



Cadet Cyber Programs

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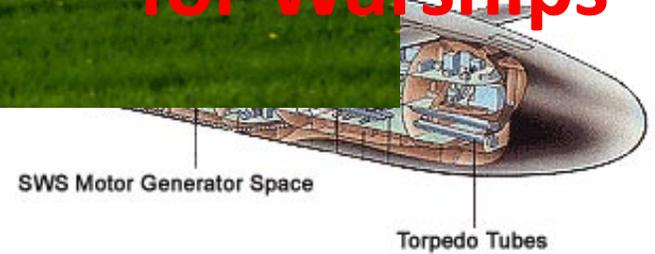
<https://www.youtube.com/watch?v=p4ODFwC4FeA>

USAF CYBER VIGNETTE





Microsoft
Windows ~~XP~~
for Warships









Ooops, your files have been encrypted!

English



not so enough time.

You can decrypt some of your files for free. Try now by clicking <Decrypt>.

But if you want to decrypt all your files, you need to pay.

You only have 3 days to submit the payment. After that the price will be doubled.

Also, if you don't pay in 7 days, you won't be able to recover your files forever.

We will have free events for users who are so poor that they couldn't pay in 6 months.

Payment will be raised on

1/4/1970 00:00:00

Time Left

00:00:00:00

Your files will be lost on

1/8/1970 00:00:00

Time Left

00:00:00:00

How Do I Pay?

Payment is accepted in Bitcoin only. For more information, click <About bitcoin>.

Please check the current price of Bitcoin and buy some bitcoins. For more information, click <How to buy bitcoins>.

And send the correct amount to the address specified in this window.

After your payment, click <Check Payment>. Best time to check: 9:00am - 11:00am GMT from Monday to Friday.

Once the payment is checked, you can start decrypting your files immediately.

Contact

If you need our assistance, send a message by clicking <Contact Us>.

We strongly recommend you to not remove this software, and disable your anti-virus for a while, until you pay and the payment gets processed. If your anti-virus gets updated and removes this software automatically, it will not be able to recover your files even if you pay!

[About bitcoin](#)

[How to buy bitcoins?](#)

[Contact Us](#)



Send \$600 worth of bitcoin to this address:

Copy

Check Payment

Decrypt

CAP Next Generation Missions



The seal of the U.S. Air Force Cyber Defense Training Academy is centered in the background. It features an eagle with wings spread, holding a shield on its chest. The eagle is superimposed on a circular background containing binary code (0s and 1s). The text "CYBER DEFENSE TRAINING ACADEMY" is written along the top arc of the seal, and "U.S. AIR FORCE AUXILIARY • CIVIL AIR PATROL" is written along the bottom arc.

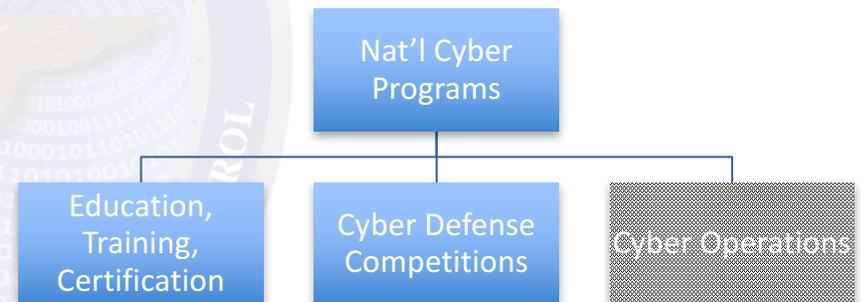
**THE COUNTRY NEEDS CYBER
PROFESSIONALS**



CAP CYBER PROGRAMS

Cyber Programs

- Education, Training and Certification
 - Focuses on career development
- Cyber Defense Competitions
 - Focuses on real-world application
- Cyber Operations
 - Performing cyber operations to defend national cyber infrastructure



Cyber Program Initiatives

- Regional and Wing Cyber Program Officers
- Cyber Defense Competition Playbooks
- Cadet Cyber Badge Program
- Cyber Competition Ribbon
- Encampment Cyber Elective



Year in review

REGION AND WING CYBER PROGRAMS



Cyber Programs Officers

- Region and Wing level positions
- Currently tasked to
 - Host training activities (e.g. Cyberspace Principles Course)
 - Track all cyber competition participation
 - Promote cyber security careers
 - Promote cyber activities within their region or wing



