

## ASSA ABLOY EMS&OEM GROUP 2015 COURSE OFFERINGS

ASSA ABLOY is proud to offer the following educational courses covering Adams Rite®, HES® and Securitron® product lines. These courses will educate the attendee on various levels of product/technical knowledge, selling techniques, site survey, and system design and product installation.

### Basic Low Voltage Electricity for Installers – New and Improved

**Course length:** 4 hours  
**Class size limit:** 20 students  
**Credits offered:** ALOA #AATP-AA007  
ESA #13-3838.4 credits  
**Attendees:** Locksmiths, Installers, Access Control technicians  
**Content balance:** 40% instructional - 60% hands-on learning

#### *Course Description:*

This entry level course is designed to educate the participants in the basic electronic knowledge needed to wire an electronic locking system. The class includes a balance of instructional and hands-on exercises. The following subjects are covered:

- Key Figures in Electricity
- Voltage, Current and Resistance
- AC & DC Electricity
- Switches and Relays
- Normally Open – Normally Closed Circuits
- Fail Safe/Fail Secure lock wiring
- Hands-on basic system wiring and operation
- Series versus Parallel Wiring
- Use of Multi-meters – How to test
- Multi-meter Circuit Testing for Volts & Amps
- Electronic Components

**Note:** *This class requires a classroom style configuration for table-top hands-on work space for all participants. Access to multiple electronic outlets is required. Extension cords to be provided by trainer.*

To learn more about the training classes offered, please contact: [training@hesinnovations.com](mailto:training@hesinnovations.com).

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