

## Product Workshops

Olympic Controls is dedicated to providing our clients with the highest quality machine automation training. We maintain a fully equipped, 1000 square-foot, classroom style training area at our Portland facility for the express purpose of expanding your knowledge base and increasing your comfort level and confidence with our products. We can also accommodate workshops at your facility and at other off-site facilities when requested.

### Motion Control

This workshop is based on Parker's multi-axis controller that's capable of controlling both servo and step motor systems. Through hands-on exercises, students will learn to work within the Motion Planner software environment, develop software code and apply hardware features. The 6K4 and OEM drives will be used unless other arrangements are made. The class is focused on programming issues. Tuition:\$200/person/day



### Machine and Process Control

This course introduces Siemens S7 product family and provides an overview of their hardware and software components. This course concentrates on STEP 7 software, program structuring and the instruction set. Software tools and programming instructions are demonstrated to guide the student through the development of a realistic application. Analog processing and alarming are detailed through theory and program examples. Students will use test, debug and diagnostic tools to complete the programming exercises. Tuition:\$200/person/day

### Machine Vision

This course is intended to introduce users to Cognex's In-Sight hardware and software. The basics of machine vision are discussed to provide students a solid foundation of each critical component – Camera, Lighting and Lens. Then through hands-on exercises students will apply In-Sight software tools to real life applications. Tuition:\$200/person/day

### Robotics

This workshop teaches the instruction and programming of Denso's robot controller. We will start with the fundamentals of robotic integration. Then through hands-on exercises students will learn the programming of the robot both with Windows based software and also a teach pendant. Application examples will also be used to reinforce the ease of integration of machine vision into robotic workcells. Tuition:\$250/person/day

**To register for a workshop, please visit our  
website for dates and times**

## Technology Seminars

Olympic Controls is also dedicated to helping our customers keep abreast of the latest advancements in machine automation technologies. The machine automation industry is a very dynamic industry and our job is to keep you updated on the most up-to-date technologies.

### Olympic Seminar

At Olympic Controls we consider ourselves technical leaders in the industry. However, our knowledge is only beneficial if we can share it with you! We host seminars a few times a year to bring you the latest and greatest trends and new technologies emerging in the automation industry. These are not sales presentations they are strictly technical. Our guest speakers are key individuals who are on the forefront of innovation. Once you visit one of these presentations you will never miss another one. Tuition: Free

### Solutions in Motion

The Solutions in Motion technology seminar is a technological review of modern motion control systems. This full day session covers: Steppers vs .Servos, Feedback Devices, Controller Types for various architectures (PLC, Bus-Based, stand-alone) and sizing and system selection. Application examples are provided to aid understanding. Slide/Video Presentation Format. Tuition: \$100/person/day

### Mechanics in Motion

The Mechanics in Motion technology seminar is a review of bearing and drive technologies available for modern day mechanical solutions. The five most popular bearing designs; Ball and Rod, Cross Roller, Round Rail, Square Rail and Air Bearing will be discussed. As well as the most popular drive mechanism designs; leadscrew, ballscrew, belt, rack-and-pinion, linear motor and piezo-electric motors will be reviewed. Gantry systems, laser mapped precision grade stages, closed loop linear feedback will also be covered. Application examples are provided to aid understanding. Slide/Video Presentation Format. Tuition: \$100/person/day

### Robotic Automation

Olympic Controls offers a seminar dedicated to the topic of modern robotic motion control in flexible automation work cells. Olympic Controls will cover topics related to the implementation of SCARA, Articulated, Cartesian, and Gantry-style robots. Discussion includes typical uses of these different types of robots with and without machine vision. Specific application examples are reviewed with each topic. Tuition: \$100/person/day

**To register for a seminar, please visit our  
website for dates and times**