Cyber Programs Officers

- Current progress
 - MER: full cyber program with region support
 - GLR: full cyber program with region support
 - RMR: partial cyber program endorsement
 - SWR: partial cyber program endorsement
- Most successful program to date: MER



MER Cyber Program In Review

- Finalizing MER Strategic Cyber Plan
- Wings with Cyber Officers
 - Virginia
 - West Virginia
 - Maryland
 - South Carolina
 - NATCAP
- 100% contact with CyberPatriot teams
- Scheduled three weekend cyber activities



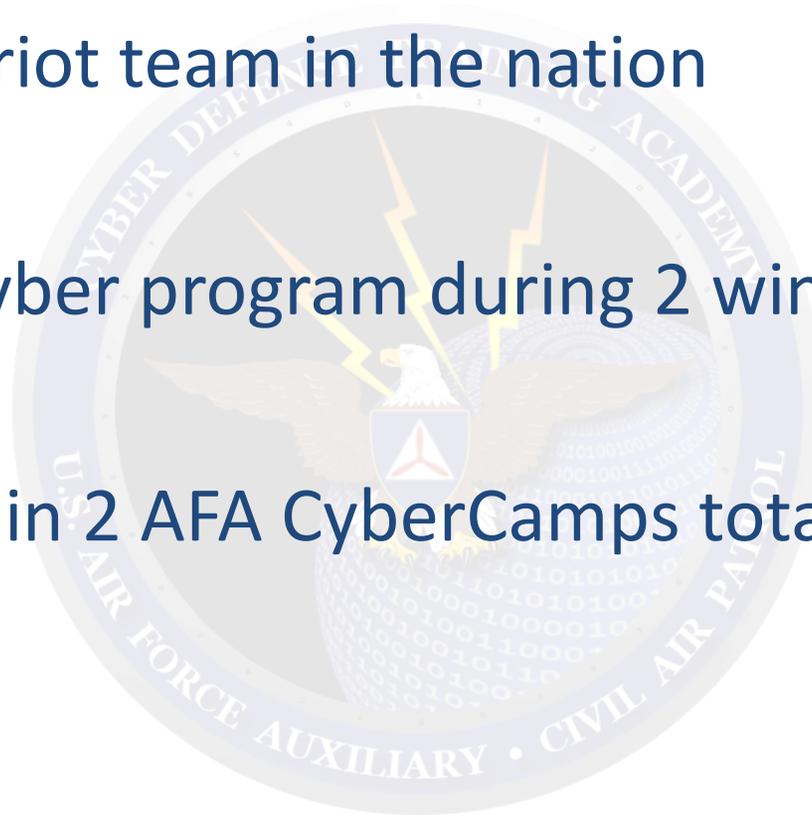
GLR Cyber Program In Review

- Presented cyber program to GLR conference
- Taught Cyberspace Principles Course in April
- Scheduled a Cyberspace Principles Course to be taught in October
- Developed the CyberPatriot playbook



RMR Cyber Program In Review

- #1 CyberPatriot team in the nation
- Presented cyber program during 2 wing conferences
- Participated in 2 AFA CyberCamps totaling 40 students



Cyber Defense Training Academy

- Founded in 2014
 - NCSA credit within its first year of operation
- Official CAP Cyber Familiarization Course
- Four courses offered every year
 - Cyberspace Familiarization Course (cadet only)
 - Cyberspace Advanced Course (cadet only)
 - Cyberspace Networking Course (cadet only)
 - Cyberspace Instructor Course (cadet and senior)

