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TRAINING FACILITY ADVANCED ROBOTIC PROGRAMMING COURSE COURSE DESCRIPTION

The *Advanced Robotic Programming Course* is an advanced programming course that teaches students that have successfully completed the AX / AII Basic Programming course more in-depth methods of programming and system design set-up.

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

- a. Safely power up the robot and controller from a fully shutdown position
- b. Understand general robotic safety within working envelopes
- c. Know the purpose and operation of the teach pendant
- d. Basic programming overview, refresher
- e. Definition and theory of harmonious programming
- f. Input and Output signal assignment
- g. System Mastering (robot and external axis)
- h. Advanced logic commands and program structure
- i. Total system recovery/tool shift for program correction
- j. Advanced Input/Output programming for system allocation
- k. Teach pendant layout and customization
- l. System back-up and program data
- m. How to set-up and use user coordinate systems
- n. How to set-up and use home position fields
- o. How to create and use function grouping
- p. Use and manipulate program conversion functions

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