SVS Semper Vigilo Security
COUNTERMEASURES TRAINING

X-ray Interpretation

Lesson Plan: SVS-PS-01
Course Number: SVS – CSOPS-01

Link: svscountermeasurestraining.com/collections/security-countermeasures-training

Date: 04/2022

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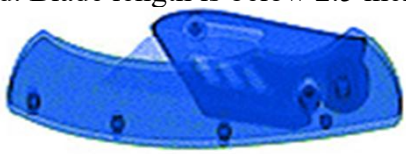
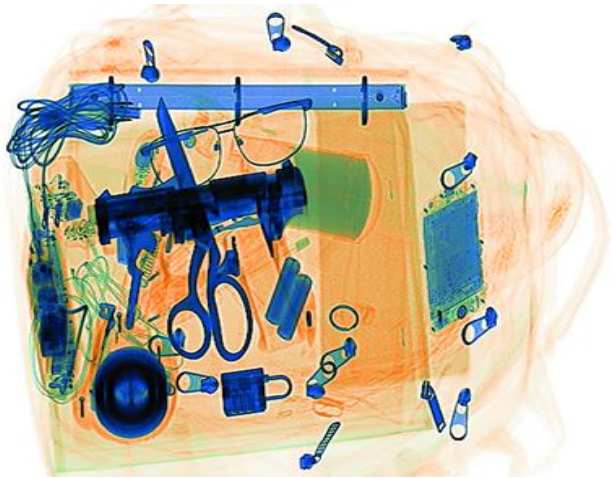
LESSON PLAN OVERVIEW

Course Title:		**CSO X-ray Interpretation**		
Course Number:		**SVS-CSOPS-01**		
Course Date:		**Fiscal Year 2022**		
Course Duration		**2.5 hours**		
Lecture	**Lab**	**PE**	**Total**	**Program**
4	**2**	**2**	**8 hours**	**X-Ray Operator**
Course Description		The student will be able to use an Xray machine image to discern a prohibited item. The student will learn what each category of threat looks like, and the key identification features to look for.		
Terminal Learning Objective (TLO)		The student will be able to use Xray images to identify prohibited items.		

Enabling Performance Objectives (ELO)	• EPO #1: Identify a Knife threat in an X-Ray image. • EPO #2: Identify a Handgun threat in an X-Ray image. • EPO #3: Identify a Rifle threat in an X-ray image. • EPO #4: Identify an Ammo threat in an X-Ray image. • EPO #5: Identify a Mace threat in an X-Ray image. • EPO #6: Identify a Taser threat in an X-Ray image. • EPO #7: Identify a Misc. weapon threat in an X-Ray image. • EPO #8: Identify a Liquid threat in an X-Ray image. • EPO #9: Identify a Grenade threat in an X-Ray image. • EPO #10: Identify a Pipe Bomb threat in an X-Ray image. • EPO #11: Identify IED Components in an X-Ray image. • EPO #12: Identify a Detonator in an X-Ray image. • EPO #13: Identify an Explosive in an X-Ray image. • EPO #14: Identify a fully assembled IED in an X-ray image. • EPO #15: Identify a Threat Hidden in a shoe with x-ray. • EPO #16: Identify a Threat hidden in electronics with x-ray. • EPO #17: Identify a fragmentation in an x-ray image. • EPO #18: Identify Mail threats in an X-Ray image. • EPO# 19: Identify a Chemical IED in an X-ray Image • EPO# 20: Identify a Pressure Cooker IED in an X-ray image. • EPO# 21: Identify a Threat item in an x-ray image inside of a bag with clutter.
Instructional Methods	● Lecture ● Discussion
Method of Evaluation	The students will demonstrate their knowledge by taking a written test at the end of the course.

Test Questions	**EPO #1: Identify a Knife threat in an X-Ray image** (Slides 7-39 PPT) 1. What type of threat is shown in the Xray image below? a. Gun threat b. Taser threat c. No threat d. Pocket knife threat  2. What is the threat item in the Xray image below? (Slides 7-39 PPT) a. Box cutter b. Pistol slide c. No threat d. Blade length is below 2.5 inches, so it is no threat  3. Is the below x-ray image a threat or no threat? (Slides 7-39 PPT) a. Yes, it is a threat and is a pen knife. b. No, it is not a threat and is a regular pen. c. I am not sure so I will ask the person to take it out and show me. d. None of the above  **EPO #2: Identify a Handgun threat in a Xray image** 1. What type of threat is in the below image? (Slides 80-113 PPT)  a. No Threat b. Pipe bomb c. Handgun d. Pipe bomb 2. In the below Xray image of a bag, what type of potential threat object do you see? (Slides 80-113 PPT)

a. IED
b. Handgun
c. No threat
d. Taser



3. What is the item in the x-ray image below? (Slides 80-113 PPT)
a. Handgun from the top-down angle
b. Taser
c. Knife
d. I do not know and will ask the person to take it out and show me.
e. None of the above

ELO #3: Identify a Rifle threat in a Xray image

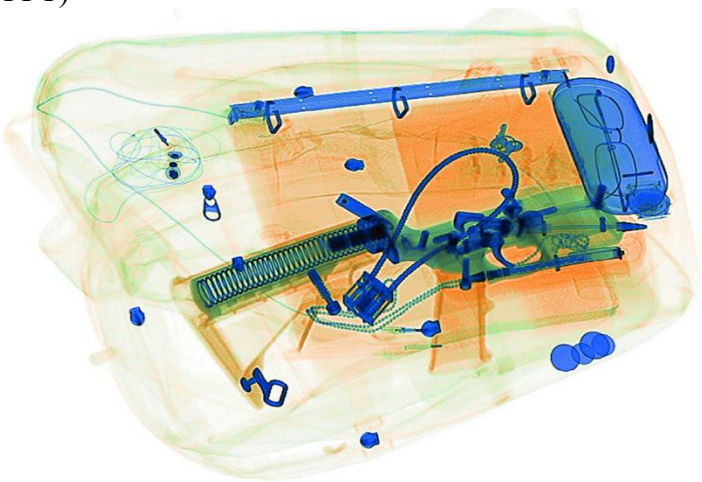
1. What is the item in the x-ray image below (Slides 115-123 PPT)

a. I do not know and will ask the person to take it out and show me.
b. AR type rifle from a top-down angle
c. Childs BB gun
d. None of the above

2. What type of threat object is in the image below? (Slides 115-123 PPT)

a. There is no threat item is safe.
b. I am not sure so I will ask the person to take the item out and show me.
c. Lower receiver of an AR type rifle
d. None of the above

3. In the x-ray image below do you see any potential threats? (Slides 115-123 PPT)



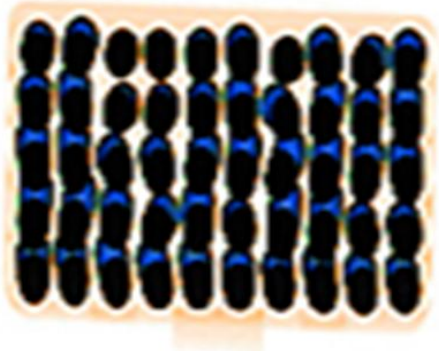
a. There is no threat in the bag.
b. There is an IED threat in the bag
c. AR 15 lower receiver
d. None of the above

EPO #4: Identify an Ammo threat in an Xray image.

