

AVTEC SPRING 2021 ONLINE COURSES

The Alaska Energy Authority (AEA), in cooperation with the Alaska Vocational Technical Center (AVTEC), is offering the following Power Plant and Bulk Fuel Operator Training courses for the spring of 2021.

By offering these courses online, Bulk fuel and Power Plant Operators from rural Alaska, have the opportunity to increase their knowledge and skills needed to operate and maintain their local bulk fuel storage and/or power plant. Each student will interact with an AVTEC instructor online in a pre-scheduled class room video conference. Additionally they will self-study each day on their own schedule and take quizzes online at the end of each week. The amount of time per day a student needs to allocate for their self-study is dependent upon their experience and study habits and is typically 1 to 3 hours. A certificate is awarded to those students who complete each course with a passing grade.

As COVID-19 continues to disrupt Alaskans' way of life, AEA and AVTEC and DC continue to work together to assist rural Alaskans by developing and migrating to online training. The online courses can be accessed from anywhere there is adequate internet connectivity. A student can use nearly any device including a laptop, desktop pc, tablet, or smartphone to access the video conferences and course materials, and turn in assignments, and take quizzes.

All training is administered by AEA, delivered by AVTEC in Seward Alaska, and funded by the Denali Commission (DC).

Utility and Tank Farm Managers, if you have operators who need this training please contact AEA Project Manager Daniel Johnston at (907) 771-3069 or djohnston@akenergyauthority.org to enroll them in one of the upcoming courses. Space is limited so please do not hesitate. The efficiency, reliability, and operation of your facility depend on trained and knowledgeable staff.

Bulk Fuel Operator (BFO) Training (Online)

Monday, March 8, 2021 through, Friday, April 2, 2021

Monday through Thursday 1-4 p.m. Classroom (video conference) time; Test/quizzes on Fridays

Monday, April 19, 2021 through Friday, May 14, 2021

Monday through Thursday 1-4 p.m. Classroom (video conference) time; Test/quizzes on Fridays

Course Description: This course provides students the knowledge and skills necessary to safely operate and maintain a bulk fuel storage facility while complying with state and federal regulations. The program includes bulk fuel storage facility construction, facility operations, tank farm inspection criteria, facility maintenance, inventory control, tank farm safety, firefighting, spill detection, and spill response planning.

Fuel Shore Side Person in Charge (PIC) Training (Online)

Monday, May 24, 2021, through Friday June 4, 2021, Nine (9) Instruction Days
9 a.m.-Noon Classroom (video conference) time. (2-1/2 to 3 hours daily)

Course Description: This course will cover United States Coast Guard policies requirements and inspections. Labeling and hazards of gasoline, diesel, and jet fuel. Arrangement of tanks, piping instrumentation, and venting. Product measurement and calculations. Offloading and documentation. Tank cleaning and confined space. Marine pollution, Safety, firefighting, and emergency procedures. Marine and terminal casualties and explosions. Fall protection. Lockout tag out. This course is open to all students who work with the storage, transfer, and handling of fuel in bulk in rural Alaska. AEA prefers students complete the BFO and/or the PPO courses or have extensive experience before enrolling in the PIC course.

Power Plant Operator (PPO) Training (Online)

PPO Part A – Monday, January 25, 2021, through Friday, March 5, 2021

Monday through Thursday 9 a.m. to Noon Classroom (video conference) time. Test/Quiz on Fridays

PPO Part B – Monday, March 8, 2021, through Friday, April 16, 2021

Monday Through Thursday 9 a.m. to Noon Classroom (video conference) time. Test/Quiz on Fridays

(A student must complete PPO Part A to attend PPO part 2)

The Power Plant Operators certificate course is twelve weeks of online training.

Course Description: This is the entry-level course for power plant operators provides the necessary skills to operate and maintain a power plant. The program includes engine maintenance, troubleshooting and theory, electrical systems and generators, introduction to electrical distribution systems, diesel electric set operation, control panels, paralleling generator sets, load management, fuel management, waste heat recovery, plant management, as well as how to integrate both hydro and wind systems. PPO are encouraged to take the BFO and PIC training if they are responsible for fuel handing of the power plant. The PPO course consists of three (3) hours of classroom (Zoom) time, and approximately three (3) hours of homework/personal study time, each instructional day. The homework/personal time is dependent upon the individual's study habits, work, and family life.

Advanced Power Plant Operator Training (AVTEC in Seward, Alaska*)

***This course has not yet been scheduled.**

Course Description: This advanced course provides students the necessary knowledge and skills to diagnose and repair failures in power plants. This course is three (3) weeks in length, After a brief review of electrical fundamentals, the class will focus more intensely on the computer control systems and the mechanical components and heat recovery systems. Prerequisite is the PPO class. AEA highly recommends all Rural Energy Operators complete the BPO, PPO, and PIC courses