



The IPVM access control course will meet live online 12 times over 6 weeks (Tuesday and Thursday from 1pm - 2pm EDT) teaching access control - regulations, doors, locks, readers, controllers, networking, management software and more. This report is a pre-requisites for the class:

- [Designing an Access Control System](#)

#### Week 1: **Credentials**

*Class 1 Readings:* Overview of the major types used in EAC systems, including emerging types like NFC.

- [Access Credential Form Factor Tutorial](#)
- [iClass vs. Prox Explained](#)
- [Proximity Card Vulnerabilities](#)
- [Global Credential Formats](#)

*Class 2 Readings:* Biometrics/Advanced Credentials

- [Multi-Factor Authentication Primer](#)
- [Fingerprints](#)
- [Palm Vein/Face Recognition](#)
- [Heartbeat](#)
- [NFC](#)

#### Week 2: **Readers and Controllers**

Discussion on the function of reader and door controller types, how they are best used, and how they integrate into network/power utility.

*Class 3 Readings:*

- [How to Select the Right Reader](#)
- [IP Readers vs. Control Panels](#)
- [Door Controller Configuration](#)

*Class 4 Readings:*

- [Combo Readers/Controllers Tutorial](#)
- [Proximity Readers Tutorial](#)
- [Keypad Tutorial](#)

### Week 3: Access Control Management Software

*Class 5 Readings:* Overview of the different parts of a typical management system, general function of each, how they interoperate, and the resulting impacts to the end-user.

- Access Control Management Software Guide
- [Access Control Levels and Schedules](#)
- [Maintaining Access Control Records](#)

*Class 6 Readings:* An overview of 'power features' that are often forgotten or are emerging as "difference makers"

- [Alerting Against Unlocked Doors](#)
- [Mustering](#)
- [Time & Attendance Tutorial](#)
- Integrated Video with Access Overview

### Week 4: Life Safety and Doors

General overview of the code fundamentals that dominate system designs and specification.

*Class 7 Readings:*

- [Life Safety Codes](#)
- [ADA/Accessibility](#)
- [International](#)
- [UL 294](#)
- [Fail Safe vs. Fail Secure](#)
- [AHJs / Authority Having Jurisdiction Tutorial](#)

*Class 8 Readings:*

- [How Doors Impact Access Control](#)
- [Door Hardware Grades Explained](#)
- [Specifying Door Locks](#)

## Week 5: Strikes and Maglocks

Discussion of EAC electrified locking components of door hardware.

*Class 9 Readings:*

- [Maglock Selection](#)
- [Exit Devices](#)
- [RTE Tutorial](#)

*Class 10 Readings:*

- [Electric Strike Selection](#)
- [Selecting the Right Type of Electric Lock](#)

## Week 6: Networking and Design Pitfalls/ Upgrading Systems

*Class 11 Readings:* (Networking) Review of wired/wireless connectivity, and the role of cabling types.

- [Access Control Cabling Examined](#)
- [Importance of Draining/Shielding](#)
- [Wireless Access Primer](#)
- [Hotel Access Control \(or how the credential replaces the network\)](#)

*Class 12 Readings:* (Design Pitfalls /Upgrading Systems) How to properly evaluate a facility for design of a new or updated EAC system.

- [The Passback Problem](#)
- [Combating the Door Prop Problem](#)
- [Access Control Killer: Tailgating](#)
- [Replacing Access Control Systems](#)