1. What is the item in the below x-ray image (Slides 125-135 PPT)

a. Pistol magazine with bullets
b. IED
c. Handgun lower receiver
d. Stun gun

2. What is the item in the x-ray image below? (Slides 125-135 PPT)



a. Box of mints
b. Box of ammo
c. IED
d. None of the above

3. What are the items in the below x-ray image? (Slides 125-135 PPT)

a. IED
b. Mace
c. Shotgun Shells (buckshot)
d. None of the above

EPO #5: Identify a Mace threat in an Xray image

1. Which of the below is an inhaler and which is mace? (Slides 54-65 PPT)

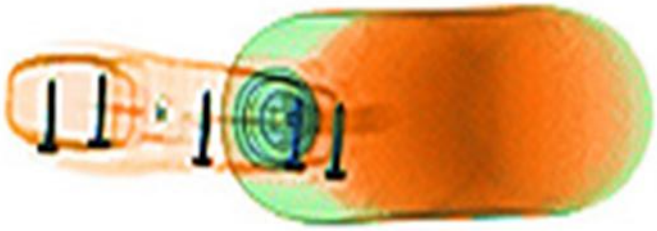
a. The green one is the inhaler because mace only turns orange
b. The orange one is the inhaler because mace only turns green
c. Both are mace as they can be either green or orange

d. None of the above

2. What is the item in the below x-ray image (Slides 54-65 PPT)

a. Taser
b. PVC pipe bomb
c. Flammable liquid
d. Mace sprayer
e. None of the above

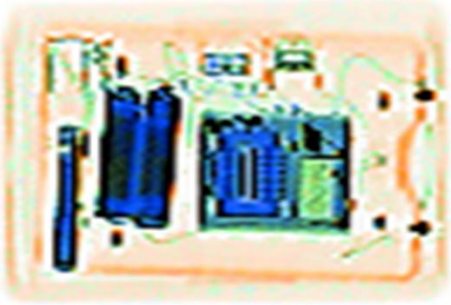
3. What is the item in the below x-ray image? (Slides 54-65 PPT)



a. large size pepper spray
b. Inhaler for asthma
c. PVC pipe bomb
d. Flammable liquid
e. None of the above

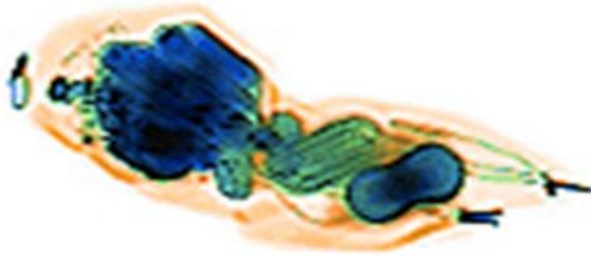
EPO #6: Identify a Taser threat in an Xray image

1. What is the item in the below Xray image? (Slides 67-78 PPT)



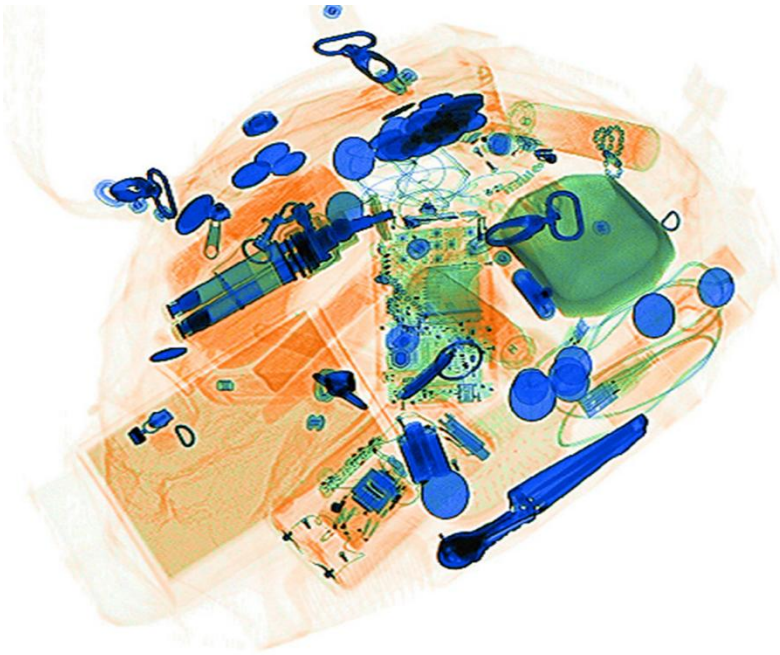
a. Taser
b. cell phone
c. IED
d. IED switch
e. None of the above

2. What is the item in the below Xray image (Slides 67-78 PPT)



a. Cell phone
b. IED
c. Battery and switch for an IED
d. Taser
e. None of the above

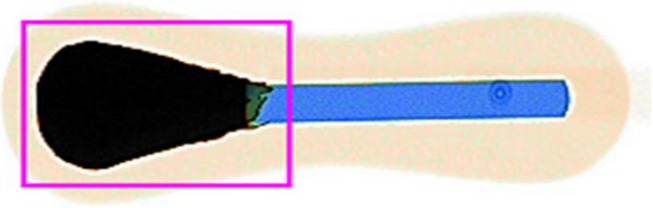
3. What type of threat do you see in the below Xray image? (Slides 67-78 PPT)
a. Pipe bomb threat
b. Ammo threat
c. Taser threat
d. Mace Threat
e. c and d



