Welding and Nondestructive Testing Technology

Transportation & Power Division
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The welding and nondestructive testing technology program prepares students for employment in welding and/or nondestructive examination as entry-level technicians. A variety of career opportunities are available to welding technicians and nondestructive examination technicians. Both of these fields are utilized in construction, manufacturing and transportation industries throughout the world.

The UAA welding and nondestructive testing (NDT) program offers an Associate of Applied Science (AAS) in Welding and Nondestructive Testing Technology and occupational endorsement certificates in welding, advanced welding and nondestructive testing technology. Curriculum for the three occupational endorsement certificates is combined in the AAS. Kenai Peninsula College also offers an Undergraduate Certificate in Welding Technology.

Welding courses are designed to develop knowledge and skills in four main welding processes and three thermal cutting processes, as well as gain a wide range of technical knowledge in welding application, procedure/welder qualification, reading plans and specifications, and applied metallurgy. Welder qualification tests are administered as prescribed in AWS D1.1, API Standard 1104, or ASME IX welding codes.

Nondestructive testing technician students examine metallic components or weldments to locate and evaluate discontinuities by learning to apply liquid die penetrant (PT) magnetic particle (MD) eddy current (ET) radiographic (RT) and ultrasonic testing (UT) methods. Student qualification in each NDT method is based on general, specific and practical examinations administered as prescribed in the American Society for Nondestructive Testing (ASNT) Recommended Practice No. SNT-TC-1A.

Programs of Study

Occupational Endorsement Certificates

- OEC in Advanced Welding (http://catalog.uaa.alaska.edu/undergraduateprograms/ctc/weldingandnondestructivetestingtechnology/oec-advancedwelding/)
- OEC in Nondestructive Testing Technology (http://catalog.uaa.alaska.edu/undergraduateprograms/ctc/weldingandnondestructivetestingtechnology/oec-nondestructivetestingtechnology/)

Undergraduate Certificate

- Certificate in Welding Technology (http://catalog.uaa.alaska.edu/undergraduateprograms/ctc/weldingandnondestructivetestingtechnology/certificate-weldingtechnology/)

Associate of Applied Science

- AAS in Welding and Nondestructive Testing Technology (suspended) (http://catalog.uaa.alaska.edu/undergraduateprograms/ctc/weldingandnondestructivetestingtechnology/aas-weldingnondestructivetestingtechnology/)