TECHNOLOGY IN TACTICAL OPERATIONS

COURSE OVERVIEW AND INSTRUCTIONAL GOALS

COURSE LENGTH: 16 Hours (2 Days)
4 Hours Classroom
12 Hours Practical

COURSE OVERVIEW

This two-day course will provide hands on instruction deploying technology to include robotics, throw phones, listening devices, MESH networks, camera systems and computer applications in hostile environments. Students will learn how to deploy and work behind technology in a safe manner. Students will also learn how technology can improve tempo and situational awareness, and the importance of selecting the proper equipment.

INSTRUCTIONAL GOALS

Upon completion of this course the attendee will be familiar with:

1. The different types of SWAT technical equipment
2. Developing a technical support team
3. The different types of tactical electronics available to SWAT Teams and the different uses
4. Practical uses of electronic equipment in a SWAT scenario
5. How to utilize and promote the use of SWAT technology to your agency and the issues associated
6. Nomenclature of a technical equipment
7. How the technology operates, the required operating frequencies, distances and limitations with each piece of equipment
8. The use and limitations of Command Kits
9. Safely deploying technology in a hostile environment
10. Maneuvering the technology in a hostile situation and overcoming obstacles
11. Extricating the technology and decontamination

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DAY TO DAY / HOUR TO HOUR AGENDA

DAY ONE

Hours:	**Instruction:**
0800-1200	Introductions, Course Overview
1200-1300	Lunch (not provided)
1300-1330	Safety Briefing and Team Assignments
1330-1530	Throw Phone Deployment and Retrieval
1530-1700	MESH Camera Setup and Operation

DAY TWO

Hours:	**Instruction:**
0800-0830	Safety briefing, Team Assignments and Review
0830-1200	Tactical Robot Deployment and Retrieval
1200-1300	Lunch (not provided)
1300-1430	Pole and Under the Door Camera Operation
1430-1600	Listening Device Deployment
1600-1630	Command Kits and Robot Decontamination
1630-1700	Course Close-out

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COURSE OUTLINE

I. Preface

A. Course Overview
B. Instructional Goals
C. Agenda
D. Outline
E. Co-Host Logistics

II. Technology in Tactical Operations

A. Developing a Technical Support Team
    i. Defining Responsibilities
    ii. Knowledge and Experience Levels
    iii. Operator Vs. Tech
B. Benefits
C. Types of Equipment
    i. Long Range Acoustical Devices
    ii. Window Mics
    iii. Throwable Cameras
    iv. Pole Cameras
    v. Under Door Cameras
    vi. Pin Hole Cameras
    vii. Throw Phones
    viii. Thermal Detection
    ix. Infrared Cameras
D. Purchasing Considerations
    i. Batteries
    ii. Frequencies
    iii. Water Resistance
    iv. Camera Type, Resolution and Lighting
    v. Nomenclature
E. MESH Systems
F. Robotics
    i. Recon Scout
    ii. Throwbot
    iii. Command Monitoring Station
    iv. Recon Scout Command Module
    v. 110 First Look
    vi. Avatar
    vii. Mini-Caliber
    viii. 510 Packbot

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ix. SIRE Multifunctional Robot
x. MK3 Caliber
xi. Caliber T5
xii. Andros
xiii. HD-1 Remotec

G. Drones
i. Basic Functions and Limitations
ii. Deploying and Maneuvering in A Hostile Environment
iii. Extricating and Decontamination

III. Safety Awareness

IV. Practical Exercises

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TECHNOLOGY IN TACTICAL OPERATIONS

CO-HOST LOGISTIC REQUIREMENTS

CLASSROOM

Adequate seating for up to 34 students with tables, good ventilation
Marker board and markers
Flip chart with paper

AUDIO VISUAL

LCD Projector for computer presentation
Large projection screen (minimum of 6'x6' screen size)
Speaker system to connect to laptop for audio
Extension cord and power strip
AV table or cart

OTHER

Access to copier
Residence or business suitable to simulate a hostile situation with tactical teams approaching and deploying equipment for the afternoon of day one and all of day two
Electricity and extension cords for battery charging
Radios for team communication

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TECHNOLOGY IN TACTICAL OPERATIONS

STUDENT EQUIPMENT LIST

INDIVIDUAL

Law Enforcement ID
Tactical Uniform
Ballistic vests, helmet

TEAM EQUIPMENT

Ballistic Shields (if available)

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