EPO #7: Identify a Misc. weapon threat in an Xray image

1. Is the item below a threat? (Slides 48-50)
a. Yes, it is a pipe bomb
b. No it is not a threat
c. Yes, it is a collapsing baton
d. Yes, it is a pocketknife
e. None of the above

2. Is the below image a threat? (Slides 48-50)



a. No, it is not a threat
b. Yes, it is a threat

3. What type of threat can you identify in the below x-ray image? (Slides 45-46)

a. Throwing stars
b. Gun
c. Knife
d. None of the above

EPO #8: Identify a Liquid threat in an X-Ray image

1. What is the best way to screen for liquids (Slides 143)

a. Do not allow them into your facility
b. Use drink screening bins
c. Make the visitor drink from it
d. a and b

2. The absence of a red box on a liquid container is a clear indication that the liquid is_____ (Slide 143-146)

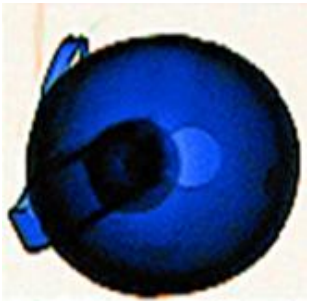
a. Safe and no potential threat
b. The x-ray needs to be calibrated
c. High probability that the liquid is flammable
d. None of the above

3. What type of potential threat do you see in the below Xray image? (Slides 143-146)

a. IED threat
b. Flammable liquid threat (bottle with no red box)
c. Mace threat
d. There is no threat in the bag
e. None of the above

EPO #9: Identify a Grenade threat in an X-Ray image

1. Identify what type of threat you see in the below image? (Slides 143-156 PPT)

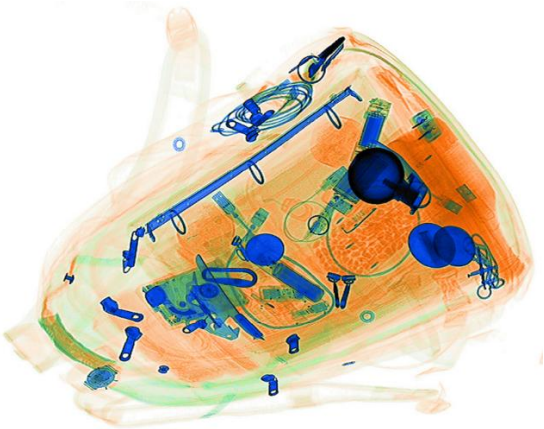


a. Handgun
b. Pipe Bomb
c. Knife
d. Hand grenade
e. None of the above

2. A hand grenade threat will turn what color in the Xray system? (Slides 143-156 PPT)

a. Green
b. Blue
c. Orange
d. Red

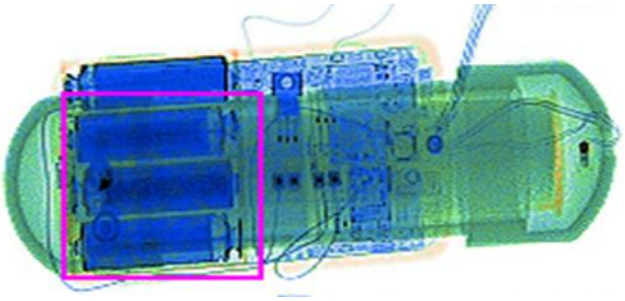
3. What category of threat do you see in the below bag? (Slides 143-156 PPT)



a. Knife
b. Handgun
c. Taser
d. Hand grenade
e. None of the above

EPO #10: Identify a Pipe Bomb threat in an Xray image

1. Identify what type of threat you see in the below image (Slides 157-172 PPT)



a. PVC Pipe Bomb
b. Hand Grenade
c. Metal Pipe Bomb
d. Taser
e. None of the above

2. Metal Pipes bombs tun _____and PVC Pipe Bombs Turn _____ in the x-ray image? (Slides 157-172 PPT)
   a. Orange and Green
   b. Blue and green
   c. Both tun blue
   d. None of the above

3. Metal pipe bombs can be automatically detected by the Xray? (Slides 157-172 PPT)

a. True (Smiths Purple box, Rapiscan Yellow/Magenta Box)
b. False, you must identify them yourself and the x-ray cannot autodetect
c. Only Smiths can autodetect metal pipe bombs
d. Only Rapiscan can autodetect pipe bombs

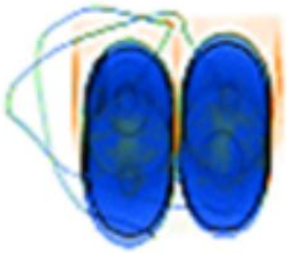
EPO #11: Identify IED Components in an Xray image

1. The acronym PIES is an outdated method to categorize IED components (Power, Initiator, Explosive, Switch). For Xray threat detecting, the better method is to categorize the IED into 5 major components. Which answer below is the correct 5? (Slides 173-203 PPT)
   a. Power, timer, pipe bomb, gun powder, circuit
   b. 9-volt, timer, black powder, wires, e-match
   c. Battery, wires, switch, detonator, and explosive
   d. Power, Initiator, Explosive, and Switch.
   e. None of the above

2. Batteries turn what color in x-ray and are a good IED component to always investigate in and x-ray image? (Slides 173-203 PPT)

a. Blue
b. Green
c. Orange
d. Black
e. None of the above
f.

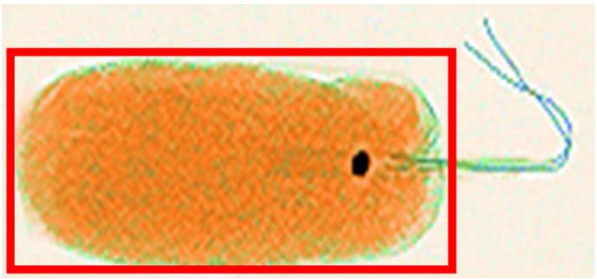
3. What IED Component is displayed in the below image? (Slides 173-203 PPT)



a. Toggle switch
b. 2 D cell batteries in a battery case
c. Pipe bomb
d. There is no IED component in the image
e. None of the above

