



# X-ray Interpretation Dual View Training Class

The X-ray Interpretation Dual View Training Class allows each student to improve his X-ray interpretation skills by providing real-world simulation of the X-ray screening process. X-ray simulations are used as part of the training to demonstrate and evaluate how to analyze X-ray images. The Dual View feature displays a vertical and horizontal view of the X-ray image, eliminating the need to re-scan items. As part of the course, the student is exposed to a wide variety of X-ray images and he may toggle between both views in order to closely analyze the scanned item to determine if it contains any threats.

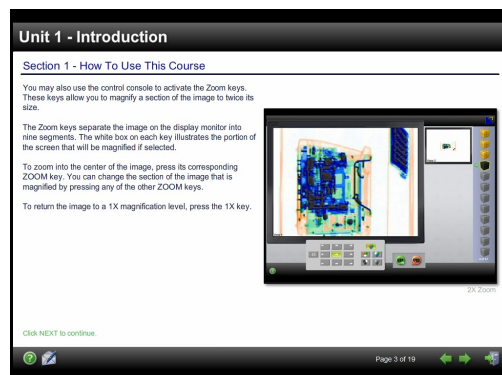
The student may use a variety of features such as zoom, color, inorganic strip, organic strip, black & white, and inverse to modify the X-ray image. After analyzing the X-ray image, the student has the option of passing an X-ray image that is clear of threats, inspecting if it contains a possible threat, and holding if it contains an obvious threat. If the hold button is pressed, a pushpin will appear and the student will be instructed to mark the threat within the X-ray image. The student is not only scored based on the number of correct decisions, but also on the path followed to arrive at those decisions.

## Key Features

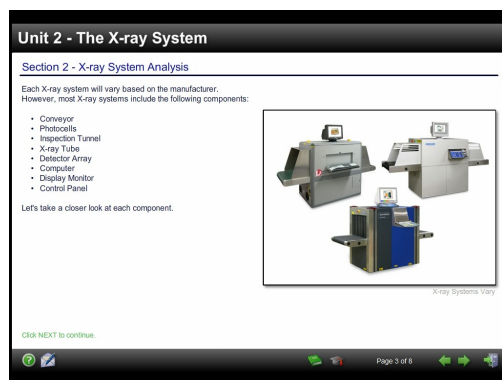
- Individualized, self-paced instruction
- Customized remediation and testing
- Secure records management system
- Detailed training reports
- Realistic machine simulation

## Key Benefits

- Practical - Safe and effective way for the student to improve his X-ray interpretation skills and for them to learn from their mistakes by comparing their decisions to the correct decisions.
- Comprehensive - The training teaches the student how to effectively perform as an X-ray screener. This comprehensive approach prepares the student to detect and prevent the widest variety of threats from passing into a sterile area.
- Results Oriented - Custom simulation sessions focus on student needs to increase performance. The system identifies threat categories where the student needs the most improvement and creates custom tests targeted towards weakness areas.



Operator Course Screen



Operator Course Screen



Aviation Simulation Course Screen



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## Simulation

**X-ray Interpretation Practice** – Each student can practice their X-ray interpretation skills using an on-screen simulation of the system. The X-ray image library in the simulation contains both innocent and threat items. The industry specific image library will expose the student to a variety of threat items. The student will improve their skills by advancing through three levels of difficulty based on image complexity and orientation of the threat.

As each student works through practice sessions, a sophisticated algorithm monitors and tracks actions and decisions made for each image. Upon completion of a practice session, the algorithm determines if the student had difficulty correctly responding to any X-ray images. Based on the student's performance, subsequent practice sessions are tailored to meet the specific training needs of the student. This leads to more efficient and effective training, which results in higher detection rates and lower false alarm rates.

**Ongoing X-ray Interpretation Training** – The X-ray library contains a large number of threat items. The key to high hit rates and low false alarms rates is to have the skills to effectively recognize real threats. To do this, each student must develop knowledge of what a wide variety of threats look like under X-ray. The more different types of threats a student sees during training, the better prepared he will be to identify these threats in an operational setting. Trainers can also tailor training sessions to focus on specific threats of concern for their organization. The image library and the adaptive algorithm provide an effective way to continuously increase the detection skills of each student.



Cargo Simulation Course Screen

### Courseware Specifications

**Applications:**

Initial, Recurrent, Refresher

**Delivery Options:**

CBT, ILT, WBT

**Estimated Seat Time:**

Operator Course: 1 - 2 Hours

Simulator Course: 2 Hours\*

**Image Libraries:**

Cargo, CBS, Court, HBS

**Languages:**

English, French, Italian,

Portuguese, Spanish

Note: Courseware availability is based upon selection from the above specifications.

\* Ongoing image interpretation practice is highly recommended to ensure screener proficiency.

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