



Cyberspace Training Initiative (CTI)

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CTI Foundation

CTI provides an approach for educating, training, exercising, evaluating, and assessing joint forces in conducting cyberspace operations. This is accomplished through integration and synchronization of training efforts with key stakeholders.

- ☑ Drafted Joint Cyberspace Training Plan (JCTP)
 - ☑ Mission analysis leading to six CTI components
- ☑ CTI recognized by CJCS as a leading-edge initiative for analyzing issues [CJCS Memo to SECDEF, 6 JAN 2012]
- ☑ Engaged across DoD, USG, and non-government organizations to gain a holistic view of cyberspace operations issues



Component 1: Joint Learning/Force Development

- ☑ Developed and published *Joint Staff Officer Cyberspace Operations Awareness Course on JKO*
- ☑ Created the Cyberspace Operations Training Portal on the All Partners Access Network (APAN) that includes catalog, references, and resources sections
- ☐ Developing a *Cyberspace Operations for the Joint Warfighter* curriculum (100-, 200-, and 300-level courseware)



Component 1: Joint Learning/Force Development

- Designed and completed *Joint Cyberspace Training and Certification Standards (JCT&CS)*. Signed February 2012
 - Expanded analysis for identifying DoD cyberspace work-roles and definitions
 - Developing CCMD/JCC Capability Requirement (Cyberspace Operations tasks and associated KSAs based on cross-walk of the JCT&CS with the cyber C2 CONOPS)
- JCT&CS established complementary joint training and certification standards for the cyberspace workforce with inputs to revisions for 8140/8570/1322.CC



Component 1: Joint Learning/Force Development

- ☑ Coordinated effort to institute a Cyberspace Operations Planner's MTT focused on CCMD staffs
- ☑ Designed and implemented a 12-month User Awareness (UA) Pilot program to identify gaps and raise awareness for general and technical users at USSTRATCOM
 - ☐ Coordinating with DoD CIO and DISA to expand pilot to DoD-wide network user audience
 - ☐ Coordinating with USCENTCOM for additional pilot program participation
- ☑ Provided continuously updated products for UA to include: Cyber Awareness Corner, Newsletter, Daily Digit, Cyber Speaker Series, Cyber Focus Day, Phishing Awareness



Component 2/3: Exercise Planning and Training Events

- Support the design, planning, execution and assessment of cyberspace operations within the CJCS Exercise Program
 - Coordinating guidance for a cyber threat actor playbook that would provide analysis for scenario design and execution
 - Designing a “ready to use” cyberspace vignette workbook that will provide access to CCMD scenario planners for immediate use to drive quick training events
- Planned and conducted Cyber Flag 12
- Planning Cyber Flag 13 (executes 29 Oct – 9 Nov)
- Planned and conducted Cyber Guard 12
- Conducting an analysis to determine COAs for integrating degraded/denied cyber environments in exercises.



Component 4: Modeling and Simulations / Cyber Ranges

- Identify M&S capability requirements to support cyberspace training
 - Drafted Step 1 Document, *Issue Description*, for M&S requirements
 - Developed CTI M&S Roadmap
- Coordinated and led efforts for network design and configuration during Cyber Flag
- Providing research and analysis for expanding secure virtual mission environment for current operating picture (COP) and shared situational awareness (SSA) situations



Component 5: Network Defense / Red Team Capabilities

- ☑ Provide ongoing NIPR/SIPR assessment for USSTRATCOM with training for technical users in the NOC
- ☑ Participated cyber aggressor campaign strategy for Cyber Flag as a parallel training effort outside of Red Team activities
- ☑ Provided research and analysis reports for ISPAN vulnerability, Phishing Awareness training, and Cloud Service and Computing
- ☑ Provided USSTRATCOM J6 training for HBSS deployment



Component 6: Cyberspace Assessments

- ☑ Completed assessment reports on each MTT to measure the effectiveness of the curriculum.
 - ☑ Results provided to DASD (P) Mr. Rosenbach
- ☑ Provided feedback and assessment on effectiveness of USSTRATCOM Pilot activities to senior leadership