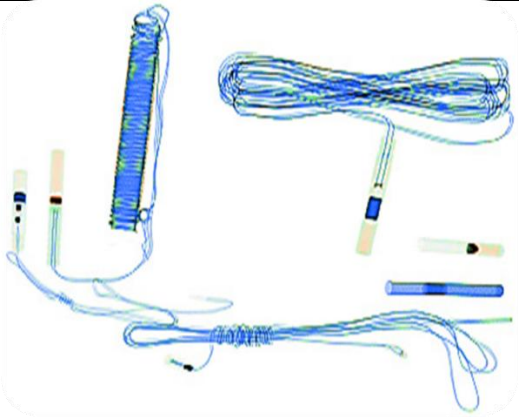
EPO #12: Identify a Detonator in an X-Ray image

1. In the below image the Xray has displayed an automatic detection RED BOX alarm for a material that has a similar density to an organic explosive. What should you look for inside of the RED BOX to determine if it is a potential threat? (Slides 205-219 PPT)



a. Anything that looks like a detonator
b. IED Switches
c. Batteries
d. Wires
e. None of the above

2. What type of IED Component threat do you see in the below image? (Slides 205-219 PPT)



a. IED Switches
b. Ammo
c. Taser
d. IED detonators
e. None of the above

3. A key identification feature of a detonator in an Xray image is what? (Slides 205-219 PPT)
a. It turns green
b. It will get a high density autodetection alarm'
c. They all have a black mass/dot inside of them which is the lead azide/lead styphnate primary explosive mixture
d. None of the above

EPO #13: Identify an Explosive in an Xray image

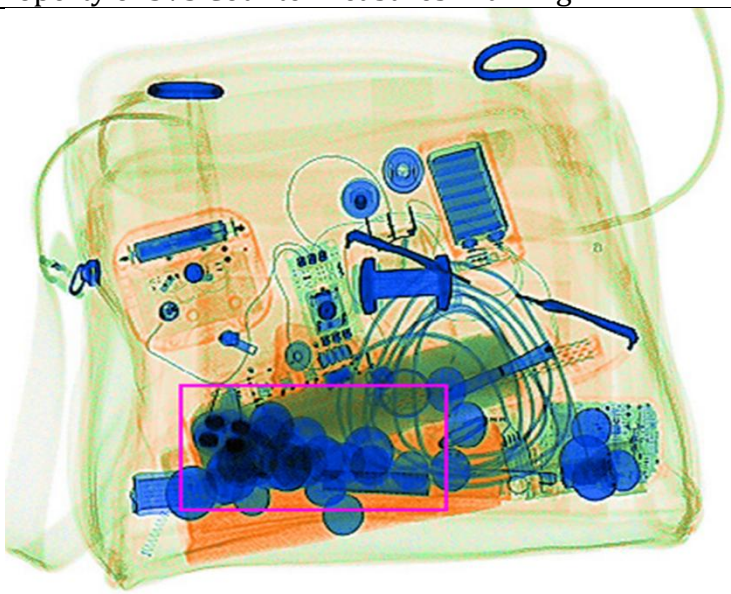
1. Explosives turn what color in x-ray? (Slide 227)
   a. Blue
   b. Green
   c. Orange
   d. Orange (organic explosives) and Green (inorganic explosives)
   e. None of the above

2. The x-ray machine can automatically detect all the different types of explosives? (Slide 227)
a. True, it detects all the different types of explosives
b. False, it only can detect organic explosives

3. If you locate something that looks like a detonator the item it is inside of is potentially the explosives and could be orange or green in color? (Slide 215)
a. True, Detonators are typically inserted into the explosive to set them off
b. False, explosives only turn orange

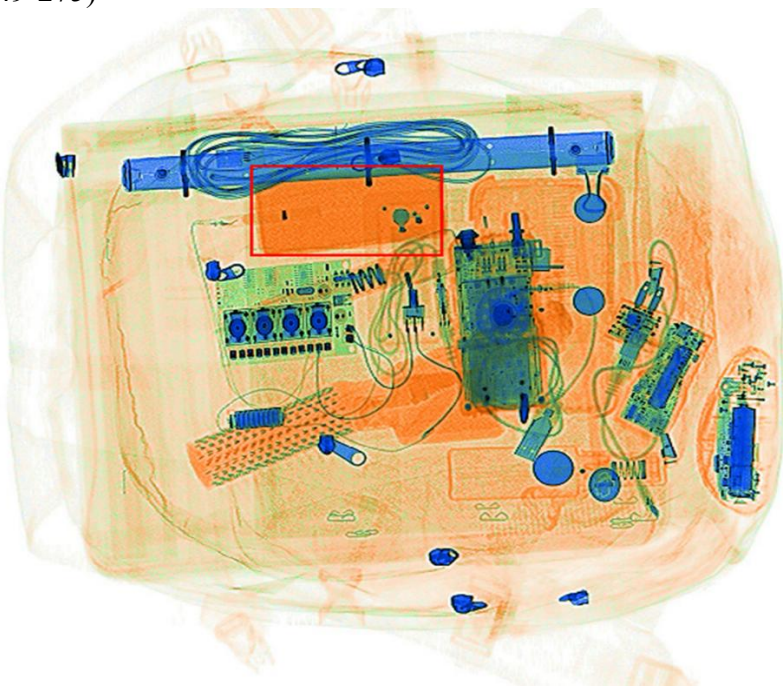
EPO #14: Identify a fully assembled IED in an Xray image

1. In the below x-ray image what type of threat do you see? (Slides 249-275)



a. No threat is visible
b. IED Threat
c. Pipe bomb threat
d. Mace threat
e. None of the above

2. In the below x-ray image what type of potential threat do you see? (Slides 249-275)



a. No threat is visible
b. IED Threat
c. Pipe bomb threat
d. Mace threat
e. None of the above

3. In the below x-ray image what type of potential threat do you see? (Slides 249-275)

a. No threat is visible
b. IED Threat
c. Pipe bomb threat
d. Mace threat
e. None of the above

EPO #15: Identify a Threat Hidden in a shoe with Xray

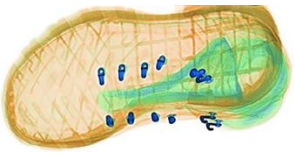
1. The only way to verify a shoe does not have a potential threat hidden inside is to? Slides 277-285
a. X-ray the shoe
b. Test the shoe with a WTMD
c. Test the shoe with the HHMD
d. Pat down the shoe
e. None of the above

2. Men's and women's dress style shoes will typically have a metal support inside that will cause the WTMD to alarm. Which image below shows the metal support? Slides 277-285

a. 

b. 

c. 

d. 

e. None of the Above

3. Why is the below shoe a potential threat and must be investigated in more detail? Slides 277-285

a. They do not have a metal support and all shoes have metal supports
b. One shoe has an organic mass inside and the other does not
c. There is no threat, and the shoes are safe
d. None of the above.

