

CERTIFICATE OF ACHIEVEMENT IN SANITARY WELDING APPLICATIONS

The Certificate of Achievement requirements include completion of the certificate courses with a “C” or better grade in each course. Required and support courses may be substituted with the approval of the Industry & Technology Division Chair.

This certificate prepares students for entry-level employment in the field of Sanitary Welding. Students completing this certificate will acquire entry-level employment skills in the field (s) of Food Grade Stainless Steel Welding, Food and Beverage Manufacturing, and Hospital and Pharmaceutical Welding Applications, both locally and internationally. Completion of this certificate can be enhanced for industry standards by students completing American Welding Society certifying tests. Students completing this certificate will acquire entry-level skills in Gas Tungsten Arc Welding, Stainless Steel Purge Welding, Aluminum Welding, weld polishing, and finishing skills. Students will know the principles of purge welding, standards and expectations of welding in food production facilities, and gain an understanding of applicable industry codes.

Program Outcomes

- Adjust, operate, and troubleshoot gas tungsten arc welding and gas metal arc welding apparatuses to industry standards.
- Perform quality aluminum welds using the gas tungsten arc welding and gas metal arc welding processes to industry standards.
- Fit up weldments to within the tolerances specified in applicable American Welding Society codes.
- Perform stainless purge welds in various positions to industry standards.
- Perform basic welding inspection tasks relating to sanitary welding applications.
- Accurately measure, cut, and fit up weldments and weld them to industry standards.
- Polish stainless steel weldments to a food-grade finish.

Career Opportunities

Upon successful completion of this certificate, students will be prepared for employment in the following fields: Stainless steel and aluminum fabrication and repair in the food and beverage manufacturing industries. Maintenance welding and repair in food processing and pharmaceutical facilities. Welding-related quality control and inspection on welding-related applications.

Program Requirements

Code	Title	Units
REQUIRED CERTIFICATE COURSES		
WELD 172	Gas Tungsten Arc Welding	4
WELD 273	Stainless Steel Weld / Repair	4
WELD 274	Aluminum Welding	4
WELD 275	Welding Codes/Certification	4
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TOTAL		16