



GSDM | GLOBAL SECURITY AND
DISASTER MANAGEMENT LTD

PREVENTING DISASTERS, PROTECTING LIVES
RESILIENCE SOLUTIONS DELIVERED WITH INTEGRITY



Drone/Counter-Drone Training Packages

The drone industry is experiencing exponential growth, a trend set to continue, including the increasing variety of drones and their increasing capabilities together with drone management and defence systems. Whilst these technological innovations offer enhanced opportunities and capabilities for their users, they also present an increasingly complex threat and risk environment as well as a competitive landscape in which expensive and reputationally damaging mistakes can be made by organisations.

One significant way in which drone related opportunities may be fully realised, and the associated risks better mitigated, is through effective, targeted training. Our talented GSDM team of highly experienced and operationally proven multi-disciplinary experts deliver world-class training. The diversity of topics can range from protection of strategic assets, such as Critical National Infrastructure (CNI), from drone attack to the optimised exploitation of drones to deliver operational effects.

We offer a number of high-quality off-the-shelf training packages which can be tailored to your specific client needs (at the strategic, operational and tactical levels). For clients with particular requirements, the breadth and depth of our expertise allow us to develop bespoke training packages across a broad range of drone and counter-drone related topics. Our current off-the-shelf training packages include:

Drone/Counter-Drone Awareness (3 hours)

Purpose: Recent drone incidents have demonstrated that organisations typically either over- or under-react, both responses can be counter-productive with resultant loss and damage. Disproportionate responses are often attributable to an organisation's lack of basic drone awareness, including poor drone recognition or basic misunderstanding of the capabilities of different drones. This course equips people to redress this basic knowledge and skills gap.

Who is this for? This course is of use at all levels within organisations: strategic, operational and tactical (boardroom, management and service delivery) personnel. Whilst many organisations would benefit from this introductory course, it is especially suitable for those involved in the protection of Critical National Infrastructure, festivals, sporting and other major events.

Training objectives: This course establishes firm foundational knowledge upon which to build further drone/counter-drone resilience knowledge and capability. In particular, it helps participants identify organisational knowledge gaps; learn about different drone types and capabilities; distinguish between drone myth and reality, including associated threats and risks; grow in confidence and competence in recognising and differentiating between drone types; understand the concept of resilience and its relationship with counter-drone responses; and encourage organisations to self-critique their drone/counter-drone priorities and approaches.

Syllabus: Drone definitions; the importance of drone awareness; classification of drone types; drone capabilities myth versus reality; how drones may be used for good and nefarious/nuisance purposes; drone regulations; counter-drone resilience; and the current/evolving threat and risk landscape.

Drones and Surveillance (3 hours)

Purpose: Drone technology is developing at a rapid pace, including surveillance capability for the deployment of drones in sensitive roles by public and private sector organisations. This has been evident, for instance, during the Covid-19 pandemic when drones have been deployed by a number of countries for surveillance purposes. They are used increasingly too by many law enforcement agencies and remain a potentially powerful instrument in the hands of those with criminal intent. This course examines current drone surveillance capabilities and how they may be deployed for such purposes.

Who is this for? This course is of use at all levels within organisations: strategic, operational and

tactical (boardroom, management and service delivery) personnel involved in or wishing to better understand drone capabilities and their potential deployment for broad ranging surveillance purposes.

Training objectives: The course: gives a brief introduction to basic drone awareness before introducing participants to foundational concepts of surveillance; examines different drone types and their surveillance capabilities, exploring what is myth and what is reality in terms of technological innovation; helps participants identify organisational knowledge and capability gaps, and to grow in confidence and competence in their understanding and deployment of drones for surveillance purposes; considers what countermeasures exist which those under surveillance may use.

Syllabus: A brief introduction to drone awareness; overt surveillance (e.g. for law enforcement); covert surveillance (e.g. intelligence gathering, covert operations, crime prevention, visual control of remote locations, evidence capture); drone capabilities (commercial off-the-shelf commercial and recreational, bespoke); when a drone is and is not covert; drone technical limitations; drone surveillance counter-measures.

Rural Crime Prevention through Drone Surveillance (3 hours)

Purpose: Rural crime is on the increase and poses significant crime prevention challenges. Already in use in some regions, use of drones for rural crime prevention purposes can offer a number of benefits as well as associated challenges explored in this course.

Who is this for? This course is aimed especially at operational and tactical level policing, local council management and enforcement officers, companies with rural premises and/or high value rural activities, and farming/local communities affected by rural crime currently using, considering using or wishing to learn more about the use of drones in crime prevention.

Training objectives: As for Drones and Surveillance, aimed especially at equipping personnel on decision-making processes as well as operational capabilities and challenges associated with the use of drones in rural crime surveillance, evidence gathering and deterrence.

Syllabus: As for Drones and Surveillance; consideration of different scenarios in which drones may be deployed for rural crime prevention (e.g., fly tipping, agricultural crime, burglary, poaching, etc); potential benefits, including evidence-gathering and deterrence, together with key challenges associated with drone deployment in this context.

