Genesis Systems offers a variety of classes at our Davenport, Iowa headquarters. Whether you need safety, programming or maintenance classes, Genesis offers robot training from experienced instructors to help robot operators keep up to date with the latest best practices. With small, personalized classes, all Genesis training courses aim for 20% class time and 80% hands on time with robotic work cells, with a 2 to 1 student to robot ratio, so that all students get the knowledge they need to make an impact on your bottom line.

**Course Objectives**
- To prepare the student to take the AWS Certified Robotic Arc Welding (CRAW) Examination

**Main Topics**
- Welding safety
- AWS welding symbols and application of welding symbols
- Welding processes including, but not limited to GMAW, GMAW-P, FCAW and GTAW
- Shielding gas selection and application
- Implementing and understanding the relationship of amperage, voltage and travel speed along with torch angles
- Welding steel, stainless steel, cast iron and aluminum along with a discussion on preheat and post-heat
- Setting up weave tables, touch sense tables, seam tracking and coordinated motion with a discussion of automatic voltage control and adaptive fill
- Weld defects and discontinuities
- Troubleshooting welding problems
- Predetermining practical weld size limits
- Non-destructive testing (NDT) with a discussion on LT, UT, MT, RT and VT

**Course Duration**
- (4) days, Monday through Thursday
- 8:00 A.M. to 4:00 P.M.
- Test on Friday

**Student Profile**
- Intended for participants who want to become certified in robotic arc welding by AWS

**Prerequisites and Recommendations**
- Student should have welding background
- Basic and Advanced FANUC or Panasonic robot programming class