



CAREER & TECHNICAL EDUCATION PRACTICUM

JANUARY–JUNE, 2020



PRACTICUMS ARE AVAILABLE IN

Diesel Heavy Equipment

Maritime

Business & Office Technology

Culinary Arts

Carpentry

Application Fee (non-refundable)	\$35
Tuition	\$350
Supplies & Fees	\$200
Room & Board	\$410
Total for 5 day practicum	\$995

*Professional development credit (1) available for an additional cost of \$80 through Alaska Pacific University.

PROFESSIONAL DEVELOPMENT FOR ALASKA'S SECONDARY CTE TEACHERS

Spend a week at the Alaska Vocational Technical Center (AVTEC) in beautiful Seward, Alaska, where you will be fully immersed in a CTE field of practice alongside your postsecondary CTE counterparts.

This highly customizable, hands-on professional development opportunity will provide you with experience in team teaching and learning. You will have the opportunity to observe, practice, and journal about CTE teaching techniques, or develop skills in your own CTE content area with the option of developing teaching modules to take back to your own classrooms.

FOR MORE INFORMATION CONTACT:

Trish Hart

trish.hart@avtec.edu

(907) 224-6141

PRACTICUM OPPORTUNITIES

All practicums include hands-on labs

Diesel Heavy Equipment Maintenance

- **Diesel Engine Fundamentals**
Learn the basics of diesel engine terminology and discuss basic engine operation theory.
February 10–14
- **Basic Engine Lubricating and Cooling Systems**
Participants will learn about diesel engine lubricating and cooling systems including the qualities of modern lubricating oils and cooling treatment systems.
March 2–6
- **Engine Intake/Exhaust & Emissions Systems**
This program will explain diesel engine intake and exhaust systems.
March 16–20
- **Diesel Engine Fuel Injection Principles**
This program will discuss basic Diesel Engine Fuel Injection theory, identify the different types of Injection Nozzles and basic Fuel Nozzle testing.
March 30–April 3
- **Engine Starting and Charging Systems**
This program will discuss Engine Starting and Charging systems.
May 11–15

Alaska Maritime Training Center Deck, Engine & Vessel Mechanical

- **Basic Training**
The course modules consist of Cold Water Survival Techniques, Basic Fire Fighting, First Aid & CPR, and Personal Safety & Social Responsibility.
March 3–6, March 30–April 3, May 11–15, June 1–5
- **Marine Diesel Engines**
The instruction in this class is focused on the theory and how and why the diesel engine works. The course is mostly hands-on with classroom time going through the engine components
March 23–27
- **Vessel Mechanical Systems**
The course is geared to the auxiliary machinery on board a marine vessel. The main focus will be on vessel shafts, bearings, pumps, heat exchangers, and hydraulics
January 27–January 31

Information Technology Department Business and Office Technology

- **Microsoft Skills Assessment and Center Development**
During this practicum, participants develop a plan to become certified; participants will explore the opportunity to become an authorized testing center for Certiport and IC3 and/or Microsoft Office Specialist certifications and job shadow current practices
February 10–14

Alaska Culinary Academy

- **Culinary Practicum**
The course consist of knowledge & competencies to fit the basic needs of any beginner cook/ instructor that teaches Culinary Arts. It will cover basic skills and methods of instruction to fit the learning curve of the student
March 2–6, June 8–12

Construction Technology

- **Roof Systems**
Participants will learn basic roof design, rafter calculations, layout and framing
February 24–28
- **Intro to Electricity**
Participants will learn basic electrical theory and residential electrical codes, and perform basic residential circuitry
March 30–April 3
- **Basic Stair Construction**
Participants will learn basic stair design, residential and commercial codes, calculations, layout and framing
April 13–17