

T-1A Combat System Officer (CSO) Training



Airborne Simulation | Radar and EW Systems | Intercept "Live" and "Virtual" Targets



The T-1A CSO in-flight training initiative is a cutting edge program created by the Air Education Training Command (AETC) of the United States Air Force to prepare the next generation of Combat System Officers for modern combat. Camber Corporation is proud to perform as the prime contractor to provide this visionary capability. Camber is modifying a portion of the existing T-1A aircraft fleet to meet the CSO training requirements defined by AETC, which include two instructor stations and two student training stations that present **real-time simulations** of **radar, electronic warfare, navigation** and **weapons systems** equipment. This unique training environment solidifies tactical and crew resource management skills essential to the operation of today's complex aircraft.



Camber Corporation

635 Discovery Drive • Huntsville, AL 35806-2801 • 256.922.0200
www.camber.com



The T-1A CSO aircraft is the first of a new generation of aircraft which include simulated systems to provide training in complex systems without the expense, weight, and reliability issues that come with real systems.



Camber is modifying T-1A aircraft to provide a broad suite of training capability

Robust Network-Based Simulated Threat Environment with Electronic Order of Battle

Simulated Electronic Warfare and Weapons Equipment



Simulated Air-to-Air Radar with Synthetic and Live Radar Intercepts and Weapons Equipment

Simulated Navigation Radar with Synthetic CONUS Database

Simulated Navigation Instruments driven by the Aircraft data bus

Mission Planning with standard USAF flight and mission planning software (FalconView)

Intercom System to Support three private networks for Instructors and Students

Post-Flight Mission Playback and Debrief Capability

T-1A Combat System Officer (CSO) Training

Aircraft Modification

- Added three cabin seats with expanded oxygen system
- Installed new intercom system to support private networks
- Added Student and Instructor work stations with displays and controls
- Integrated Simulation Computers to ARINC 429 data bus
- Installed an ADSB transponder system and Integrated to simulation computers to support live radar targets and live radar intercepts
- Modification is FAA Certified under a Supplemental Type Certificate (STC).

System Support

- Updated and added new technical orders/drawings to the aircraft data package.
- Provided aircraft spares
- Field Service Representative (FSR) provided on-site support.
- Training course for Government maintenance personnel was provided.
- Training course for USAF instructors was provided.



Camber Corporation
635 Discovery Drive
Huntsville, AL 35806-2801
256.922.0200 • www.camber.com

