

SmartApproach

Specialists in High-Tech Security Training



Cargo Simulator

Inappropriately packed and undeclared dangerous goods have been the cause of major aviation incidents. For example, the fire that broke out on ValuJet flight 592 causing it to crash into the Florida Everglades and killing all on board.

From past experience we know that terrorists are interested in air cargo consignments for the shipment of illicit goods or to hide an explosive device intended to bring down the aircraft. As a result, authorities now require an increasing proportion of cargo to be passed through x-ray screening equipment.

Your responsibilities

It is the responsibility of the carrier or its agent to provide adequate, ongoing training of x-ray screener operators. The SmartSystem cargo simulator is an important component in this training as it provides near perfect simulation of the x-ray equipment using computer-based training techniques. SmartSystem can be used as part of the induction training of new employees or for periodic re-training to maintain the highest performance levels.

Improving screener performance

SmartSystem has been developed under the supervision of UK Department for Transport approved security, firearms

and explosives trainers. Surveys have shown a 70% improvement in screener performance when SmartSystem forms a major part of a screener training program.

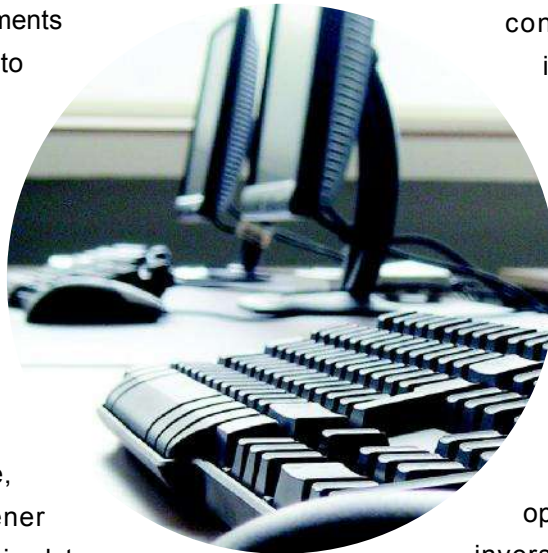
Exact replication of x-ray machines

Using computer-based techniques, SmartSystem enables an x-ray operator to view a large number of cargo consignment x-ray images, many of which contain security threats, such as improvised explosive or incendiary devices (IED/IIDs). Non-terrorist threats are also accounted for by the inclusion of a range of declared and non-declared dangerous goods.

The quality of our library of images is such that it is almost indiscernible from those produced by the 'real' x-ray machine, including all main strip options and enhancements, such as, inverse, crystal clear and high power.

SmartSystem will run on almost any modern PC running under Windows XP. If required, several networked PCs may be used to form a CBT classroom.

What constitutes a threat in the air cargo environment can be dictated by the content of the accompanying paperwork. A consignment of detonators accompanied by the appropriate dangerous goods declaration may be cleared by screeners while another similar consignment lacking the appropriate paperwork should be subjected to further investigation.





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The trainee is presented with a sequence of x-ray images of cargo items plus a representation of the x-ray machine control panel. Pressing the various control keys on the panel allows the various image enhancement functions to be activated exactly as they are on the x-ray equipment.

The trainee can also see a simplified version of the accompanying documents showing the air waybill and any dangerous goods declaration. The student has the choice to clear the item of cargo, reject it because of incorrect paperwork or reject it because of a threat item. The rejection process includes specifically identifying the item of concern and its location in the consignment.

Training review and evaluation

At the end of a sequence of cargo, typically 20 cargo items, there is a review session and each item is revisited. The trainee's decision to reject or clear the item is compared to the correct decision and reasons provided. An opportunity is provided to view any threat item and compare the x-ray image with a photograph. As an alternative, for novice screeners, the system can be set to give instant feedback when a review of the trainee decision takes place.

An on-screen high level report indicates to the trainee whether they have passed or failed the session and where they have made errors.

Every trainee has their own individual log in. The system records their performance scores, thereby allowing the trainer to issue certification, or where appropriate, identify weaknesses and help to improve their skills through further training sessions. These records also provide evidence in the event of a security audit or investigation following an incident.

If you are interested in this, or any of our other courses, please email or call us today and speak to a representative about how we can help you.

