

AI Tactical Skills: Drone Hacking & Defense Level 1

Course code: AIDEH

This intensive 5-day hands-on course, AI Drone Hacking & Defense (Level 1), will teach you how to build, configure, hack, and secure drones and unmanned aerial systems (UAVs). You will explore their technologies, communication protocols, and security vulnerabilities, and learn how to use artificial intelligence to analyze cyber threats and defend against attacks. During the course, you will build your own fully functional drone using the provided Drone Hacking Toolkit and gain access to the Premier Cloud Lab Range environment. The course concludes with a four-hour practical exam, upon successful completion of which you will earn the Cyber2 Labs Skilled & Certified™ Professional Certificate

Affiliate	Duration	Course price	ITB
Praha	5	59 500 Kč	50
Brno	5	59 500 Kč	50
Bratislava	5	2 380 €	50

The prices are without VAT.

Course terms

Date	Duration	Course price	Type	Course language	Location
07.12.2026	5	2 380 €	Presence	EN	GOPAS Bratislava
01.02.2027	5	59 500 Kč	Presence	EN	GOPAS Praha
21.06.2027	5	59 500 Kč	Presence	EN	GOPAS Praha

The prices are without VAT.

Who Should Attend

The AI Drone Hacking & Defense (Level 1) course is designed for anyone interested in drone cybersecurity, AI robotics, ethical hacking, and unmanned systems defense. It is suitable for technical specialists as well as individuals looking to gain practical experience with modern drone technologies and their security.

The course is particularly suitable for:

- Cybersecurity engineers and analysts
- Network administrators and system administrators
- Drone and robotics engineers and developers
- Drone operators
- Digital forensic investigators
- Penetration testers
- Cloud computing specialists
- Cloud project managers
- Operations and technical support professionals seeking career development

What You Will Learn

During this intensive five-day hands-on course, you will learn how to build, configure, operate, and secure modern drones and unmanned systems (UAV/UAS). You will explore their hardware, software, communication protocols, security vulnerabilities, and the possibilities of using artificial intelligence in cyber defense.

As part of the course, you will receive a Drone Hacking Toolkit, which you will use to build and configure your own fully functional drone. You will keep the assembled drone after completing the course.

You will learn how to:

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AI Tactical Skills: Drone Hacking & Defense Level 1

- Build, configure, test, and operate your own drone
- Understand the hardware and software components of drone systems
- Analyze communication protocols, radio signals, and flight telemetry
- Identify security vulnerabilities in drone hardware, firmware, and communication systems
- Use artificial intelligence tools for security analysis, automation, and threat assessment
- Perform security testing and apply ethical hacking principles to drone systems
- Design and implement defensive measures against cyberattacks
- Use a cloud-based laboratory environment for practical security exercises
- Troubleshoot technical issues and verify the functionality of drone systems

Prerequisites

No prior experience with robotics or unmanned systems (UAV/UAS) is required. The course introduces participants to the fundamental principles of building, configuring, and operating drone systems, their security, and the use of artificial intelligence.

Basic familiarity with IT, networking, or cybersecurity may be beneficial but is not a mandatory prerequisite.

Training Methods

The course is delivered as an intensive five-day hands-on training program based on the learning-by-doing approach.

Training combines essential theoretical knowledge with practical exercises, hands-on work with real hardware and software, and solving simulated operational and security scenarios.

During the course, participants will independently build, configure, and test their own drone using the provided Drone Hacking Toolkit. Components requiring soldering will be prepared in advance. Practical exercises also use the specialized Premier Cloud Lab Range environment and artificial intelligence tools.

The course requires full and active participation throughout all five days of training.

On the final day, participants take a **four-hour practical Cyber2 Labs Skilled & Certified™ exam**, which assesses their ability to apply the acquired skills in real-world situations.

During the exam, participants demonstrate their ability to build and configure a drone, operate it, troubleshoot technical issues, apply security and defense measures, and present a fully functional drone.

Upon successfully passing the exam, participants receive the **Cyber2 Labs Skilled & Certified™ Professional Certificate**.

Participants who do not pass are entitled to one free retake.

After completing the course, participants also receive a **standard GOPAS Certificate of Attendance**, regardless of the outcome of the professional certification exam.

Training Materials

Each course participant will receive:

- **Drone Hacking Toolkit**
 - a hardware kit for building a fully functional drone. Participants will assemble, configure, and test their own drone during the course. They will keep the assembled drone after completing the training.
- **Access to Premier Cloud Lab Range**
 - a specialized cloud-based laboratory environment for practical security exercises.
- **GOPAS Certificate of Attendance**
 - standard confirmation of course attendance and completion.
- **Opportunity to earn the Cyber2 Labs Skilled & Certified™ Professional Certificate**
 - a professional certificate awarded upon successful completion of the final practical exam.

The contents of the hardware kit may vary depending on the availability of individual components. Functionally equivalent alternatives may be provided.

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Course Outline

Introduction to Drone Technologies and Building Your Own Drone

- Introduction to drones and their components
- Fundamental principles of drone operation and control systems
- Hands-on assembly of your own drone using the provided Drone Hacking Toolkit
- Configuration, testing, and operation of drone systems

Communication Systems, Networks, and Drone Security

- Drone communication protocols and their vulnerabilities
- Wireless network security, drone data protection, and AI-assisted analysis
- Intercepting and decoding drone radio signals using AI
- Authentication and authorization in drone systems
- Securing drone data storage and transmission

Hardware Security, Firmware, and Ethical Hacking

- Drone hardware security and hacking techniques
- Identifying and exploiting vulnerabilities in drone firmware
- Drone operating systems and their security risks
- Physical drone security and protection against unauthorized tampering
- Legal and ethical aspects of drone hacking
- Case studies and examples of AI-assisted drone hacking

Artificial Intelligence and Drone System Analysis

- Using AI tools for drone operation, analysis, and security
- AI-assisted analysis of drone flight data and telemetry
- Using artificial intelligence for automation, data evaluation, and decision support
- Future trends in drone cybersecurity, AI, and ethical hacking

Cyber Defense and Security Measures

- Best practices for securing drones and AI systems against cyberattacks
- Protecting drones against cyber threats using AI, encryption, and other technologies
- Countermeasures and defensive strategies against drones using AI agents
- Integrating drone security into broader cybersecurity frameworks using AI
- Training drone pilots and operators in cybersecurity best practices
- Ensuring privacy and security in drone-based public services

Skilled & Certified™ Final Practical Exam

- Four-hour practical exam assessing acquired skills
- Assembly and configuration of a drone platform
- Drone operation and technical troubleshooting
- Application of drone system security and defense principles
- Demonstration of a fully functional drone
- Opportunity to earn the Cyber2 Labs Skilled & Certified™ Professional Certificate upon successfully passing the exam

The AI Drone Hacking & Defense (Level 1) course by Cyber2 Labs is offered by GOPAS Computer School in collaboration with Cyber2 Labs.

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