



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



TECHNOLOGY IN TACTICAL OPERATIONS DAY TO DAY / HOUR TO HOUR AGENDA

DAY ONE

Hours:

0800-1200

1200-1300

1300-1330

1330-1530

1530-1700

Instruction:

Introductions, Course Overview

Lunch (not provided)

Safety Briefing and Team Assignments

Throw Phone Deployment and Retrieval

MESH Camera Setup and Operation

DAY TWO

Hours:

0800-0830

0830-1200

1200-1300

1300-1430

1430-1600

1600-1630

1630-1700

Instruction:

Safety briefing, Team Assignments and Review

Tactical Robot Deployment and Retrieval

Lunch (not provided)

Pole and Under the Door Camera Operation

Listening Device Deployment

Command Kits and Robot Decontamination

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



- 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



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



TECHNOLOGY IN TACTICAL OPERATIONS

STUDENT EQUIPMENT LIST

INDIVIDUAL

Law Enforcement ID
Tactical Uniform
Ballistic vests, helmet

TEAM EQUIPMENT

Ballistic Shields (if available)