Course Map

Cyberspace Principles Course

Cyberspace Familiarization Course

Cyberspace Advanced Course

Security Track

Networking Track

Cyberspace Networking Course

Basic

Familiarization

Intermediate

Year in review

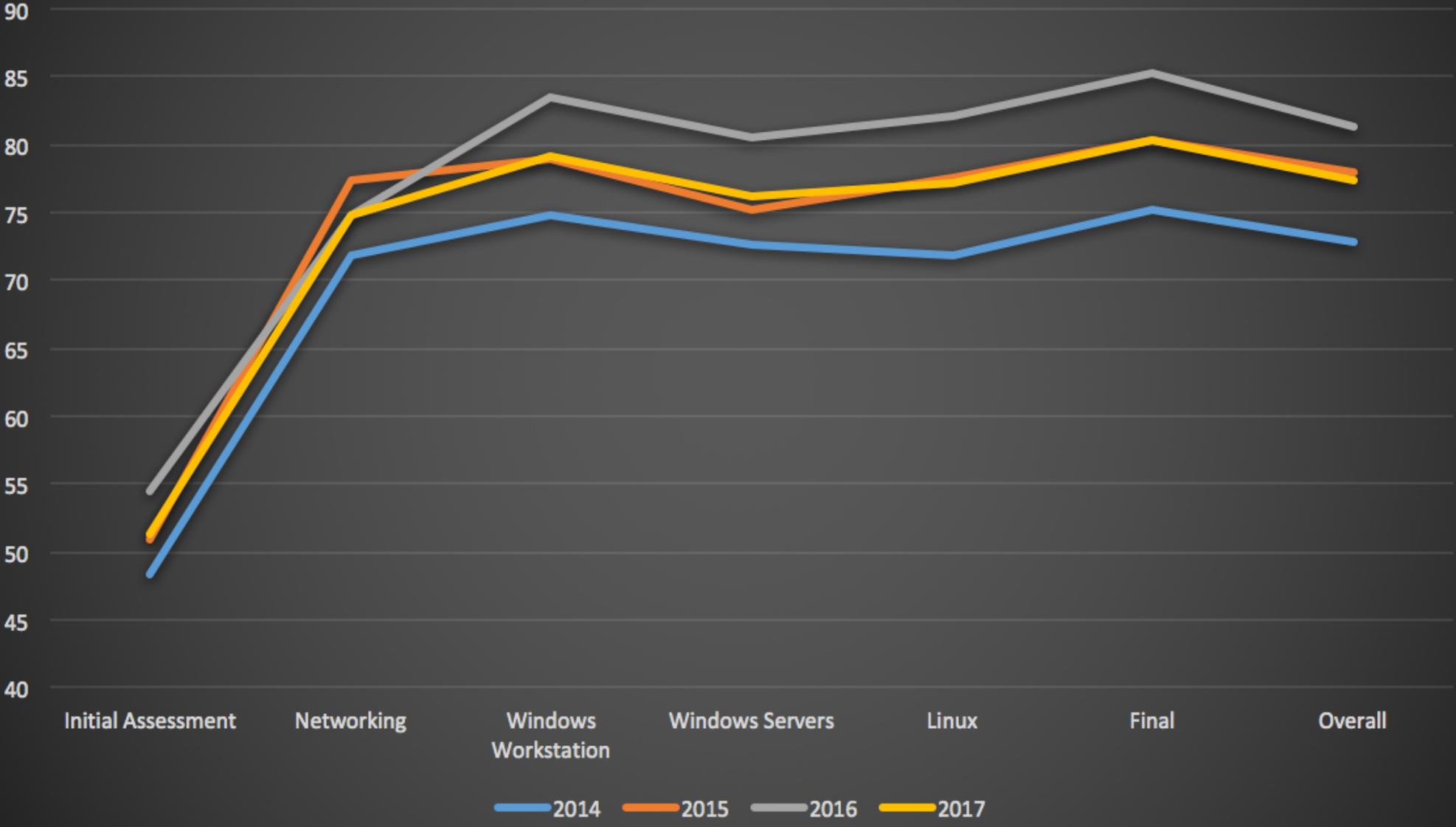
EDUCATION AND TRAINING



Cyber Defense Training Academy

- Students receive
 - Course book (e.g. 400 page CFC book)
 - 4 days of academics
 - 1 day of practical exercise called the **GRADEX**
 - Cadets are tested before and during course
 - Average improvement is **+28 points** on 100 point scale
- End of year four
 - Added two new campuses
 - Instructed **148** students in 2017
 - Total number trained: **293**

Cyberspace Familiarization Course Scores



Cyberspace Principles Course

- Self-paced course covering
 - Cybersecurity concepts
 - Cryptography
 - Threats in Cyberspace
 - Crime and Abuse
 - Ethics
- Designed to be taught at the squadron, group, wing level
- Pre-req for cyber NCSA
- One of the requirements in the cyber incentive program



Cyberspace Principles Course

Organization: Cyber Defense Training Academy
Author: Maj Jacob Stauffer
Contributors: Lt Col Paul Creed III, Capt Chuck Milam
Released: 20170601
Version: 2
Revision: 1

DESCRIPTION

CADET COURSE ONLY! This course is designed to familiarize students with the principles of cyber security and information assurance. Students will learn common terms and definitions along with basic principles like: cryptography, current threats, and ethics. Students will also learn common issues facing youth to include: cyber crime, cyber stalking, and cyber bullying. This course is the first requirement for the Cadet Cyber Badge - Technician Level and a prerequisite for the Cyberspace Familiarization Course (NCSA).

