



ALASKA METAL & MECHANICAL APPRENTICESHIP

**R.E.A.P. Presentation**



## SHEETMETAL APPRENTICESHIP

4 YEAR PROGRAM

This program focuses on the fabrication and installation of HVAC duct systems.

### Apprentices learn to:

- Install Air Handling Units
- Run ductwork for supply air, return air, ventilation, and exhaust
- Design efficient duct systems that reduce static pressure and minimize air turbulence
- Indoor Air Quality: Oxygen & CO2 levels/ filtration
- All areas of metal fabrication and Welding
- Testing Adjusting & Balancing: Measuring system performance

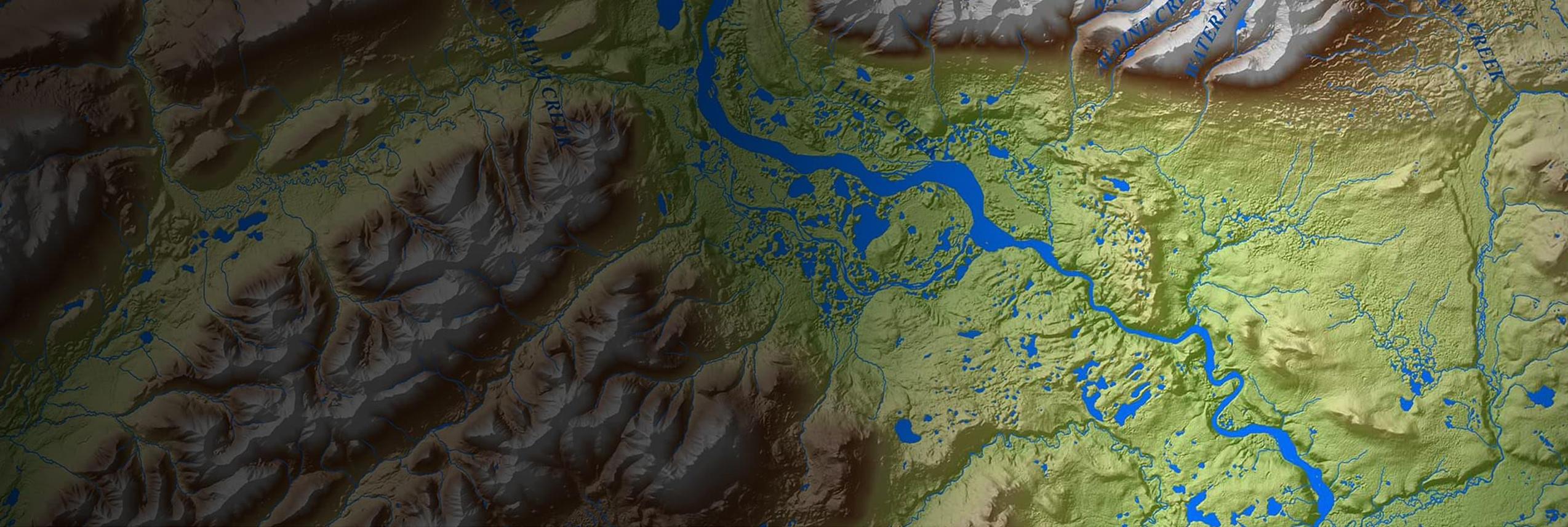


## HVAC-R SERVICE TECHNICIAN APPRENTICESHIP

### 4 YEAR PROGRAM

This track emphasizes the maintenance of HVAC-R systems and the installation of refrigeration equipment and Building Controls

- Half of the curriculum is dedicated to mastering the refrigeration cycle. Commercial Rack Systems to Heat Pumps to Ice Machines
- Apprentices service all heating and cooling systems—from oil burners and propane furnaces to Boilers, rooftop units, chillers, and advanced building automation systems.

