



Course Name: Advanced Portable X-Ray Image Interpretation Training Course

Vendor: SVS Countermeasures Training

Duns Number: 090952902

Cage Code: 8E6G8

EIN Number: 84-3920273

GSA Advantage: None

Course Link: svscountermeasurestraining.com/collections/eod-training/products/bomb-technician-advanced-portable-x-ray-interpretation-and-material-discrimination-training-course

COURSE: Bomb Technician Advanced Portable X-Ray Interpretation

LENGTH: 24 hours (3 days)

MAX STUDENTS: 20

TERMINAL LEARNING OBJECTIVE (TLO):

The student will learn how to identify IED components using a portable EOD X-Ray system in grey scale and material discrimination image modes in cluttered bags/packages.

ENABLING LEARNING OBJECTIVES (ELO'S):

ELO#1: Portable x-ray technology overview

ELO#2: X-ray imaging 101

ELO#3: Mosaic large shot imaging

ELO#4: RSP aiming points using measurements.

ELO#5: Lower edge cut off.

ELO#6: Penetration and wash out.

ELO#7: Anti X-ray

ELO#8: IED components grey scale vs material discrimination

ELO#9: Explosives and blasting caps grey scale vs material discrimination.

ELO#10: Material discrimination imaging (pulse generators vs constant potential generators)

ELO#11: RCIED Threats

ELO#12: IED x-ray images interpretation no clutter and clutter

ELO#13: Locating the organic materials and potential explosive main charge.

ELO#14: Peeling and stripping to identify material that is being blocked.

ELO#15: Material discrimination investigative advantages

ELO#16: Emerging Technologies

ELO #17: X-raying Vehicles

COURSE DESCRIPTION:

The course is an advanced level x-ray interpretation course that is designed to teach EOD/Bomb techs how to identify IED components in a portable x-ray image. The course will also focus on x-ray interpretation on packages and bags with clutter vs an IED in a package with no clutter and the IED components are easy to identify. Students will also be presented with IED components are hard to identify angles in a cluttered bag/package. The course will also cover how to use the material discrimination imaging feature and how it can provide the Bomb Technician more information than a grey scale image. The course will cover how different IED components and threats will respond in a material discrimination image to include organics, inorganic, and metals. The course is a mixture of classroom and hands on training and is 8 hours long. The course requires that you have an x-ray unit with material discrimination capability (Dual energy). This course will not cover RSP's and will only focus on interpreting x-ray images for IED threats in cluttered backgrounds. Course is 8 hours and there is a mixture of classroom and hands-on training. The course is a combination of classroom and

hands-on training and will include practical exercise on the x-ray system. Students will get to see actual simulated threat devices from our advanced inert training aids.

The course will also have hands-on training where students will be given different scenarios and packages to x-ray that cover all the ELO's from the classroom. In each scenario, the teams will use their own x-ray equipment to work the problem. Each x-ray problem provides a different challenge and helps the teams understand their system's capabilities and limitations better. All the x-ray problems are from real world incidents.

STUDENT REQUIREMENTS: Must be familiar with basic portable x-ray operation and have some training on IED components and how they look in x-ray.

EQUIPMENT: Must have access to unit's x-ray system for hand-on and practical exercises. We can bring ours if your unit does not have a system that can do material discrimination.

**TESTING: Written test and Practical Evaluation on IED circuit
Component x-ray identification**

CERTIFICATE: Certificate of Training for Advanced EOD Portable X-ray Interpretation

INSTRUCTION QUALIFICATION:

- **Federal Law Enforcement Training Center (FLETC) Certified Instructor**
- **Graduate of NAVSCHEOD or HDS**