

Smart Border Security and Surveillance with AI, Drones, and IoT

COURSE OVERVIEW

This course explores the integration of advanced technologies in securing borders and monitoring cross border activities. It examines both the opportunities and challenges of adopting intelligent systems for national security, including ethical, regulatory, and operational considerations. Through factual case studies and simulations, participants will be equipped with a practical knowledge of how artificial intelligence, unmanned aerial vehicles (UAVs), sensor networks and Internet of Things (IoT) devices can be deployed to enhance situational awareness, detect threats and support rapid decision making.

WHO SHOULD ATTEND?

This course is designed for border security officials, law enforcement agencies, defence and homeland security professionals, policymakers, technology solution providers, and system integrators who are involved in safeguarding borders or designing surveillance systems. It is also valuable for researchers, security consultants, and decision makers seeking to understand emerging technologies shaping modern border security strategies.

COURSE OUTCOMES

Delegates will gain the skills and knowledge to:

- Understand how AI, drones, and IoT enhance smart border security and surveillance.
- Use unmanned systems and sensors for real-time monitoring and threat detection.
- Apply AI analytics for predictive surveillance and risk assessment.
- Integrate multi-sensor data into centralized command and control systems.
- Ensure interoperability, cybersecurity, and data protection in border operations.
- Address legal, ethical, and human rights issues in technology-driven security.
- Design tech-enabled border systems to strengthen awareness and national safety.

KEY COURSE HIGHLIGHTS

At the end of the course, you will understand;

- Designing integrated security systems that unify AI, drones, and IoT.
- Implementation of AI-driven video analytics for real-time threat detection.
- Management of autonomous drone swarms for automated patrols and response.
- Deployment and management of IoT sensor networks for early-warning perimeters.
- How to develop predictive models to forecast and pre-empt security breaches.
- Fusion of multi-source data into a single, actionable operational picture.
- Navigating the ethical and privacy considerations of automated surveillance.

All our courses are dual-certificate courses. At the end of the training, the delegates will receive two certificates.

1. A GTC end-of-course certificate
2. Continuing Professional Development (CPD) Certificate of completion with earned credits awarded