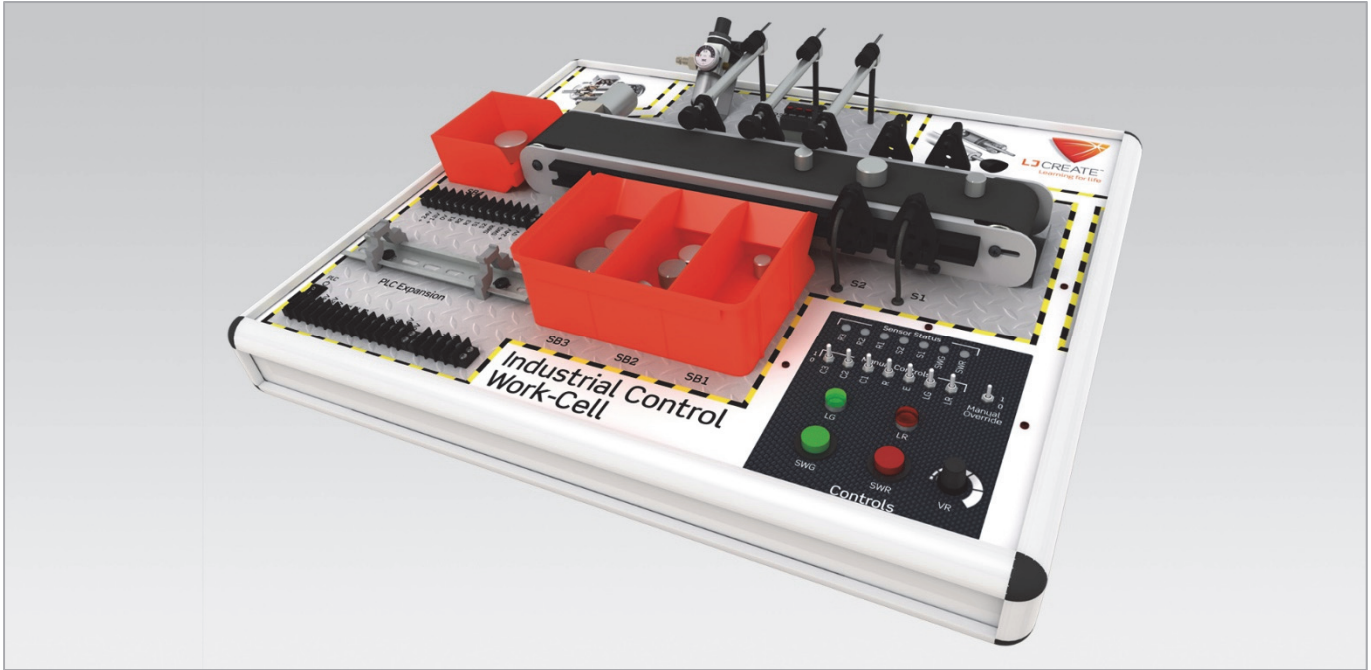


# Product Information Sheet

## Industrial Control Trainer



Our STEM learning packages have been designed to provide practical real world problem solving tasks and activities within the classroom or lab environment.

These activities will provide an engaging approach that helps instructors show contextualized linkages between Science, Technology, Engineering, and Mathematics.

Students will have access to hands on learning opportunities within our optional cloud-based STEM curriculum software packages. This easy to use software also contains theory presentations, virtual investigations, and support materials to underpin the practical tasks.

The Industrial Control Trainer offers a classroom based resource for practical investigation of automated control systems. Users can select from a range of prepared demonstration programs to explore how step-based ladder logic programs are used in automated systems. Alternatively students can create their own programs and see them in action using the included simulation package.

This trainer includes access to digital curriculum materials including theory and practical learning tasks, as well as tutor support resources.

### Typical Topic Areas Include:

- Industrial Controllers
- Logic (AND, OR and NOT)
- Truth Tables & Step Logic
- Latching Actuators
- Counting Parts
- Timing Events
- Measuring Part Width
- Sorting Parts

### Industrial Control Application Components:

- Manual Override Switch
- 7 x Manual Control Switches
- 7 x Input and Output LED Indicators
- 2 x Push to Make Buttons (1 x Red, 1 x Green)
- 2 x Lamp Indicators (1 x Red, 1 x Green)
- 1 x Analog Speed Control Knob
- DC Motor Controlled Conveyor Belt
- 2 x Infra-red Light Gates
- 3 x Pneumatic Cylinders with Reed Sensors
- 3 x Pneumatic Solenoids
- 1 x Pneumatic Pressure Gauge and Regulator
- Parts Sorting Bins
- Connection block and rack bar for PLC Extension

### Items Included:

- Industrial Control Sorting Application
- Power Supply
- USB Lead
- Accessory Kit (Includes conveyor shroud)
- Hand Operated Air Compressor
- Sorting Application Simulation Software
- Curriculum in Digital Format

### Other Items Required:

- LJ Create Engineering or Technology Content (Optional)
- Computer with Spare USB Port

### General Information:

Trainer Dimensions: 660 x 600 x 160 mm (W x D x H)  
Power Requirements: 110 – 240V 50-60Hz  
Packed Volume: Approx. 0.378 m<sup>3</sup>  
Packed Weight: Approx. 25.68 kg

**Order Code: 290-01**

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