

Orbital Welding for Spacecraft - 8 hours

OVERVIEW

This class will teach the fundamental requirements for spacecraft orbital welding. Students will also become familiar with how to weld and how to avoid and correct failures.

LEARNING OBJECTIVES

By the end of this course participants will be able to:

- Understand the requirements to meet AWS D17.1
- Describe the process for welder and weld certification
- Describe and be ready to implement a flight weld qualification and production process
- Know how to use the weld equipment
- Understand the different types of weld failures and the standards
- How to avoid failures and how to correct them

WHO IS THIS FOR?

Engineers and technicians responsible for orbital welding, process engineers, and quality assurance engineers.

INSTRUCTORS

Kyle Bentley has been a certified orbital welder and working on spacecraft since 2011. He was the lead propulsion technician for Europa Clipper, and has worked on many other spacecraft, including Roman Space Telescope, and the Global Precipitation Measurement mission, with many hundreds of flight welds in both stainless steel and titanium.

Melissa Harris has a B.S. Facilities Engineering from the Massachusetts Maritime Academy, and has been a flight engineer in propulsion since 2017, including as the Roman Space Telescope propulsion integration and test lead. She is a Subject Matter Expert on orbital welding.

COURSE FEES

\$600 per person for local onsite training

HOURS

Classroom Hours: 8 classroom hours

A practical training option is also available on a second day of training that can be used for certification.