

Computer Based Training Systems



Drumgrange combines experience with engineering excellence to create flexible simulation and computer based training (CBT) systems. Drumgrange has delivered training systems for the Royal Navy School of Maritime Operations, Royal Navy Mine Warfare School and the All Arms School.

PTARMIGAN CBT

Through scenario driven exercises, utilising accurate emulation of operating positions, the system provides a practical and effective means of operator training for the remaining lifetime of Ptarmigan.

MARITIME WARFARE CENTRE TACTICAL TRAINER

Drumgrange developed the full emulation of Naval ESM, jammer and close-in weapon systems for use in the CTT at Maritime Warfare School. The systems made use of Harris UNIX mini-computers.

MOBILE TRUNK COMMUNICATIONS TRAINERS

Osprey

The Osprey CBT provides Ptarmigan Network Management training with individual or group modes. The instructor has facilities to generate and maintain exercises, monitor and evaluate student performance. Custom-designed keyboards and terminals exactly emulate the Ptarmigan fielded equipment.

AASTER

AASTER provides initial operator/maintainer training and practice in the use of Ptarmigan Single Channel Radio Access Terminal (SCRA(T)) equipment. Based on the Drumgrange digital telephone exchange, the system supports up to 27 simulators, which emulate in-service Ptarmigan equipment. Each system has a central console, which enables the instructor to control the AASTER Trainer and monitor student responses to simulated faults and Ptarmigan conditions.

INTERACTIVE BOWMAN TRAINING SYSTEM

Drumgrange supplies the British Army with computer-controlled Radio Propagation Simulators (ComSim). The ComSim system simulates the placement of trainees, each equipped with different suites of Bowman radios installed in a mock-up vehicle, at selected map locations, under the guidance of an instructor. The system computes the propagation path loss, distance, topography and other variables and sets the attenuation level between the radios accordingly. When shielded by terrain features, trainees can move their vehicles or select between HF, VHF and UHF radios, in order to maximise throughput of radio traffic and accomplish their assigned mission. ComSim can be adapted to any radio system.

XERES TRAINING SYSTEMS

A XERES Special Communications Training System has been installed at HMS RALEIGH to train the crews conducting Maritime Interdiction operations.



“We design, develop and manufacture innovative products and are also experts at integrating existing technology to create successful, cost effective solutions.”



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