



DAIHEN INC.
ADVANCED WELDING & ROBOTIC SYSTEMS
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Robotic Options Course Syllabus

- A. 1. Course Title: Robotic Options Class
2. Course Number: Robotic Options.
3. Class hours: Monday–Wednesday 9:00 AM to 12:00 PM, 12:30 PM to 4:30 PM
- B. Prerequisites: none
- C. The *Robotic Options Class* is designed for Daihen customers who have completed the Robotic Programming 1 class and have purchased options for their robotic system(s).
- D. Textbooks (digital): All Options covered in class.
- E. Other Required Materials: None
- F. Course Objectives: The student shall be able to perform the following after completion of the course:
- a. Basic programming overview
 - b. Synchro- Motion Control.
 - c. Multi Unit principals and groupings
 - d. External Axis Shift
 - e. Endless Rotation
 - f. Software Compliance (As needed, material handling specific).
 - g. Auto Calibration
 - h. Touch Sensing
 - i. Cross Mastering
- G. Course outline
- a. Monday: Class introduction, Basic programming overview, Multi unit set up, synchro-motion programming
 - b. Tuesday: External Axis shift, Endless Rotation, and Cross Mastering
 - c. Wednesday: Touch Sense, (classroom lab) Auto Calibration, and Software compliance
- H. Other Requirements and Notes
- 1. Smoking is only permitted outside the building within the designated smoking area. Please use proper receptacles for ashes and cigarette butts. Smoking is not permitted indoors.
 - 2. Class participation and completion of all exercises is recommended

3. All safety rules must be followed at all times
 - a. Eye protection must be worn at all times while working in or walking through the lab or manufacturing areas.
 - b. Safety glasses are available at all entrances to the lab or manufacturing area and should be returned after use.
 - c. Leather, closed toe shoes must be worn at all times. Sandals or open toed shoes will not be permitted.
4. Lunch break will be 1 hour each day. Normal lunch hours will be from 12:00 PM – 1:00 PM. Students are responsible for lunch.
5. A student who misses more than ½ day of instruction may be removed from the class at the discretion of Daihen, Inc. management and asked to return to their normal workplace.
6. Please arrive no earlier than 15 minutes before class
7. Proper attire is required at all times while on the premises.
8. Shorts and sleeveless shirts will not be allowed at any time, this is a work environment and proper work attire is expected.
9. Clothing which may be offensive to other students will not be permitted. Students who wear objectionable clothing will be asked to return to their room and change into suitable clothing.