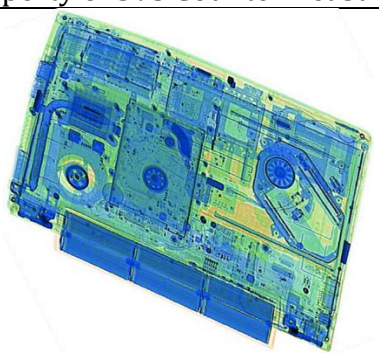
EPO #16: Identify a Threat hidden in electronics with Xray

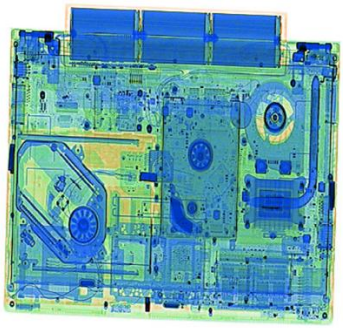
1. The best way to screen a laptop or tablet is to? Slides 287-298
a. Have the person turn it on and verify it works
b. Remove them from any bag they are in and x-ray them and the bag separately
c. X-ray them inside of the bag they are stored
d. None of the above

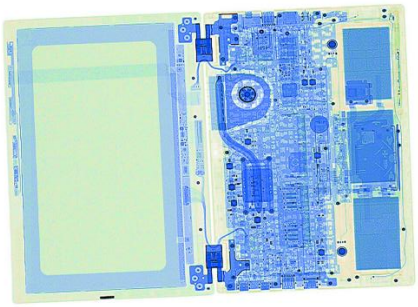
2. What color is not normal to see inside of any electronic item? Slides 287-298

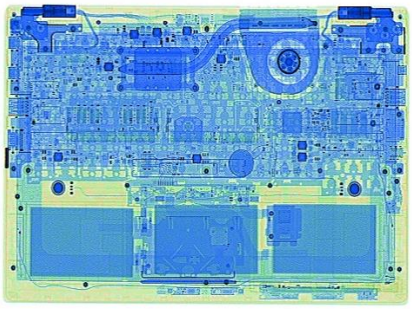
a. Blue
b. Green
c. Black
d. Orange
None of the above

3. Which image below is the best method to screen a laptop or tablet? Slides 287-298

a. 

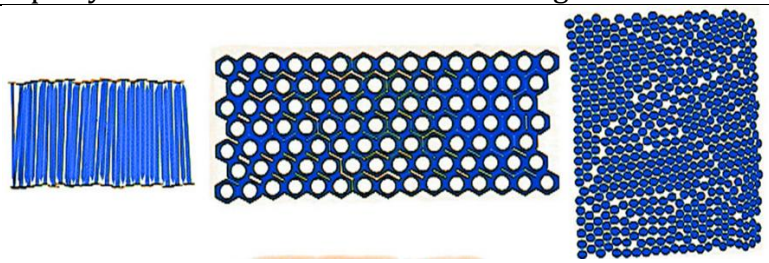
b. 

c. 

d. 

EPO #17: Identify IED fragmentation in an Xray image

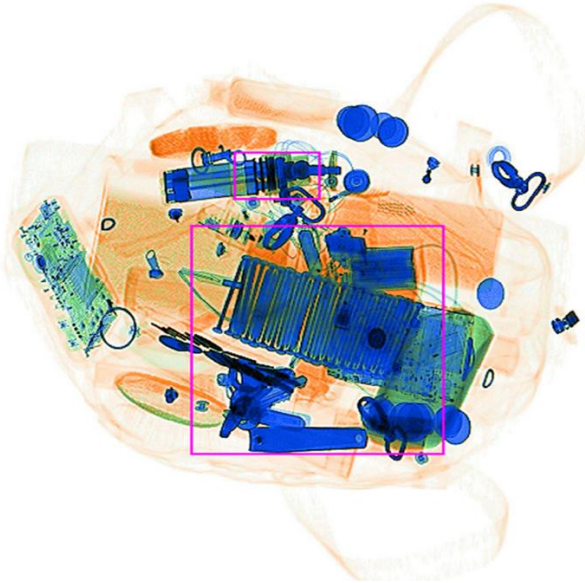
1. What is the potential threat in the x-ray image below? Slides 300-303



a. Metal Pipe bomb
b. No threat
c. Coins
d. IED fragmentation
e. None of the above

2. Fragmentation added to a IED will typically negate the x-rays' ability to automatically detect the explosive material? Slides 300-303
a. True
b. False

3. What is the potential threat in the x-ray image below? Slides 300-303

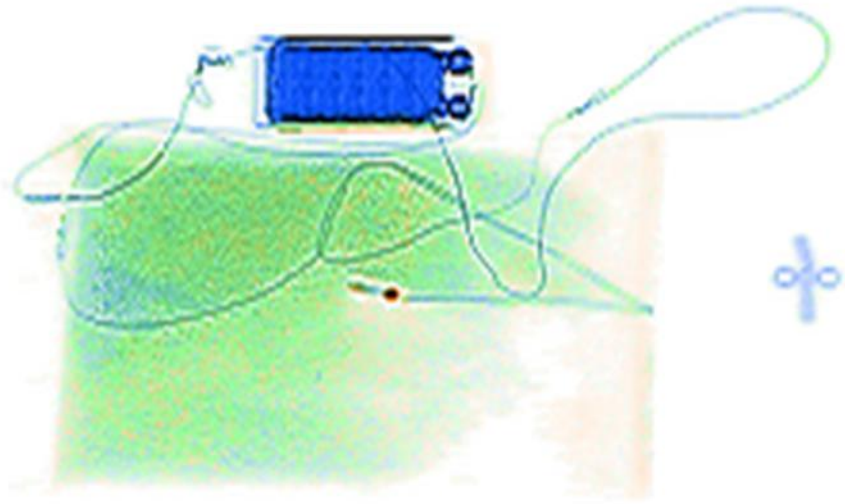


a. Metal Pipe bomb
b. No threat
c. Coins
d. IED fragmentation
e. None of the above

EPO #18: Identify Mail threats in an Xray image
1. Mail threats are typically set off when they are? (Slides 305-313)
a. When they are x-rayed
b. Victim activated when they are opened
c. Timer switch
d. Vibration switch

e. none of the above

2. You x-ray a package that is being sent to one of the judges in your building. What do you see? (Slides 305-313)



a. IED Threat
b. No threat
c. Chemical/Biological threat
d. I am not sure and will open the box and do a visual inspection
e. None of the above

