

IPVM

Access Control Course Fall 2021

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IPVM offers the most comprehensive access control course. Unlike manufacturer training that focuses only on a small part of the system, we look at the whole picture - design, operation, maintenance, and how all parts of an access system work together.

The course price is \$299. [Register now and save \\$50.](#)

A promotional banner for the IPVM Access Control Course. The background is a blurred image of a hand holding a smartphone in front of a door with an access control device. The text is overlaid on a dark red gradient. It includes the course title, dates, time, a discount offer, and a registration button.

ACCESS CONTROL COURSE

IPVM

Sept 14th - Oct 21st, 2021
1 PM - 2 PM ET

SAVE \$50

[REGISTER NOW](#)

Watch The Access Control Course Introduction:





[IPVM Access Control Course Introduction - YouTube](#)

What the IPVM Access Fundamentals Course Covers

In 12 sessions, we examine the following topics in-depth:

(1) Credential Basics

We start with the most common, but frequently misunderstood access component, teaching you the tradeoffs of iClass vs 125kHz Prox vs 13.56 Mhz vs Smartcards vs DESFire.

(2) Advanced Credentials

In this session, we build on the first class digging deeper into multi-factor authentication, credential vulnerabilities (e.g. the unencrypted but popular 125 kHz cards), and emerging technologies including mobile, BLE, and NFC.

(3) Readers

We then teach you how to select readers, explaining Wiegand vs. OSDP, and

contrasting the different types, shapes, and technologies behind readers including vulnerabilities and weaknesses like 'prox card snooping', identity spoofing, and keypad PIN 'tells'.

(4) Controllers

Moving onto controllers, we explain how they coordinate activities at openings, breaking down the differences between IP, hardwired, standalone, proprietary, or 'open'. You learn the major controller vendors, their tradeoffs, and (in)compatibility.

(5) Management Software

Here you learn the five core elements of access software: 1) Live View, 2) Door Management, 3) Cardholder Management, 4) Reporting, and 5) Access Levels & Schedules.

(6) System Operation

Then we pull together the entire system, teaching where decisions are made and key vulnerabilities exist such as tailgating and passback. You learn how to counter those vulnerabilities through door-prop alarms, forced-door events, using multiple credentials, and video surveillance integration.

(7) Life Safety Codes & Building Codes

We teach globally applicable access-specific safety laws, including the International Building Code (IBC) and NFPA 101 and NFPA 72. Regardless of where you are located, you will learn which codes apply, who to contact locally for clarity, and how to improve security while keeping people safe at the same time.

(8) Doors, Openings, & Locks

You need to know door hardware to do electronic access control systems. We teach you the core function of doors, frames, opening types, and the electrified hardware options to keep each type locked securely, regardless if they are hollow metal, solid wood, or glass doors. You will learn the security benefits of revolving doors, turnstiles, mantraps, electric locks, and exit devices.

(9) Electric Strikes

Strikes are a core component of access control systems. You learn the strengths, weaknesses, and applications that characterize this lock type. We cover how to choose the 'right strike' for your opening, how to avoid expensive installation mistakes, and where avoiding the use of strikes can prevent big problems.

(10) Maglocks

Many simply hate maglocks but you need to know how and when to use them. Often misunderstood, misused, and maybe even illegal, we teach the entire scope of electromagnet lock use in access, including bond ratings, voltage, operation, and action types.

(11) Networking & Cabling

You learn the role of cabling types in connecting access devices (e.g., 6 vs 4 vs 2 conductors), and why 'wireless' is different than 'wifi'. You will also learn how overlooked concepts like cabling shielding, drain wire use, and bonding/grounding are critical.

(12) Access System Design

In our capstone session, we pull everything together, describing how to select and use different access components and principles together for the best possible result in writing a specification, designing a new system, or just optimizing the one already in use. We teach you what to look for during the 'job walk', and how best to customize the design for your specific needs.

Who Should and Should NOT Take this Course

Even if you have lots of hands-on experience with access control and manufacturer training, you should take this course. It teaches access more broadly and in-depth than what regular fieldwork or product-specific training provides.

However, if you have no experience with access control, you should not take this course *unless* you can commit to spending 10 to 15 hours per week studying. We have had many people take this course without experience and do very well, but

only if they dedicate sufficient time to studying. You cannot pass this course simply by reading a few hours the night before the exam.

Course Instructor

The course will be lead by [Brian Rhodes](#) from IPVM. In addition to leading several IPVM courses, Brian also heads up access control coverage and testing. Before coming to IPVM, Brian worked as an engineer, designer, and manager of access, video surveillance, and intrusion projects for a security integrator.



