

## TOW ITAS BASIC SKILLS TRAINER (BST)

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**Training Category/Level Utilized:**

CAT 1/Company level

**Logistic Responsible Command, Service, or Agency:**

Fieldings and Net - Close Combat Missile Systems  
Field Support - PEO-STRI

**Source and Method of Obtaining:**

POC: PEO STRI  
CCMS Project Office

**Purpose of Trainer:**

The TOW ITAS Basic Skills Trainer (BST) is a PC-based indoor training device used to conduct initial entry basic skills training, perform basic and advanced gunnery sustainment training in the unit, and formally qualified gunners to meet soldier requirements for the TOW ITAS anti-tank weapon system.

**Functional Description:**

The BST consists of a PC-based Instructor Station and a Student Station. The Student Station consist of a Simulated Target Acquisition Subsystem (STAS) and a Simulated Fire Control Subsystem (SFCS) used with the ITAS tactical

tripod, traversing unit, and a simulated round. The Instructor Station is a PC computer loaded with the BST software and a library of exercises designed for ITAS training. During Training, the instructor chooses exercises from the library and briefs the student about exercise objectives. When ready, the gunner, at the Student Station, looks through tactical sights, views the 3D exercises piped from the BST software on the Instructor Station, and conducts exercise engagements using the BST controls, switches and menus as he would the tactical system. Terrain imagery shown during BST exercises is derived from actual daylight and 2<sup>nd</sup> generation FLIR digital photographs of representative terrain. Targets are 3D wire-frame models overlaid with photo-realistic daylight and IR textures that move across preset waypoint paths on the terrain. The student scans his sector of fire, classifies and identifies targets and engages them where appropriate. The Instructor Station stores the student data to a floppy diskette, replays exercises for review, and scores the student's performance based on objective, numeric criteria (i.e. manual engagement flight control, Aided Target Tracker operation, and critical gunner errors).