



Access Control Specialist Level One: Course One – Access Control Overview

Course Description

The Access Control Specialist Level One certification begins with the Access Control Overview Module and concepts that are often ignored in electronic security training. Card readers are used to control openings that people, vehicles and even goods pass through. We will look at the physical structure of doors and frames and have a brief discussion of parking gates, mantraps and other controlling mechanisms. Electrified locking hardware gets a thorough exploration including egress methods and cautionary notes on Fire and Life Safety codes.

Physical access control (doors, etc.) will be contrasted with logical access control (PCs, networks and data) at a basic level. All of the components that make up an access system will be defined including credentials (cards, fobs, etc.) readers, controllers and user interface (host) systems. Many different card/reader technologies will be covered along with their comparative strengths and weaknesses. The Access Control Overview module is the foundation on which the rest of the Access Control Specialist Level One certification is built. Even experienced EAC (Electronic Access Control) professionals will learn some secrets and tricks here.

Course Objectives

At the end of this course, the student will be able to:

- Explain the difference between physical and logical access control
- Define basic door structures by material, dimension, frame, and secured or unsecured side
- Understand the basics of styles of locks
- Give an overview of strikes, maglocks, and magstrikes
- Provide an overview of Wiegand cards, Proximity cards, and Smartcards
- Explain the difference between readers, controllers, and annunciators

Course Outline

- Introduction
- Access Control Overview
 - Objectives
 - Physical Access Control
 - Logical Access Control
 - Door Position Switch
 - Egress
 - Basic Door Structures (BDS)
 - Material
 - Dimension and Construction
 - Frame
 - Secured/Unsecured Side
 - History of Locks
 - Traditional Lock Cylinder
 - Style of Locks
 - Bored
 - Mortised
 - Rim
 - Strikes
 - Maglocks
 - Magstrikes
 - Wiegand Cards
 - Proximity Cards
 - Smartcards
 - Readers
 - Controllers (Panels)
 - Request to Exit (REX)
 - Annunciators
 - Other Access Control Features
 - Turnstiles
 - Mantraps and Sally Ports
 - Parking Garage Entrances
 - Conclusion