

# Nuclear Fundamentals Concepts

*Internet Address*  
<http://cpc.au.af.mil/>

**Mission.** Provide education and research on the nuclear enterprise and WMD threats and appropriate countermeasures to AF and DoD leaders.

**Program Description.** The purpose of the Nuclear Fundamentals Concepts Course is to provide broad overview of the Air Force nuclear enterprise and creates a standard frame of reference to educate Airmen on the Air Force nuclear mission.

**Learning Outcome.** Comprehend the purpose of nuclear weapons, AF force structure and nuclear deterrence mission, and nuclear surety guidelines.

**Faculty.** The qualifications for faculty include extensive backgrounds in the Air Force nuclear enterprise (nuclear operations (e.g., ICBM/Bomber operations), nuclear security forces, missile and nuclear weapons maintenance, arms control, weapons systems acquisition, and/or policy development) to provide the professional functional expertise. The course uses adjunct professors, visiting instructors and subject-matter experts from the Air University (AU), National Nuclear Security Administration (NNSA) and the National Nuclear Laboratories (e.g., Sandia National Lab (SNL), Lawrence Livermore National Lab (LLNL), and Los Alamos National Lab (LANL) , Air Force Nuclear Weapons Center (AFNWC), Headquarters Air Staff, Defense Threat Reduction Agency (DTRA), Air Force Global Strike Command (AFGSC), and United States Strategic Command (USSTRATCOM) to provide specific academic focus on nuclear topics. In addition, a retired Air Force General Officer with extensive experience in the Air Force Nuclear Enterprise serves as an in-resident Senior Mentor for each class.

**Duration.** 4 days.

**Eligibility.** Directors, division chiefs, deputies, action officers with nuclear operations, logistics, acquisition, or support duties, ranging from O4-O6, E6-E8, GS 11-13. Attendance is controlled by MAJCOM quota allocations.

This course is not yet listed in the Education and Training Course Announcements (ETCA) web site. ETCA course number will be MNUC200.

**Completion Requirement.** Students must complete the following 32-hours resident program and participate in case study development to graduate.

## Syllabus

MNUC200 Learning Areas	Contact Hours
Nuclear Weapons Fundamentals and DoD Nuclear Community	2

<b>AF Nuclear Force Structure and Mission</b>	<b>6</b>
<b>Stockpile Guidance and Planning</b>	<b>8</b>
<b>Nuclear Weapon Control and Security</b>	<b>12</b>
<b>Nuclear Enterprise Discussion</b>	<b>4</b>

### **Course Description**

#### **MNUC200 Nuclear Fundamentals Course 32 Contact Hours**

This course prepares junior Air Force leaders (O1-O3, E-6-E7, and mid-level government civilians) with the basic awareness and fundamental understanding of nuclear weapons and their effects, the Air Force nuclear enterprise, and the importance of nuclear surety (to include safety, security, and reporting). This education is a primary component of the Chief of the Air Force's vision to strengthen the Air Force Nuclear Enterprise.