Brian will lead each session, with others from IPVM moderating questions and providing feedback on related IPVM research and testing.

Course Calendar

The Access course will meet live online, starting September 14th, 12 times over 6 weeks (Tuesday and Thursday for 1 hour from 1pm ET to 2pm ET).

Sun		Mon	Tue		Wed	Thu		Fri	Sat
Sep 12	13	Basic Credentials 14		15	Adv. Credentials 16		17	18	
19	20	Readers 21		22	Controllers 23		24	25	
26	27	Management Software 28		29	System Operation 30		Oct 1	2	
3	4	Life / Safety & Codes 5		6	Doors & Door Hardware 7		8	9	
10	11	Maglocks 12		13	Electric Strikes 14		15	16	
17	18	Cabling 19		20	System Design 21		22	23	
24	25	Final Exam Review 26		27 Final Exam Opens	... 28		29 ...	30 ...	
31 ...	Nov 1 2		3 Final Exam Closes	4		5	6	

Classes Recorded

Additionally, all classes are recorded so you can watch on-demand online anytime.

Certification

At the end of classes, you will take a comprehensive final exam. If you pass, you will become IPVMU Access Control certified (see [list of IPVM Certified Professionals](#))

More About IPVM Courses



[IPVM Courses Introduction - YouTube](#)

Register Now

The member's price is \$299 - this covers classes, personal help, and certification.

A promotional banner for an IPVM Access Control Course. The background is a blurred image of a hand holding a smartphone in front of a door with a lock. The text is overlaid on a dark red gradient on the left side. It includes a circular icon of a hand holding a card, the course title 'ACCESS CONTROL COURSE', the IPVM logo, dates 'Sept 14th - Oct21st, 2021', time '1 PM - 2 PM ET', a 'SAVE \$50' offer, and a 'REGISTER NOW' button with a right-pointing arrow.

 **ACCESS CONTROL COURSE**

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If you are not already an IPVM member, registration also includes 1 month of IPVM membership. [Register Now and save \\$50.](#)

Questions

If you have any questions, please ask in the comments or email us at info@ipvm.com

Comments (14)

oluwatosin lawal

which reader is the best to use with turnstiles

Brian Rhodes IPVMU Certified

In reply to oluwatosin lawal

There are many factors to consider in this answer:

- 1) Credential type (card, biometrics?)
- 2) Reader Credential compatibility

- 3) Turnstile location (indoors vs outdoors)
- 4) Exposure and vibration risk
- 5) Controller connection (wiegand, clock & data, OSDP?)
- 6) Read range

Reader selection, and how it is a function of the opening/door/control point is a key element of this course.

Giving an off-cuff recommendation without considering these factors can result in a poor choice.

Mark Hillenburg

oops Found it...

Robert Lydic

I see the price for members is \$299 and a \$50 discount prior to the 7th. If I would like to gift this to employees, is the pricing the same or are they required to be members as well?

Thanks.

Rob

John Scanlan IPVM | IPVMU Certified

In reply to Robert Lydic

All students are required to be members. The course costs \$299 regular price and \$249 early bird. A \$99 quarterly membership is available for non-member students. This will cover the duration of the course. Please let me know if you would like help registering for class or have any other questions - I am happy to help. jscanlan@ipvm.com

Undisclosed Integrator #1

In reply to John Scanlan

Can/If we register for this class late will the final exam be extended for those of us who register late? Will you guys have another class available soon?

John Honovich IPVM |

In reply to Undisclosed Integrator #1

#1, the next class is this September and we are not allowing late registrations at this point. I apologize for the inconvenience.

You can [download the access control book](#) right away and read / study it yourself.

Undisclosed Integrator #3

In reply to John Honovich

Hello John, this link to study the access control book seems to relink back to this page. Would you mind resharing?

John Honovich IPVM |

In reply to Undisclosed Integrator #3

#3, thanks for your first comment and sorry for the error, that's been fixed and the book can be downloaded here [2020 Access Control Book Released](#)

Undisclosed End User #2

Hi, Do we need to watch the courses live or we can watch them on demand and pass the exam ?

Thx

John Scanlan IPVM | IPVMU Certified

In reply to Undisclosed End User #2

Thank you for your first comment. You can watch them on demand. We understand that schedules and other responsibilities can get in the way of attending live sessions, so we post the recorded version later the same day. If you have other questions please let us know.

James Scoggins IPVMU Certified

Is the \$249.00 still available?

Donald Maye

In reply to James Scoggins

James, thanks for your first comment! Yes- we leave the discount on the registration page for an extra day to catch stragglers.

Undisclosed Manufacturer #4

Hi, Can I avail any discount if I register now?
