TACTICAL SKILLS

AI DRONE

HACKING & DEFENSE LEVEL 1

Build, operate, and secure modern drone systems using the latest AI tools in real-world tactical environments. Prove your skills by building your own drone and passing a practical Skilled & Certified™ examination.

5 DAYS | Online / In person / Hybrid | LEVEL 1

The Level 1 AI Drone Hacking & Defense 5-day hands-on program is built on a learning-by-doing methodology, focused on real skills through practical exercises, real hardware, and operational scenarios.

The process covers core UAV/UAS hardware and software technology, drone security, RF communications, AI tools, and tactical applications.

The program integrates the latest AI tools used in modern operational environments for analysis, automation, and decision-making.

Content is continuously updated to reflect developments in drone technology, cybersecurity, AI, and RF systems.

EACH PARTICIPANT GETS:

- **DRONE HACKING TOOLKIT**
- **Access to Premier Cloud Lab Range**

Each attendee receives a **DRONE TOOLKIT** and builds a fully functional drone during the course, which they keep after completion.

The course ends with a practical **SKILLED & CERTIFIED™ EXAMINATION**.

The goal is simple: Build real-world skills!

TACTICAL SKILLS

AI DRONE HACKING & DEFENSE LEVEL 1

OUTLINE

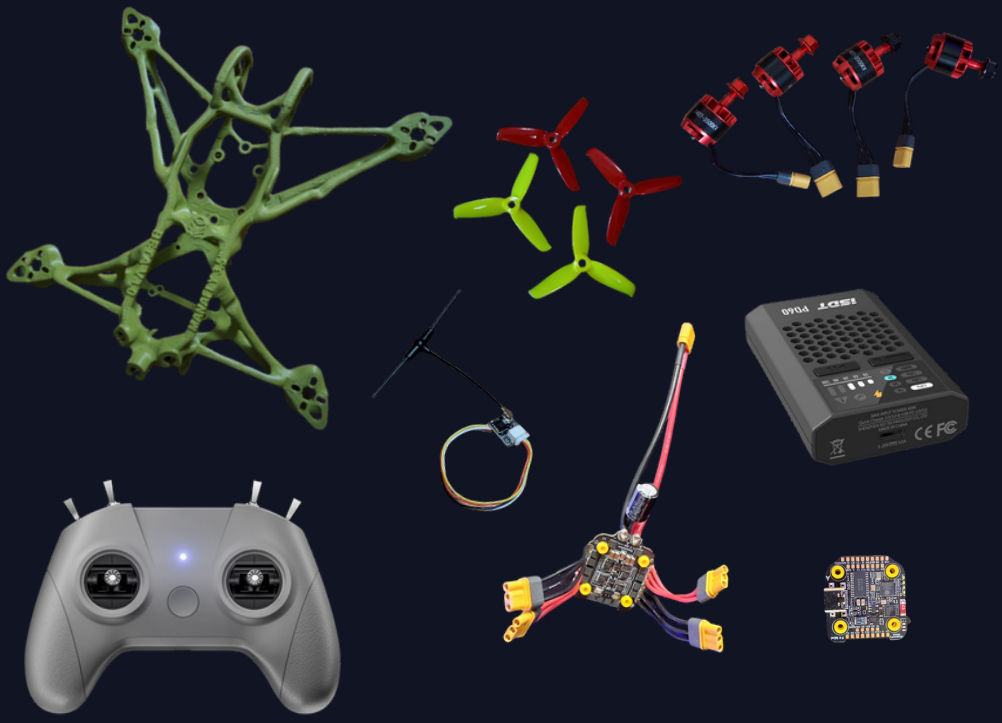
- Introduction to drones and their components
- Basic principles of drone operation and control systems
- Drone communication protocols and vulnerabilities
- Wireless network security and drone data protection and AI analysis
- Drone hardware security and hacking techniques
- Identifying and exploiting drone firmware vulnerabilities
- Physical drone security and tamper-proofing
- Legal and ethical considerations of drone hacking
- Drone hacking case studies and examples fused with AI
- Best practices for securing drones, AI and protecting against cyberattacks
- Protecting drones from cyber threats using AI, encryption and other technologies
- Drone countermeasures and defense strategies using AI agent skills
- Integrating drone security into broader cybersecurity frameworks and enhance with AI
- Future trends and developments in drone cybersecurity, AI and hacking
- Drone operating systems and their security risks
- Analyzing drone flight data and telemetry using AI
- Intercept and decode drone radio signals with AI
- Authentication and authorization in drone systems
- Securing drone storage and data transfer
- Training drone pilots and operators in cybersecurity best practices
- Ensuring privacy and security in drone-based public services

TACTICAL SKILLS

AI DRONE HACKING & DEFENSE LEVEL 1

CYBER2 LABS TOOLKIT

- Access to Premier Private Lab-Range
- **DRONE HACKING TOOLKIT** - Build your own drone



SpeedyBee

F405 MINI BLS 35A STACK

Drone batteries are not included due to local and international shipping and transportation regulations. Please obtain one "**800 to 1300 mAh 3S XT 30**" **battery** locally before the course.

Toolkit contents may vary based on availability. Equivalent components may be substituted.

TACTICAL SKILLS
AI DRONE HACKING & DEFENSE LEVEL 1

SKILLED & CERTIFIED™ PRACTICAL EXAM

The course concludes with a 4-hour practical Cyber2 Labs Skilled & Certified™ examination, during which candidates demonstrate their abilities using a fully operational drone system in realistic operational scenarios. Unlike traditional certifications that primarily assess theoretical knowledge, the Skilled & Certified™ program validates practical competence and real-world capabilities.

To earn the **Cyber2 Labs Skilled & Certified™ Professional certificate**, candidates must demonstrate the ability to:

- Assemble and configure a drone platform
- Operate and troubleshoot drone systems
- Apply drone security and defense concepts
- Demonstrate a fully functional drone

One free examination retake is included.

Successful candidates earn the **Cyber2 Labs Skilled & Certified™ Professional** credential, verifying their practical skills.

TARGET AUDIENCE

- Cyber Security engineers / analysts
- Network and system administrators
- Drone & Robotic Engineers & Developers
- Drone Operators
- Digital Forensics Investigators
- Penetration Testers
- Cloud computing personnel
- Cloud project managers
- Operations support looking for career advancement

No prior experience with robotics or UAVs is required.
Learn the fundamentals of building and modifying robotic systems, applying AI, planning drone operations, and understanding security, ethical hacking, forensic analysis, detection, and defense.

TACTICAL SKILLS

AI DRONE HACKING & DEFENSE LEVEL 1

WHAT YOU WILL GAIN

- Practical UAV/UAS, drone security, AI, and RF skills
- Hands-on experience with the latest AI tools used in drone operations, security, automation, and tactical environments
- Hands-on experience building, configuring, testing, and operating drone systems
- Understanding of modern drone threats, vulnerabilities, and defense concepts
- Skills that can be applied immediately in real-world environments
- A Drone Toolkit included in the course fee

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- Access to Premier Cloud Lab-Range
- Obtain the EU-recognized A1/A3 Remote Pilot Certificate (EASA)
- Cyber2 Labs Skilled & Certified™ Professional certification awarded upon successful completion of the final examination

Build your AI Tactical Skills

The AI Drone Hacking & Defense Level 1 course is step one, followed by an advanced practical program:

AI Drone Hacking & Defense Level 2