrication, Preventive Maintenance, & Inspections  
- DESL S121 Basic Electrical Systems  
- DESL S125 Basic Hydraulics  
- DESL S130 Refrigeration and Air Conditioning  
- DESL S131 Electrical II  
- DESL S180 AC Power Generation  
- DESL S225 Advanced Hydraulics

- DESL S125 Basic Hydraulics  
- DESL S130 Refrigeration and Air Conditioning  
- DESL S131 Electrical II  

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**Advisor approved Power Technology elective**
Maritime Trades Training

* Marine Transportation
* Maritime & Multi-skilled Worker
* Marine Industrial & Fabrication
* Over 6000 Maritime Jobs in SE Alaska

- Homes & families based in SE Alaska
- Work all over AK & the world
- Bring wages back to SE AK
Marine Transportation

* Deck Operations (Captains, Mates, Deck Hands)
* Able Body Seaman to Third Mate
* 22 US Coast Guard Approved Courses
* Associate of Applied Science
* Over 600 Trained in Last 2 Years
Maritime & Multi-Skilled Worker / Marine Engines

* Ship Building & Repair
* USCG Marine Engine Oilers
* Diesel, Hydraulics, Marine Electrical, Refrigeration, Naval Architecture
* 95% employment rate
  * AMHS, NOAA, Vigor, Tyler, AMAK, Foss Towing, etc.
Welding & Fabrication

* Ship Building & Repair
* Maritime Shore Side Services

• Occupational Endorsement
• NCCER Certification
• Putting Alaskans to Work
  – Vigor, Tyler, AML, USCG, AMHS, Schmolck Mechanical, E.C. Phillips Mechanical, Crowley, Ketchikan Mechanical, etc.
Community Partners

* Vigor Alaska
* Alaska Marine Highway System
* U.S. Coast Guard
* SE Alaska Pilots’ Association
* North Tongass Fire Department
* Ketchikan Indian Community
* Ketchikan Gateway Borough School District
House Bill 123
Disclosure of Healthcare Costs
Certified Nurse Aide Training
9 credits

Healthcare Information Technology
15 credits
Train in Alaska for High Demand Career

Certiﬁcates

Medical Assisting
35 Credits
Pre-Nursing
52 Credits
Pre-Radiologic Tech
30 Credits

Healthcare Privacy & Security
HIM Coding
30 credits
Health Sciences
30 Credits
UAA Nursing Cohorts
JNU KTN SIT

Health Information Management
60 credits