CADET ENCAMPMENT PROGRAM A5

Introduction to the Cyber Domain

Guidance for Instructor

Date & Time of Talk:

Location:

Arrival Time:

Point of Contact:

Cell Phone:

Email:

Thank you for volunteering to support Civil Air Patrol cadets. You're going to have fun interacting with the cadets because this group is bright, enthusiastic, and possesses a seriousness of purpose that you won't find among an ordinary group of young people.

This Lesson in Context. The encampment program's aerospace block has five main components: an introduction to aviation's academic foundations (activity A1), an introduction to space sciences (activity A2), an introduction to military airpower doctrine (activity A3), an introduction to the cyber domain (activity A5 - *this session*) and finally at least 6 hours are devoted to aerospace or cyber-related field trips, hands-on activities, flying, or other types of experiential learning (activity A4).

Suggested Instructor. An experienced CAP officer who works in the cyber industry is perhaps the ideal instructor. Guest speakers who are military or civilian cybersecurity or information technology professionals could also make great contributions.

Selecting a Topic. As the instructor or guest speaker, you are free to choose any cyber topic as your subject. Please consider what tours and hands-on activities the cadets will be participating in at the host installation / facility, and try to select a topic that would provide a suitable academic foundation for those tours or activities. For example, if the cadets will visit a base communication squadron, a lesson focused on computer networks and how they can be protected from our adversaries would be a good choice. Alternatively, if cadets will visit a local high tech company, a class about that company's technology would be ideal. Cadets will learn best if your classroom lesson has a connection to their field trip(s).

Some possible topics to consider include:
- Individual safe computing practices
  - Protecting personal information online
  - Social media posting
  - Interacting with people online
  - Being a responsible cyber citizen
  - Cyberbullying
  - Recognizing and avoiding phishing, social engineering and malware
- Importance of cyber defense and cybersecurity to national interests
  - Role of computer systems infrastructure to our everyday lives
  - How cyberwarfare has evolved in national defense
  - Value for criminals to exploit weakness in cyber systems
- Cyber career exploration
  - Military cyber system/warfare operations career fields
  - Information technology and security careers
  - Undergraduate/graduate college degree programs in computer science
  - Certification opportunities at various stages of education and experience in information technology
  - Internships and other experience-building engagements
- CAP cyber-related cadet activities
  - Cyber Defense Training Academy
  - CyberPatriot
  - National Collegiate Cyber Defense Competition
  - US Cyber Challenge

Resources. There are resources are available through CAP's cyber education webpage, cyber.cap.gov. Find more information about the CAP cyber related activities at ncsas.com.

Suggested Duration: 60 minutes.   You could instruct during a single 60-minute class, or perhaps two 30-minute sessions would be preferable. Please confer with the encampment staff

Audience.   Teenaged cadets enrolled in the Civil Air Patrol Cadet Program, a youth activity imparting leadership skills in an aerospace-themed environment. Their #1 area of interest for cadets is aviation or aerospace. Their #2 area of interest is military service and leadership in general. Your CAP point of contact will tell you how many cadets are in attendance.

Cadets' Backgrounds.   Cadets arrive at their annual encampment with an enthusiasm for aviation, space, and technology. Some cadets will come from local units with strong cyber programs and so will possess a good deal of basic knowledge of information technology and cyber security, while other cadets will be brand new to the program and/or hail from squadrons that do not showcase cyber as much. As a presenter / instructor, be prepared for a diverse, but enthusiastic audience.

Suggested Format. Cadets relate best to specific examples, not abstract concepts. Speak anecdotally. Use your life experiences to convey a personal perspective about the cyber domain. Have some questions prepared to direct to the audience and/or allow time for the cadets to pose questions to you. A back-and-forth discussion is better than a lecture.

Audio Visual Support. Your CAP point of contact will tell you what A/V support is available.