3. What type of threat do you see in the below mail package? Slides 305-313

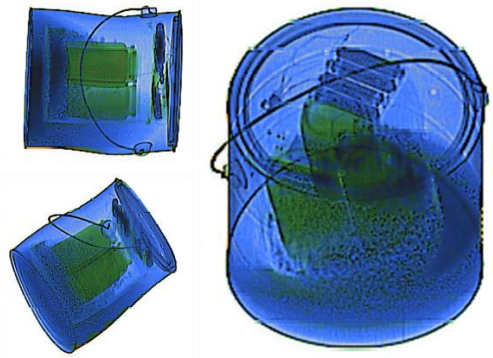
a. No threat
b. High density blocking material
c. I cannot tell so I will open the package
d. None of the above

PLO# 19: Identify a Chemical IED in an Xray Image

1. The x-ray machine can let you see if an envelope has a powder inside? (Slides 315-322)
a. True

b. False

2. What type of threat do you see in the x-ray images below? (Slides 315-322)



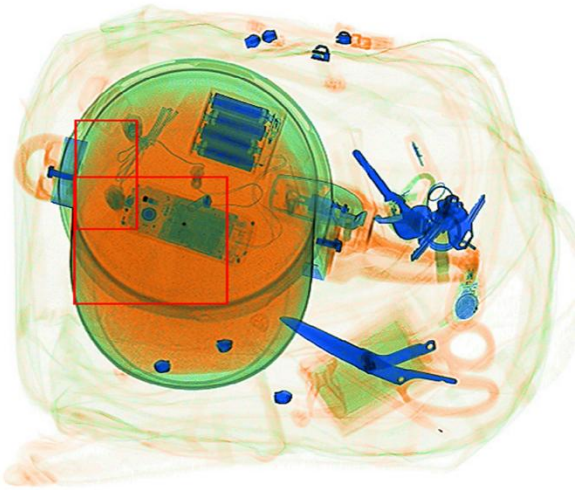
a. Pipe bomb threat
b. Chemical IED threat
c. Normal Can of paint
d. None of the above

3. What type of threat do you see in the below x-ray image? (Slides 315-322)

a. Normal Letter, no threat
b. Anthrax in envelope
c. HOAX anthrax (powder is green and not orange)
d. None of the above

