

**Use Cases
For
Persistent Cyber Training Environment (PCTE)
Cyber Innovation Challenge #2**

Use Case 1: Team Training

A Team Lead or Commander wants to establish a training session. They determine the training objectives for the team and search for available, relevant training in the repository. The PCTE system determines that the requester has the proper authorization. The order portal performs review of the trainee(s) history to ensure that prerequisites are met. If not, the requester can plan individual training or can continue to plan for alternative training. In addition, they can review the ratings and feedback of others that have received training. The requester can collaborate with other trainers that had undergone training.

If the training is available, they schedule time on a training range. The PCTE system will determine if assets are available based on the scheduling capability. If it is available, then the event will be scheduled otherwise new alternative dates will be offered.

On the scheduled training date, the team meets at the crew training facility and begins activating training through the portal. The CMF team conducts training using the PCTE system capabilities. At the conclusion of training, the trainees and the training manager provide feedback on the quality of the training. Then, these metrics are integrated into the training package.

A similar process takes place for individual training. Only the individual uses the tool to find training and request from the team lead to request new training. Training content can be brought in and integrated into the PCTE environment using standardized import capabilities.

Use Case 2: Content Repository as related to Event Design and Event Execution

There are multiple members of an event design team that serve different purposes such as creating Red (OPFOR), Blue, Grey, Tool Management, Intelligence, etc. Each member of this team is responsible for adding, deleting, retrieving and updating their data in planning an event. This team may be distributed across different networks and need to be able to search for specific capabilities and artifacts. There will be a lot of products used so a dashboard like capability will be utilized to support indexing and accessing metadata that will assist with quickly finding and differentiating capabilities at different levels of classification.

Some of the content (e.g. individual training) may be provided from industry and will reside in the PCTE environment. As a scenario is developed components are integrated from individual sources to create a large scenario.

As a scenario is provisioned and executed, the Exercise Control/ White Cell may request that data be check-pointed and archived for replay. For Force Level exercises, this may be quite large and distributed.