

# Siemens S7 PLC ASI Bus Training | eBook Curriculum



eBook: E40874

The rapid exchange of data between a manufacturing facility's departments is an integral part of the production process. High-speed networks link sales, purchasing, shipping, production control, and the plant floor. The PLC ASI Bus eBook course (E40874) discusses ASI slave modules, ASI addressing units, an introduction to ASI troubleshooting, and multi-node and power supply troubleshooting.

## What is an AS-I?

The Actuator Sensor-Interface (AS-I or ASI) bus is a high-speed, deterministic, field-device network for connecting devices such as limit switches, photoelectric sensors, solenoid valves, and motor starters to a PLC. The PLC processor and AS-I master module are typically installed in a control cabinet. The sensors and actuators connect to the AS-I slave modules on, or near, the machine over the AS-I bus. The PLC processor reads the status of the controls, sensors, and actuators through the AS-I master module rather than using the I/O modules of traditional installations.

As an AS-I master module can connect to a maximum of 62 slave modules. Each slave module can contain up to eight input and eight outputs, allowing up to 992 I/O points on an AS-I bus. Each slave module is assigned a unique AS-I node address. The AS-I node address is typically programmed into each slave module using a handheld programmer during bus installation.

## In-Depth Curriculum

## Comprehensive PLC ASI Bus Curriculum

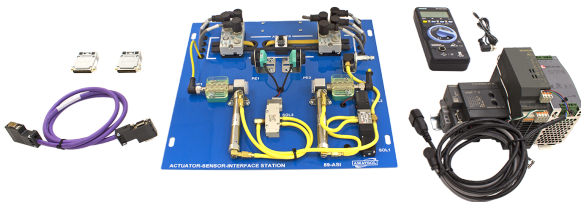
Amatrol's PLC ASI Bus curriculum teaches a variety of PLC ASI Bus topics, including: Link 20E module installation, configuration, and operation; AS-I slave modules; AS-I addressing units; AS-I I/O; AS-I Bus troubleshooting; and multi-node and power supply troubleshooting. Within these topics, learners will study objectives like configuring the Profibus address of the DP/AS-I LINK 20E module; changing the AS-I node address of a slave module using the addressing unit; and troubleshooting a PLC project that uses AS-I I/O to control the number of production cycles.

## Feature-Packed eBook Format Makes Learning Convenient

Amatrol's [eBooks](#) look like a real book and allow users to flip between pages with ease. Enhanced with features such as keyword searches and zoom controls that enable a user to quickly locate and view information, these eBooks are a fantastic learning tool. Amatrol's eBooks are available online and can be used by anyone with access to Amatrol's Learning Management System (LMS). Optionally, if you choose to use your own LMS, these eBooks are SCORM compatible to allow smooth integration into your current training system. Combined with our already extensive library of interactive multimedia titles, which are also SCORM compatible, users can now complete their entire course work online!

## Additional Info

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### Requires:

- Computer (see [Computer Requirements](#))

### Options:

- PLC ASI Bus Learning System - Siemens S7 (89-ASIS7)

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### Address

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