



**DAIHEN, Inc.**  
**ADVANCED WELDING & ROBOTIC SYSTEMS**  
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## DAIHEN TRAINING FACILITY ROBOT MAINTENANCE TRAINING COURSE DESCRIPTION

The *Robot Maintenance Training* course will provide students with the knowledge necessary to perform basic maintenance and troubleshooting procedures. This course is designed for those personnel responsible the daily up-keep of the robots as well as those tasked with performing preventive and corrective maintenance procedures. Familiarization with robot manipulation and programming using the teach pendant is reviewed during this course however; students should have a working knowledge of programming prior to attending. There is no prerequisite for the *Robot Maintenance Training Course* however, DAIHEN, Inc. recommends that all persons attend the *Basic Robot Programming Training Course* prior to the attending this course. **Please note this course is a NON-WELDING Course.**

Upon successful completion of this course, students will be able to perform the following tasks:

- Initial installation/power up of new controller.
- Proper *ABSO Offset* procedure.
- Proper *Torch Alignment* procedure.
- Writing a basic point check program (P998).
- Controller component identification.
- Location / function of test points.
- Power Source major component identification.
- Troubleshooting of robot controller.
- Position recovery after crash/maintenance.
- Proper procedure/cautions for changing a motor.
- Proper procedure/cautions changing a speed reducer.
- Proper preventative maintenance schedule.
- Auto TCP function and proper usage.
- Function of *Tool Parameters and Offset Values*.
- Back-up system and program data.

In addition to classroom lectures and discussions, there will be “hands-on” time for students to perform assembly/disassembly procedures as well as exercises in troubleshooting and repair.

A “Certificate of Achievement” is awarded to those students who successfully complete this 4 day course.

