



**DAIHEN, Inc.**  
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## OTC DAIHEN TRAINING FACILITY BASIC ROBOTIC PROGRAMMING COURSE COURSE DESCRIPTION

The *Basic Robotic Programming Course* is a basic programming course that teaches students how to safely manipulate the robot through proper use of the robot controller and teach pendant. This course is designed for personnel who are responsible for set-up, programming, editing, and daily operation of OTC DAIHEN robots. **Please note this course is a NON-WELDING Course.**

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

- Safely power up the robot and controller from a fully shutdown position.
- General Robotic safety within working envelopes
- Know the purpose and operation of the *Robot Controller*.
- Know the purpose and operation of the *Teach Pendant*.
- Know the purpose and operation of the *Start Box*.
- Jogging of the manipulator using different coordinate systems.
- Create a weld program and test.
- Program management (copy, delete, rename)
- Modify, add, and delete program steps.
- Program I/O instructions and commands.
- Create and use *Arc Command*.
- Create and use *Weave Command*.
- Perform *Torch Alignment* procedure.
- Perform *Origin Check Point* procedure
- Perform *Absolute Offset* procedure.
- Back-up system and program data.
- Alarm and error recovery procedures.

In addition to classroom lectures and discussions, there will be several “practical” programming and welding exercises.

A “Certificate of Achievement” is awarded to those students attending this 4 day course who successfully complete all “practical” exercises as well as a written final examination.