EPO# 20: Identify a Pressure Cooker IED in an X-ray image

1. What king of potential threat in the below x-ray image? Slides 324-327



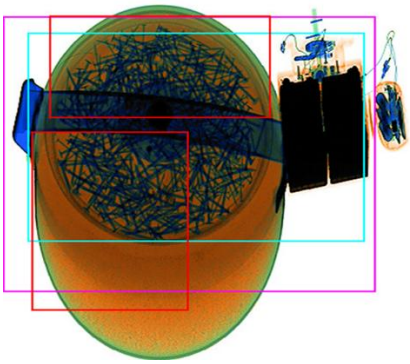
a. Pipe Bomb IED

b. No Threat

c. Pressure Cooker IED

d. None of the above

2. What king of potential threat in the below x-ray image? Slides 324-327



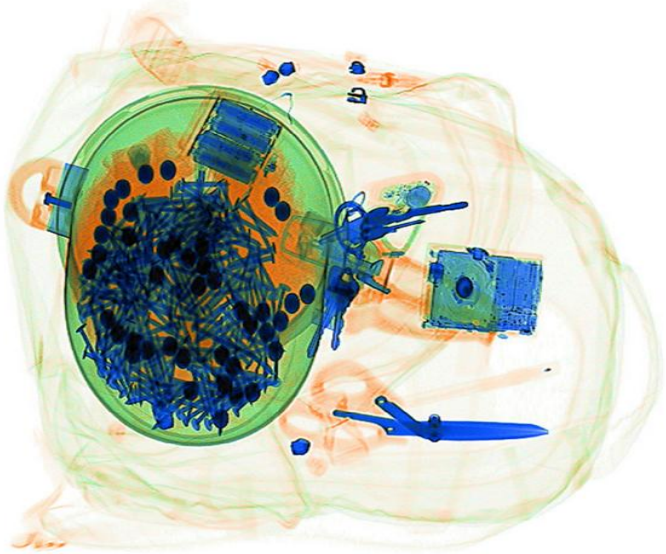
a. Pipe Bomb IED

b. No Threat

c. Pressure Cooker IED

d. None of the above

3. What king of potential threat in the below x-ray image? Slides 324-327



a. Pipe Bomb IED

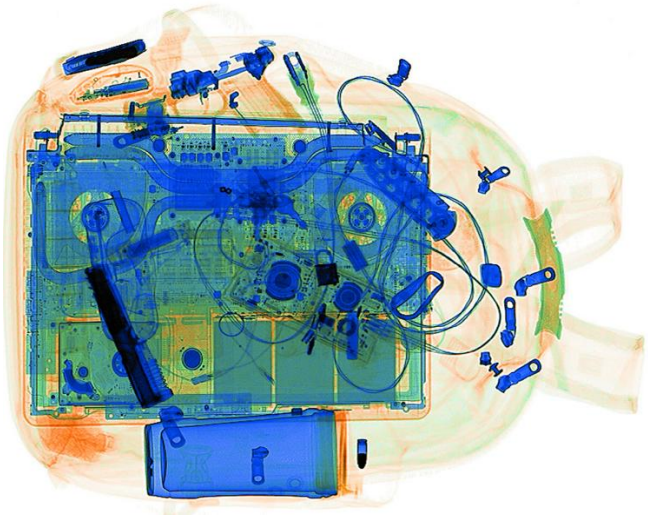
b. No Threat

c. Pressure Cooker IED

d. None of the above

EPO# 21: Identify a Threat item in an x-ray image inside of a bag with clutter

1. Do you see a threat in the below x-ray image? (Slides 329-358)



a. There is no threat

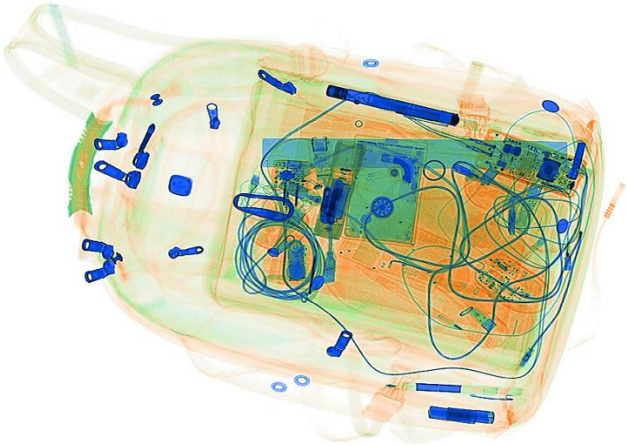
b. Handgun threat

c. Pocket knife threat

d. Both “b” and “c” are correct

e. None of the above

2. Do you see a threat in the below x-ray image? (Slides 329-358)



a. There is no threat

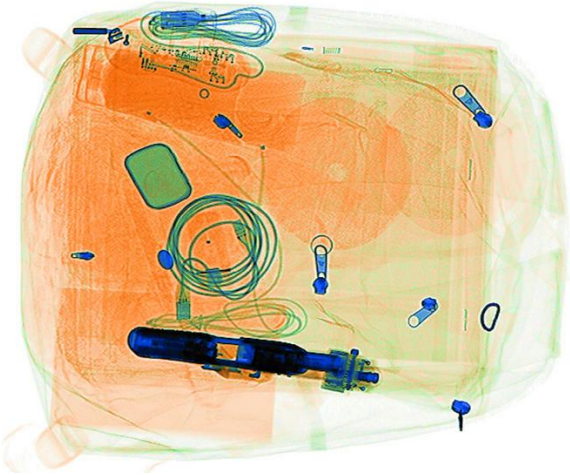
b. Handgun threat

c. Metal Pipe bomb

d. Pressure Cooker IED

e. None of the above

3. Do you see a threat in the below x-ray image? (Slides 329-358)



	a. There is no threat b. Knife threat c. Taser threat d. Handgun threat e. None of the above
Classroom Requirements	● Computer ● Projector ● Projector Screen
Lab Requirements	None
Instructor Materials/Resources	● Instructor Guide ● Presentation
Student Materials/Resources	● Student guide
Instructor Special Requirements	● Certified EOD Technician ● Graduate of LEAITP
Student Special Requirements:	Graduate of CSO Phase 1
Role Players	N/A

Curriculum Development and Review Team

Developed by: **Date**
John Howell Jan 2022
Bomb Technecian

Revised by: **Date**
Ruth Myers March 2022
MS Education
SVS Countermeasures Training
Summary of Revisions: Updated content and add all the SOW Performance Standards

Revised by: **Date**
John Howell Oct 2022
Director of Counter IED Training and Technologies
SVS Countermeasures Training

Summary of Revisions:

1. Added test questions to lesson plan Oct 2022
2. Updated test question Dec 2022

Reviewed by: **Date**
Judith Gallagher Howell Dec 2022
Retired Chief DUSM
SVS Countermeasures Training CEO

INTRODUCTION

RAPPORT AND OPENING STATEMENT

Court Security Officers utilize Xray machines in their everyday screening at federal courthouse entry points. Learning the proper use and operations of this tool and being able to identify various threats enhances the safety of the courthouse occupants.

LESSON PLAN OVERVIEW

1. Terminal Learning Objective (TLO).

The student will be able to look at Xray images and determine if there are threats or prohibited items present.

2. Enabling Performance Objectives

- EPO #1: Identify a Knife threat in an X-Ray image
- EPO #2: Identify a Handgun threat in an X-Ray image
- EPO #3: Identify a Rifle threat in an X-ray image
- EPO #4: Identify an Ammo threat in an X-Ray image
- EPO #5: Identify a Mace threat in an X-Ray image
- EPO #6: Identify a Taser threat in an X-Ray image
- EPO #7: Identify a Misc. weapon threat in an X-Ray image
- EPO #8: Identify a Liquid threat in an X-Ray image
- EPO #9: Identify a Grenade threat in an X-Ray image
- EPO #10: Identify a Pipe Bomb threat in an X-Ray image
- EPO #11: Identify IED Components in an X-Ray image
- EPO #12: Identify a Detonator in an X-Ray image
- EPO #13: Identify an Explosive in an X-Ray image
- EPO #14: Identify a fully assembled IED in an X-ray image
- EPO #15: Identify a Threat Hidden in a shoe with x-ray
- EPO #16: Identify a Threat hidden in electronics with x-ray
- EPO #17: Identify a fragmentation in an x-ray image
- EPO #18: Identify Mail threats in an X-Ray image
- EPO# 19: Identify a Chemical IED in an X-ray Image
- EPO# 20: Identify a Pressure Cooker IED in an X-ray image
- EPO# 21: Identify a Threat item in an x-ray image inside of a bag with clutter

PRESENTATION

1. EPO #1: Identify a knife threat in an Xray machine

The instructor will cover x-ray images with the students and elaborate key identification elements:

1. The CSO's familiarization with knives and edged weapons in all their configurations

2. The CSO's ability to identify a knife threat in an Xray machine image by detailing how an Xray responds to various metals or non-metals.

2. EPO #2: Identify a handgun threat in an Xray machine

The instructor will cover x-ray images with the students and elaborate key identification elements:

1. The CSO's familiarization with various handguns and how they look in an Xray machine.

2. The CSO's knowledge on how the alarm features work on Smiths and Rapiscan Xray machines and how they assist the CSO in identifying handguns.

3. The CSO's ability to discern handguns in an Xray image even when they are not lying flat.

3. EPO #3: Identify a rifle threat in an Xray machine

The instructor will cover x-ray images with the students and elaborate key identification elements:

1. The CSO's familiarization with various handguns and how they look in an Xray machine.

2. The CSO's knowledge on how the alarms features work on Smiths and Rapiscan Xray machines and how they assist the CSO in identifying rifles.

