Astrophysics XIS DV Operator Training Class

SAFE PASSAGE INTERNATIONAL

The Astrophysics XIS DV Operator Training Class is a course based on an advanced Dual View X-ray system designed for areas where X-ray security screening is crucial. Each student will learn how to properly operate the system as well as how to use image processing and zoom features to interpret X-ray images. On-screen simulations test each student's knowledge by requiring them to interpret X-ray images from an extensive image library. With dual X-ray generators, the XIS DV is capable of generating two perspectives per object scanned; one vertically view, and one horizontally view. The simulator course can be used with one monitor or with two monitors to simulate the actual Dual View system. The Dual View, Dual Monitor simulator gives the student an authentic experience that mirrors the actual setup of the XIS DV system, best preparing the student for an operational setting.

Operator Course Screen

Key Features
- Realistic simulation of machine
- Secure records management system
- Detailed training reports

Key Benefits
- Cost Effective - Safe and cost effective way to simulate use of the machine and practice interpreting scans for threat objects.
- Results Oriented - Custom simulation sessions focus on student needs to increase performance.
- Automated Remediation - Custom remedial training based on test performance.
- Efficient - Use the training anytime, anyplace and at the student's own pace.
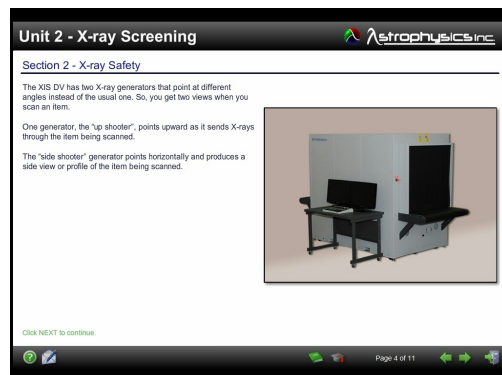- Flexible - Modify the testing and images to meet local needs.

Unit Exam

Course Topics
X-ray Screening - The student will learn about the fundamentals of X-ray screening, safety precautions to follow, and the basics of X-ray interpretation.
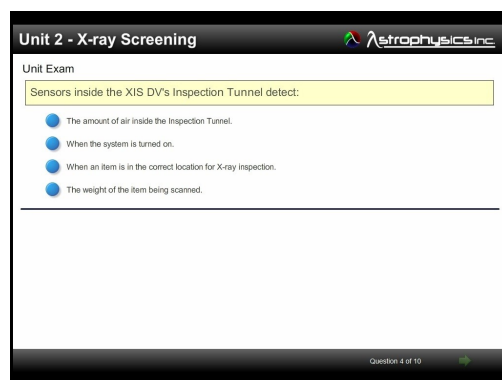
Operating the System - Teaches the student about the system's core parts and how to use its power and navigation controls.

Viewing X-ray Images - The student will learn the basic steps for scanning items and how to view X-ray images using various Image Adjustment Functions.

XIS DV Advanced Functions - Teaches the student how to use the system's many advanced functions.

Dual View, Single Monitor Simulation Course Screen

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 large image library of threats and the adaptive algorithm provide an effective way to continuously increase the detection skills of each student.

Dual View, Dual Monitor
Simulation Course Screen

Courseware Specifications

Applications:
   Initial, Recurrent

Delivery Options:
   CBT, ILT, WBT

Estimated Seat Time:
   Operator Course: 2-4 Hours
   Simulator Course: 5-10 Hours*

Image Libraries:
   CBS, HBS, Mailroom

Languages:
   English

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

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