

# Santa Cruz County Sheriff's Office

*PAN Disruptor*

## Expanded Course Outline

10 Hours

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### **Course Title:**

PAN Disruptor

### **Course Goal(s):**

1. Familiarize team members with applications of PAN Disruptor and different configurations of the tool.
2. Provide hands on learning and experience through classroom-based teaching to reinforce hands on exercise performed last training
3. Familiarize team members about 3D printer, its uses and abilities.

### **Audience:**

1. Bomb Tech:
  - a. Huntsman/ Lopez/ Zigman / Madison
2. Bomb Support:
  - a. Schirmacher / Patzke / Moise / Christiansen
3. Unavailable:
  - a. Smith /

### **Core Competencies:**

1. PAN Disruptor and PAN Rounds
  - a. Safety Protocols
  - b. Appropriate application
  - c. Dual Pan Calculations
2. 3D Printer
  - a. Importing designs
  - b. Creating your own designs
  - c. Printer Maintenance

### **Date**

January 21<sup>st</sup>, 2026

### **Total Hours of Instruction:**

10

### **Schedule:**

0700 – PT

0815 – Classroom Instruction

1100 – Lunch

D. Madison 01/20/2026

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1200 – 3D Printer Overview

1700 – ENDEX

#### **Location:**

5200 Soquel Ave, Santa Cruz

#### **Forecast:**

Cloudy. High around 56F. 10 percent chance of rain with 8 MPH winds.

#### **Uniform:**

- Bomb Team Green T Shirt

#### **Instructors:**

- D. Madison

#### **AAR:**

- Christiansen

#### **Netcom notification**

- D. Madison

#### **Mandated Training**

- YES

#### **Method of Presentation:**

- Visual / Verbal / Hands on instruction. Participants will be shown the proper method and then instructed to replicate.

#### **Course Objectives**

Provide presentations to the participants about the safe implantation of the PAN disrupter, both by hand and remotely. Participants will display their competency in the taught materials by completing scenarios crafted to test the basic core competencies listed below which were taught earlier in the training.

These competencies include:

- Disassembly, reassembly and basic maintenance of the PAN Disrupter
- Preparation of general disruption shots
- Loading and deploying precision shots, with solid projectiles.

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Team Members will also be familiarized with the new 3D printer. Team members will be shown how to design their own projects as well as how to import existing ones into the printer's design studio. Team members will also be shown how to print these files utilizing the proper settings to ensure the prints are useable.

#### **Safety Plan**

1. Hospital – Dominican Hospital 1555 Soquel Dr
  - a. AMR or self-transport in Code 3 equipped vehicle \
2. First Aid Kit and Medical supplies on scene
  - a. Advanced Med Kit (Bomb Truck)
  - b. Fire safety blanket (Bomb Truck – forward compartment)
  - c. IFAK (Bomb personnel)
3. **ALL down range activities personnel SHALL dawn proper PPE for activity**
  - a. Ballistic helmet (ballistic shield if equipped) / eye protection / hearing protection/ chest plate / leather gloves / knee pads / proper clothing.
4. Safety Officers
  - a. Schirmacher (ALL TEAM MEMBERS ARE RESPONSIBLE FOR SAFETY)

#### **3-1 Debrief/Clean-up**

1. Vehicles
  - a. ALL vehicles fueled and cleaned of trash or washed if appropriate
  - b. Primary response vehicle organized and properly stowed from next mission
2. Equipment
  - a. Batteries returned to chargers
  - b. Explosives returned to magazine
  - c. Tools returned / organized
3. Vehicle Bay
  - a. Swept and cleaned of trash