3. The CSO's ability to discern rifles in an Xray image even when they are not lying flat or fully assembled.

4. EPO #4: Identify an ammo threat in an Xray machine

The instructor will cover x-ray images with the students and elaborate key identification elements:

1. The CSO's familiarization with how bullets/ammunition appear in Xray images

2. The CSO's ability to discern an image of a box of ammunition.

5. EPO #5: Identify mace in an Xray machine

The instructor will cover x-ray images with the students and elaborate key identification elements:

1. The CSO's familiarization with how mace looks in an Xray machine image

2. The CSO's knowledge of the various mace cannisters on the market today

6. EPO #6: Identify a taser in an Xray machine

The instructor will cover x-ray images with the students and elaborate key identification elements:

1. The CSO's familiarization with how a taser looks in an Xray machine image

2. The CSO's knowledge of the various tasers that are on the market today

7. EPO #7: Identify miscellaneous weapons in an Xray machine

The instructor will cover x-ray images with the students and elaborate key identification elements:

1. The CSO's familiarization with various miscellaneous threats
2. The CSO's knowledge of miscellaneous threats and how they appear in an Xray machine image

8. EPO #8: Identify liquid threats in an Xray machine

The instructor will cover x-ray images with the students and elaborate key identification elements:

1. The CSO's familiarization with liquid threats
2. The CSO's knowledge of how each Xray system responds to liquid threats

9. EPO #9: Identify a grenade threat in an Xray machine:

The instructor will cover x-ray images with the students and elaborate key identification elements:

1. The CSO's familiarization with how a grenade appears in an Xray image
2. The CSO's knowledge of the various grenades in the marketplace
3. The CSO's knowledge of the color that a grenade appears in the Xray

10. EPO #10: Identify a Pipe Bomb threat in an X-Ray image

The instructor will cover x-ray images with the students and elaborate key identification elements:

1. The CSO's familiarization with how a Pipe Bomb appears in an Xray image
2. The CSO's knowledge of the various Pipe Bomb in the marketplace
3. The CSO's knowledge of the color that a Pipe Bomb appears in the Xray

11. EPO #11: Identify IED Components in an X-Ray image

The instructor will cover x-ray images with the students and elaborate key identification elements:

1. The CSO's familiarization with how IED components appears in an Xray image
2. The CSO's knowledge of the various IED components in the marketplace
3. The CSO's knowledge of the color that IED components appears in the Xray

12. EPO #12: Identify a Detonator in an X-Ray image

The instructor will cover x-ray images with the students and elaborate key identification elements:

1. The CSO's familiarization with how detonators appear in an Xray image

2. The CSO's knowledge of the various detonators in the marketplace

3. The CSO's knowledge of the color that detonator appear in the Xray

13. EPO #13: Identify an Explosive in an X-Ray image

The instructor will cover x-ray images with the students and elaborate key identification elements:

1. The CSO's familiarization with how explosives appear in an Xray image

2. The CSO's knowledge of the various explosives in the marketplace

3. The CSO's knowledge of the color that explosives appear in the Xray

14. EPO #14: Identify a fully assembled IED in an X-ray image

The instructor will cover x-ray images with the students and elaborate key identification elements:

1. The CSO's familiarization with how assembled IED appears in an Xray image

2. The CSO's knowledge of the various assembled IED in the marketplace

3. The CSO's knowledge of the color that assembled IED appears in the Xray

15. EPO #15: Identify a Threat Hidden in a shoe with x-ray

The instructor will cover x-ray images with the students and elaborate key identification elements:

1. The CSO's familiarization with how Shoe threat appears in an Xray image

2. The CSO's knowledge of the various Shoe threat in the marketplace

3. The CSO's knowledge of the color that Shoe threat appears in the Xray

16. EPO #16: Identify a Threat hidden in electronics with x-ray

The instructor will cover x-ray images with the students and elaborate key identification elements:

1. The CSO's familiarization with how threat hidden in electronics appears in an Xray image

2. The CSO's knowledge of the various threats hidden in electronics in the marketplace

3. The CSO's knowledge of the color that threat hidden in electronics appears in the Xray

17. EPO #17: Identify a fragmentation in an x-ray image

The instructor will cover x-ray images with the students and elaborate key identification elements:

1. The CSO's familiarization with how IED Fragmentation appears in an Xray image

2. The CSO's knowledge of the various IED Fragmentation in the marketplace

3. The CSO's knowledge of the color that IED Fragmentation appears in the Xray

18. EPO #18: Identify Mail threats in an x-ray image

The instructor will cover x-ray images with the students and elaborate key identification elements:

1. The CSO's familiarization with how IED components appears in an Xray image
2. The CSO's knowledge of the various IED components in the marketplace
3. The CSO's knowledge of the color that IED components appears in the Xray

19. EPO# 19: Identify a Chemical IED in an Xray Image

The instructor will cover x-ray images with the students and elaborate key identification elements:

1. The CSO's familiarization with how Chemical IED components appears in an Xray image
2. The CSO's knowledge of the various Chemical IED components in the marketplace
3. The CSO's knowledge of the color that Chemical IED components appears in the Xray

20. EPO# 20: Identify a Pressure Cooker IED in an Xray Image

The instructor will cover x-ray images with the students and elaborate key identification elements:

1. The CSO's familiarization with how Pressure cooker IED appears in an Xray image
2. The CSO's knowledge of the various Pressure cooker IED in the marketplace
3. The CSO's knowledge of the color that Pressure cooker IED appears in the Xray

21. EPO# 21: Identify a threat in an Xray Image in a cluttered bag

The instructor will cover x-ray images with the students and elaborate key identification elements:

1. The CSO's familiarization with how threat object appears in an Xray image inside of a cluttered bag
2. The CSO's knowledge of the colors that Pressure cooker IED appears in the Xray

LAB EXERCISE

Students will conduct hands on training with the x-ray system and all the different kinds of threat during the X-RAY/WTMD/HHMD Lab and the X-Ray/WTMD/HHMD OEP Lab

SUMMARY

X-Ray Interpretation is not easy and the only way to get better at it is to expose yourself to threats. Use the simulator on the machine to train any chance you can get.

REVIEW OF LEARNING OBJECTIVES.

- EPO #1: Identify a Knife threat in an X-Ray image
- EPO #2: Identify a Handgun threat in an X-Ray image
- EPO #3: Identify a Rifle threat in an X-ray image
- EPO #4: Identify an Ammo threat in an X-Ray image
- EPO #5: Identify a Mace threat in an X-Ray image
- EPO #6: Identify a Taser threat in an X-Ray image
- EPO #7: Identify a Misc. weapon threat in an X-Ray image
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REVIEW OF TEACHING POINTS

x-ray threat detection is a skill that is developed by exposing the x-ray operator to threat images. This course was designed around showing you all the different types of threats and what they look like in an x-ray image.

APPLICATION

By making sure you know and understand how various threats appear in Xray machines, you can make sure that you perform as required and prevent the introduction of any prohibited items from entering a USMS Court Facility.

ATTACHMENTS

N/A