



University of Alaska

Education and Training for Mining, FY15

The University of Alaska is committed to preparing today's students for tomorrow, recognizing that tomorrow's careers require advanced skills, greater knowledge, and more flexibility than ever before. Specific to the mining industry, the University offers career and technical training as well as advanced degrees. This inventory provides the locations of programs and degrees or certificates offered in FY15, which includes three terms: summer 2014, fall 2014, and spring 2015.

The University of Alaska is unique in its offerings of education and training programs to assist in building a skilled workforce for the mining industry:

- Core programs include vocational and technical training directly related to the mining industry (all phases) as well as bachelors and advanced education programs directly related to mining, geological engineering, mineral processing and geology.
 - 1 Occupational Endorsement, 3 Associate Degrees, 5 Bachelor's Degrees, 5 Master's Degrees, and 2 Doctorates
 - 358 degrees were awarded to graduates in the core programs between 2010 and 2014.
- Support programs to mining include the broader vocational and technical training and advanced degrees in such fields as welding, engineering, environmental sciences, management fields, logistics, power technology, culinary arts, and so on.
 - 18 Occupational Endorsements, 30 Certificates, 38 Associate Degrees, 37 Bachelor's Degrees, 4 Graduate Certificates, 37 Master's Degrees, and 10 Doctorates
 - Information on these programs can be located at: <http://www.alaska.edu/research/wp/ua/>
- Approximately 28 percent of mining core and support programs have e-Learning components.
- The University engages in advisory councils to inform and guide education and training programs.
- The University has specialized capacities such as the UAS Center for Mine Training in Juneau and the Mining and Petroleum Training Service (MAPTS) located in Anchorage and at Kenai Peninsula College, serving the entire state.

For more information, please contact:

Fred Villa, Associate Vice President
University of Alaska Statewide
Academic Affairs for Workforce Programs
fred.villa@alaska.edu
(907) 450-8008

Note: Data Supplied by the universities via UA Information Systems: UA Decision Support Database (RPTP.DSDMGR) FY15 in conjunction with UA Office of Workforce Development. Compiled by UA Institutional Research, Planning, and Analysis. August 2015, N-70

Core Programs



Mining and Petroleum Training Services, www.mapts.alaska.edu

Mining Related Programs, FY15				
Program	Degree/Certification	University	Location	Delivery
DEC Certified Installer	N/A	UA-Statewide	Anchorage Fairbanks Mat-Su Soldotna	Traditional
Drilling Roustabout	Certificate	UA-Statewide	Anchorage Soldotna	Traditional
HAZWOPER (40Hr/24Hr/8Hr)	Certificate	UA-Statewide	Anchorage King Salmon Soldotna	Traditional
Mechanical Maintenance: Power Boiler/Gas-Fired/Oil-Fired Heating Systems	Certificate	UA-Statewide	Anchorage	Traditional
Mine Training Camps – Hard Skills	MSHA 5000-23/Certificate and Workforce Credentials	UA-Statewide	Delta Junction	Traditional
Mine Training – High School	N/A	UA-Statewide	Various	Traditional
MMS/IADC Well Control	IADC Certificate	UA-Statewide	Anchorage Soldotna	Traditional
MSHA Part 48 Surface Inexperienced New Miner	MSHA 5000-23	UA-Statewide	Various	Traditional
MSHA Part 48 Surface Refresher	MSHA 5000-23	UA-Statewide	Various	Traditional
MSHA Part 48 Underground Inexperienced New Miner	MSHA 5000-23	UA-Statewide	Various	Traditional
MSHA Part 48 Underground Refresher	MSHA 5000-23	UA-Statewide	Various	Traditional
MSHA Part 46 Surface Inexperienced New Miner	MSHA 5000-23	UA-Statewide	Various	Traditional
MSHA Part 46 Surface Refresher	MSHA 5000-23	UA-Statewide	Various	Traditional
MSHA Surface Coal New Miner	MSHA 5000-23	UA-Statewide	Various	Traditional
MSHA Surface Coal Refresher	MSHA 5000-23	UA-Statewide	Various	Traditional
MSHA Train-the-Trainer	Recommend to MSHA	UA-Statewide	Various	Traditional
Surface Coal Blasters	Recommend to DNR	UA-Statewide	Usibelli	Traditional



