# SYNOPSIS

*COURSE TITLE:* Security Engineering

*LOCATION:* Variable

*PURPOSE:* To provide a basic understanding of security engineering principles so that security and engineering personnel can work together more effectively to address security and antiterrorism/force protection issues at the inception of a construction project for new or upgraded facilities.

*SCOPE:* This course covers the information contained in the Unified Facilities Criteria (UFC) document 4-020-01, Security Engineering Planning Manual. In addition, the course will cover the contents of 4-010-01, DoD Minimum Antiterrorism Standards for Buildings, UFC 4-010-02, DoD Minimum Antiterrorism Standoff Distances for Buildings. These UFC's present a process by which a planning team consisting of provost marshal, engineer, and other appropriate personnel, along with the ultimate facility user, can formulate security-related design criteria for a facility. The design criteria consists of the assets to be protected, the threat to those assets in terms of specific aggressor tactics, the degree to which the asset will be protected against the threat, and any user-imposed design constraints. The UFC's further provide a process by which protective measures to counter the threats to assets can be determined and integrated into a total protective system. They also provide a means to estimate a preliminary cost for the system. The course consists of formal instructional periods in applying the processes in the UFC's with interspersed sample problem exercises. The course includes instruction on application of the Interagency Security Committee standards that are required to be applied to DoD leased facilities off military installations. In addition, the course provides information on how risk analysis and regulatory requirements for physical security and antiterrorism/force protection are incorporated into facility planning. The course also includes a comprehensive practical problem solved and presented by students divided into interdisciplinary groups.

*PERFORMANCE OBJECTIVE:* Students will learn the concepts and philosophies of security engineering. Engineers and security personnel will gain a better understanding of each others' different needs and approaches. This understanding will enable them to work together more effectively to address security problems. Students should be able to apply the concepts and philosophies of security engineering sufficiently to put together preliminary solutions to real security problems and work as partners on an interdisciplinary planning team.

*WHO SHOULD ATTEND:* Civilian and military (commissioned officer, warrant officer, and enlisted) personnel involved in security or engineering support of security. Security personnel may include people from provost marshal or other security and law enforcement offices, especially those personnel involved in physical security. Engineer personnel may include planners and designers from Corps of Engineers offices and Directorates of Public Works. In addition, emergency management personnel and those responsible for key asset protection will benefit from this course. Personnel from installation level, major command level, and Corps of Engineers district and division levels are encouraged to attend. Representatives from other government agencies may also attend.