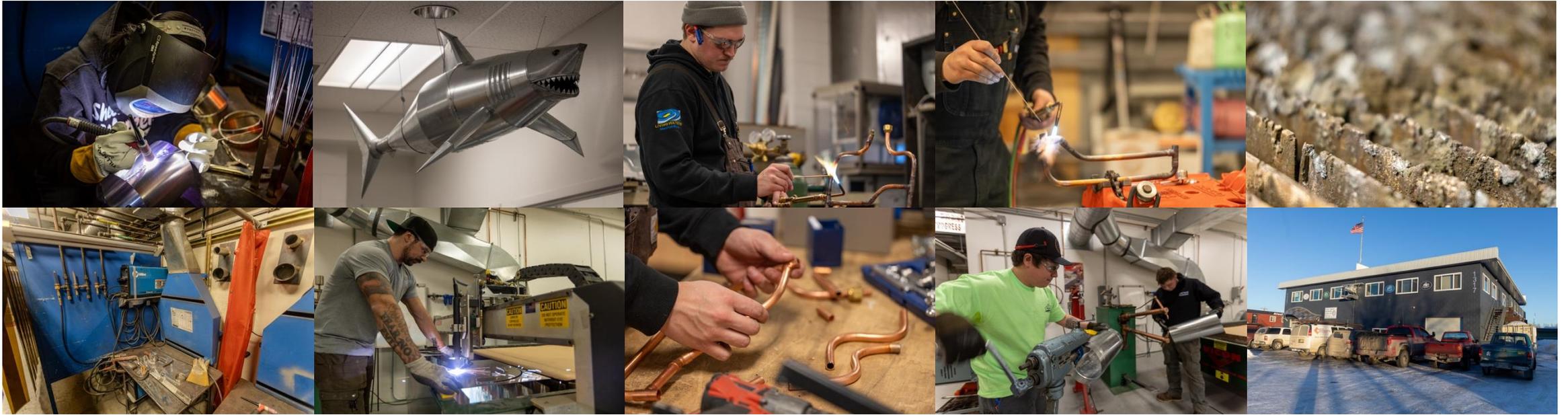


ALASKA METAL & MECHANICAL APPRENTICESHIP

# ANCHORAGE/MAT-SU

There is much more to the State!





## DOL Critical Sector Job Quality Grant

OUTREACH & RECRUITMENT

The grant supports:

- Recruiting underrepresented workers into apprenticeship programs
- Partnering with industry stakeholders to boost enrollment in HVAC-R training
- Expanding hands-on curriculum in energy-efficient technologies
- Placing graduates into full-time HVAC-R careers

The “CSIQ Tier 2 Implementation Project” received \$2,415,709 (100% of its total cost) from a grant awarded under the Critical Sectors Job Quality grant, as implemented by the U.S. Department of Labor’s Employment and Training Administration.



## KETCHIKAN

A M M A O U T R E A C H

- Create partnership with Ketchikan High School.
- Partner with UAS Ketchikan
  - In April we taught 2, **Intro to SM** classes for the welding program
- Visit local contractors to understand manpower needs
- Work with the Job Center to reach the broader community
- Partner with the Ketchikan Indian Center, developing introductory HVAC classes together



# SITKA

A M M A O U T R E A C H

- Sitka High School
- Held two intro-to-Sheet Metal sessions at Mt. Edgecumbe's welding classes
- Met with local contractors
- Partnered with the Job Center





## JUNEAU

### A M M A O U T R E A C H

In Juneau, we follow a similar model.

- Taught **Intro-to-Sheet Metal** programs at Juneau-Douglas High School and connected with their house-build program.
- We've built strong ties with UAS Juneau, partnering with their **Construction, Refrigeration, and Welding** programs.

**One highlight:** a local Union member recently taught a **Mechanical Ventilation** class to UAS construction students, sharing his expertise while showcasing career opportunities in HVAC-R.

# IS IT WORKING?

A M M A O U T R E A C H P R O G R A M S

The results so far are promising:

1. In 2 years, our number of S.E. apprentices has grown from 2 to 7.
2. Ketchikan now has its first-ever HVAC-R Service Tech apprentice.
3. Our newest apprentice in Ketchikan first heard about a SM apprenticeship when we visited his high school welding class last Fall.
4. A Mt. Edgecumbe student who attended our intro program became a pre-apprentice on a Sitka hospital project.
5. In Juneau, we are preparing to hire a new HVAC-R apprentice who first learned about the opportunity at our presentation in his UAS refrigeration class

Clearly, these visits are making an impact—and we're committed to continuing them.

# WHAT'S NEXT?

A M M A O U T R E A C H P R O G R A M S

So, how do we expand this recruitment effort statewide?

- We're working with Bristol Bay Native Corporation and Cook Inlet Tribal Council developing pilot HVAC-R introduction classes.
- These pilots could become a model to replicate across rural Alaska.

The potential impact is huge:

- ✓ Energy savings in communities where HVAC costs are high
  - ✓ Lower repair costs by training local technicians
- ✓ Job creation that keeps skilled workers in their home regions
- ✓ A stronger, more diverse pipeline of apprentices statewide

# Completing our CSJQ Grant

A M M A : P a r t n e r s , T r a i n i n g & O u t c o m e s

-Partnering with industry stakeholders to boost enrollment in HVAC-R training.

To everyone here today. Here we are. Let's do this together.

- Expanding hands-on curriculum in energy-efficient technologies

We have purchased 10 new trainers for our HVAC-R Service program.

Everything from Variable Refrigerant Flow to Heat Pumps to Pneumatics.

- Placing graduates into full-time HVAC-R careers

We already do this in urban Alaska. [How can we do this in rural AK?](#)