Anchorage Campus, www.uaa.alaska.edu/

Mining Related Programs, FY15				
Program	Degree	University	Location	Delivery
Geological Science	Bachelor of Science	UAA	Anchorage	Traditional
Geomatics	Associate of Applied Science	UAA	Anchorage	Traditional
Geomatics	Bachelor of Science	UAA	Anchorage	Traditional
Occupational Safety & Health	Associate of Applied Science	UAA	Anchorage	Distance

UAA, Department of Geological Sciences: www.uaa.alaska.edu/geology/

UAA, Geomatics Program: www.uaa.alaska.edu/schoolofengineering/programs/geomatics/geospatial/uaa-geomatics-progrm.cfm

Prince William Sound College, www.pwscc.edu/

Maritime Related Training, FY15					
Program	Hours	Credit/Noncredit/CEUs	University	Location	Delivery
Confined Space Awareness	8	.5 Credit	UAA	Valdez	Traditional
Hazwoper Refresher-8 Hour	8	.5 Credit	UAA	Valdez	Traditional
Hazwoper-24 Hour	24	1.5 Credits	UAA	Valdez	Traditional
Hazwoper-24 Hour Marine	24	1.5 Credits	UAA	Valdez	Traditional
Introduction to Welding	16	Noncredit	UAA	Valdez	Traditional
Millwright Level I	150	4 Credits	UAA	Valdez	Traditional
Millwright Level II	150	4 Credits	UAA	Valdez	Traditional
Millwright Level III	195	5 Credits	UAA	Valdez	Traditional
Millwright Level IV	195	5 Credits	UAA	Valdez	Traditional
Millwright Level V	195	5 Credits	UAA	Valdez	Traditional



Fairbanks Campus, www.uaf.edu/

Mining Related Programs, FY15				
Program	Degree	University	Location	Delivery
Geological Engineering	Bachelor of Science	UAF	Fairbanks	Traditional
Geological Engineering	Master of Science	UAF	Fairbanks	Traditional
Geology	Bachelor of Science	UAF	Fairbanks	Traditional
Geology	Doctor of Philosophy	UAF	Fairbanks	Traditional
Geology	Master of Science	UAF	Fairbanks	Traditional
Geophysics	Doctor of Philosophy	UAF	Fairbanks	Traditional
Geophysics	Master of Science	UAF	Fairbanks	Traditional
Mineral Preparation Engineer	Master of Science	UAF	Fairbanks	Traditional
Mining Engineering	Bachelor of Science	UAF	Fairbanks	Traditional
Mining Engineering	Master of Science	UAF	Fairbanks	Traditional

UAF, Department of Geology and Geophysics: www.uaf.edu/geology

UAF, College of Engineering and Mines: cem.uaf.edu/mingeo/degrees.aspx



UAS – Center for Mine Training, www.uas.alaska.edu/career_ed/mining/index.html

Mining Related Programs, FY15				
Program	Degree/Certifications	University	Location	Delivery
** Entry Level Underground Miner Class	MSHA 5000-23/Certificate and Workforce Credentials	UAS	Juneau	Traditional
**MSHA Part 48 Surface Inexperienced New Miner	MSHA 5000-23	UAS	Juneau	Traditional
**MSHA Part 48 Underground Inexperienced New Miner	MSHA 5000-23	UAS	Juneau	Traditional
**MSHA Part 48 Surface Refresher Training	MSHA 5000-23	UAS	Juneau	Traditional
**MSHA Part 48 Underground Refresher Training	MSHA 5000-23	UAS	Juneau	Traditional
Hecla Greens Creek Mine Academy	2 credits	UAS	Juneau	Traditional
Introduction to Mining Occupations 101	3 credits	UAS	Juneau	Distance

** These programs conducted in partnership with UA Mining and Petroleum Training Service.

Juneau Campus, www.uas.alaska.edu/

Mining Related Programs, FY15				
Program	Degree	University	Location	Delivery
Power Tech: Mine Mechanic	Occupational Endorsement Cert	UAS	Juneau	Traditional
Power Technology	Associate of Applied Science	UAS	Juneau	Traditional