Drone Privacy Intrusion and Data Acquisition (3 hours)

Purpose: Drones (or Unmanned Aerial Vehicles) have the advantage of being a low profile and standoff threat package. With a low noise signature and small size, drones can be easily lost in the noise of our daily lives. Unless dedicated sensors are used, and staff are trained to be vigilant to a drone's presence, they will remain largely undetectable by people or companies going about their normal daily operations. Consequently, drones pose a growing threat for law enforcement and business security, including from a cybersecurity perspective. Of particular relevance to this course is their potential to facilitate privacy intrusion and acquisition of potentially sensitive and valuable commercial data such as intellectual property and market-leading concepts necessary to achieve and maintain a competitive edge. This course examines what drones are (or will be soon) really capable of, the associated risks and how they may be mitigated against.

Who is this for? This course is of use at all levels within organisations: strategic, operational and tactical (boardroom, management and service delivery) personnel concerned with preventing privacy intrusion and the compromising and/or theft of sensitive commercial data.

Training objectives: The course gives a brief introduction to basic drone awareness; it examines different drone types and their capabilities for privacy intrusion and data acquisition enabling participants to distinguish between what is myth from what is reality in terms of technological capability and innovations; it further equips participants to better understand the sensors available to hackers especially their deployment by drones, thereby growing in confidence and competence to proactively identify and manage these risks proactively; it helps organisations to identify areas of potential organisational vulnerability and assists them in taking appropriate remedial action to enable integrated risk management and increased resilience; it explores counter-measure options available to organisations facing the threat of privacy intrusion and data acquisition.

Syllabus: A brief introduction to drone awareness; drone capabilities (commercial off-the-shelf, modified and DIY); the use of drones to deploy a suite of devices (e.g. cameras or listening devices) covertly into an organisation, including



to establish patterns of life for targeted remote attacks e.g. against employees ('watch and wait' tactics); identification of the tools available to hackers for covert surveillance together with the gaining of audio and visual information; counter-measures.

Drone Privacy Intrusion (3 hours)

Purpose: Drones are becoming an increasing reality in everyday life. The pace of technological innovation at relatively low cost, particularly of their listening and photographic capabilities, poses particular issues for individuals wishing to retain their personal privacy. There are many recent examples of high-net worth individuals/VVIPs, celebrities, those accused of high-profile crimes or indiscretions all having privacy invaded through the use of drones (e.g., by the media). Beyond this, the same drone capabilities can be used by those intent on nefarious purposes, such as the commission of crimes, disruption or nuisance, or blackmail.



Who is this for? This course is of use at all levels within organisations: strategic, operational and tactical (boardroom, management and service delivery) personnel such as law enforcement agencies or private security companies offering close protection, agents as well as high-profile individuals who have been or may be subjected to privacy intrusions.

Training objectives: The course gives a brief introduction to drone awareness before examining different drone types and their capabilities (especially audio and photographic) for privacy intrusion, enabling participants to distinguish what is myth from what is reality in terms of technological capability and innovation; it better equips participants to better understand the tools available to those intent on privacy intrusion, such as freelance paparazzi or criminal gangs, enabling them to identify potential gaps and vulnerabilities with their existing security and privacy arrangements with greater assurance; it explores counter-measure options available to individuals and organisations facing the threat of privacy intrusion.

Syllabus: A brief introduction to drone awareness; drone capabilities (commercial off-the-shelf, modified and DIY); the use of drones to deploy devices (e.g. cameras or listening devices) aimed at privacy intrusion either overtly or covertly; case study examples; available counter-measures.



“Red Team” and Simulated Training Exercises (SIMEX)

We design and deliver “Red Team” exercises and SIMEXs on broad ranging drone/counter-drone scenarios tailored to your needs, e.g. nuisance, malicious disruption or weaponised attack, using commercial off-the-shelf, modified and/or DIY drones. These are effective ways of testing your organisational capability - together with your plans, systems and assumptions - as part of your resilience planning and preparation.

Joint Packages

We offer our training courses and SIMEXs as either standalone sessions or as packages, lasting from a few hours to several days. These can be combined with practical drone demonstrations as well as drone penetration testing. For further details and to discuss your specific needs, please get in touch with us.

Why use us?

Global Security and Disaster Management Ltd (GSDM) is an independent training and consultancy company offering resilience solutions in response to conventional and emerging threats, risks and vulnerabilities, especially man-made and technological risk including drones.

Totally independent, impartial and highly ethical, we work together with our clients to develop innovative and impactful solutions. This approach not only prevents or mitigates against potential drone incidents with their associated loss and damage, but also maximises available resources through building your capability, saving you money and helping your team to become more drone/counter-drone aware, confident and self-sufficient.

The breadth and depth of our team’s expertise enables us to deliver high-quality training based on current drone capabilities and associated risks, threats and opportunities, all tailored to specific client context and priorities.

For more details, see www.gsdm.global or get in touch with us at sales@gsdm.global or 02381 920192



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