



Test PLC programming skills on Factory I/O software

Scientech provides Factory Input Output 3D factory simulation software for learning automation technologies. It allows to quickly build a virtual factory using a selection of common industrial parts. Factory Input Output also includes many scenarios inspired by typical industrial applications ranging from beginner to advanced difficulty levels. The most common scenario is to use Factory Input Output as a PLC training platform since PLC is the most common controller found in industrial applications.

Factory Input Output software is a valuable teaching tool for training students, engineers, and technicians in several programs and courses such as Industrial Automation, Mechatronics, Electrical Engineering, Mechanical Engineering, Instrumentation and many more.

Factory Input Output offers 21 training systems based on real world industrial scenarios. Each system offers standard problems found in PLC programming. The systems are presented in order of increasing level of difficulty.

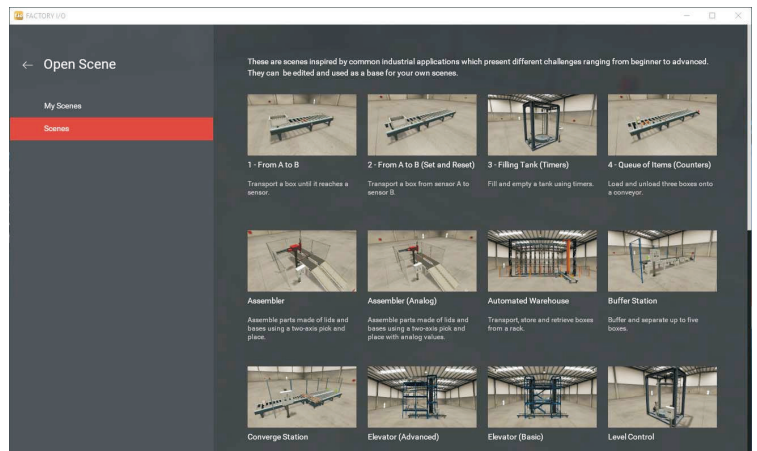
## Scope of Learning

- Understanding of Factory I/O environment.
- Learning how to use various elements of Factory I/O.
- Building industrial control systems.
- Interfacing Factory I/O with real PLC (Siemens/Allen bradley) using ethernet .
- Various exercises to learn PLC programming using Industrial application.

## Features

### 20+ ready-to-use scenarios

Factory I/O offers more than 20 scenarios inspired by typical industrial applications to practice real world control tasks. Use a scene as it is or as a starting point for a new project.



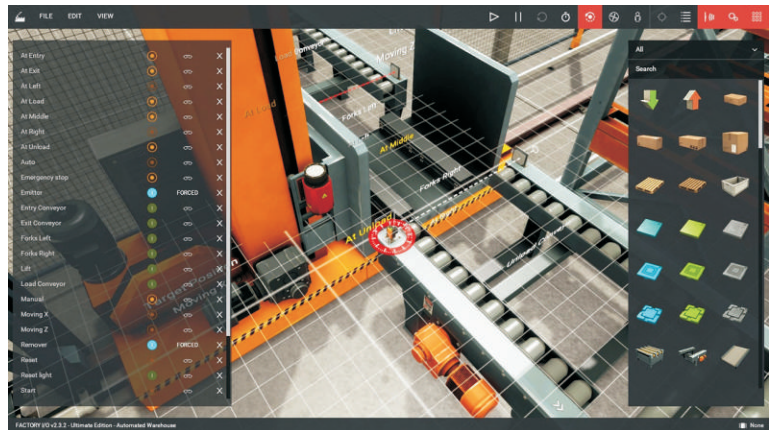
### Library of industrial parts



Create a virtual factory using a library of industrial parts, including sensors, conveyors, elevators, stations, and many others.

### Build your own scenarios

Factory I/O smart editing tools make building a 3D scene a comfortable and natural experience. Use a library of industrial parts and customize Factory I/O by creating your own training scenarios.



### Digital & Analog I/O



Most parts include digital and analog I/O. For example, use a digital value to start or stop a conveyor or an analog value to weigh items or control liquid levels.

## I/O drivers

Factory I/O uses drivers to interface with PLC, Modbus and many other technologies. Each edition includes a bundle of drivers for a specific technology (i.e. Allen-Bradley Edition, Siemens Edition, ...).



## Troubleshooting



Practice troubleshooting routines by easily injecting Always On and Always Off failures in sensors and actuators.

## Instructor mode

Lock several options with an instructor password. Challenge trainees to complete partially built systems, find malfunctions and failures.



## Easy integration



Easily integrate Factory I/O with existent training equipment. Plug and Play with Siemens and Allen-Bradley PLC (Ethernet).

**Note 1:** Factory Input Output is compatible with Scientech 2400B, Scientech 2400BH, Scientech 2400C, Scientech 2400CH, Scientech 2400E, Scientech 2400J and Scientech 2400EH.

**Note 2:** Factory Input Output is only a software. PLC is not included in it.