DISCLAIMER

The subject matter in this book was strictly developed for use by Cyber Defense Training Academy staff, designated training instructors, and course trainees. At no time will partial or full reproductions of this course, workbook, handouts, or presentations, electronic or printed material be made without the explicit written consent from the Cyber Defense Training Academy Commandant or designated approving authority. Violations will be pursued to the fullest extent of the law.

FOR INSTRUCTORS (READ ALL BEFORE REGISTRATION)

Year in review

CYBER COMPETITIONS

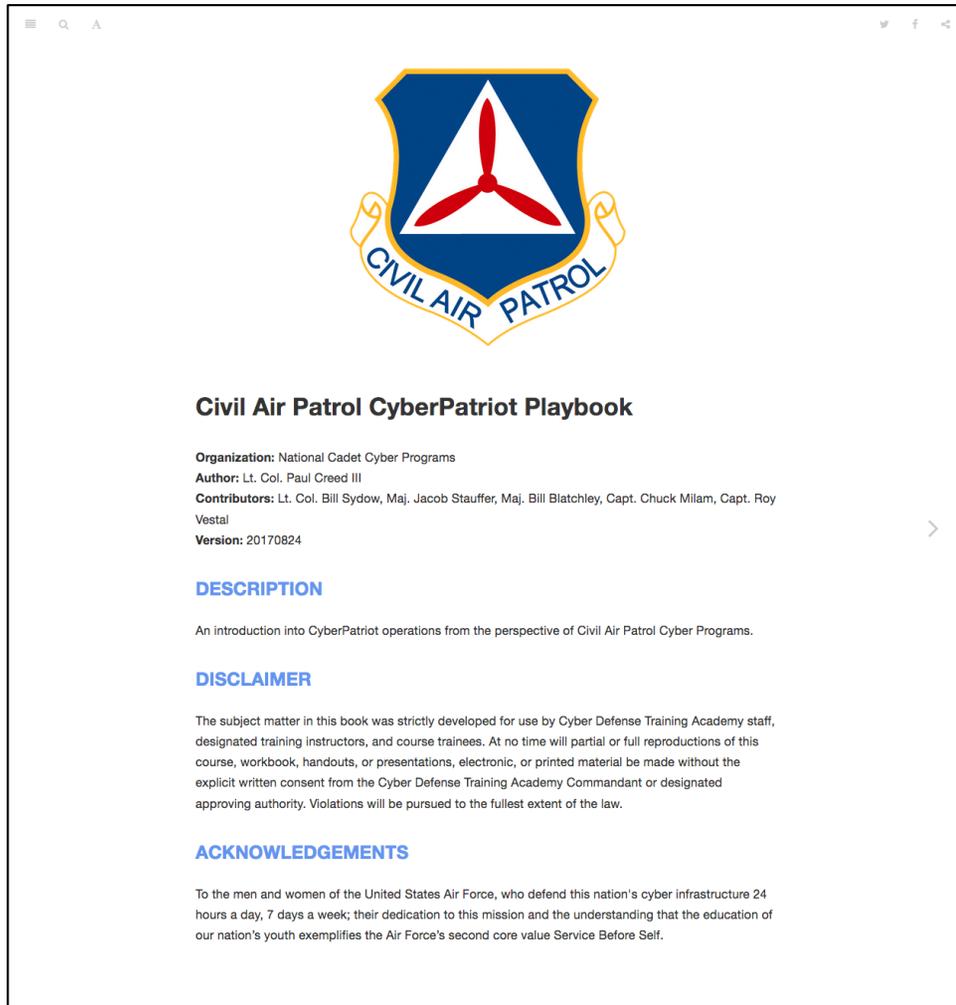


AFA CyberPatriot

- 571 teams registered / 310 competed
- 1285 CAP personnel participated!
 - 929 cadets
 - 356 senior members
- #1 CyberPatriot Team = **RMR-CO-030 Wolf Pack!!**



CyberPatriot Playbook



- First step in competing in CyberPatriot
- How to:
 - Register a team with AFA and CAP
 - Equipping and training a team
 - Getting ready for the competition

Quality Cadet Unit Award Credit

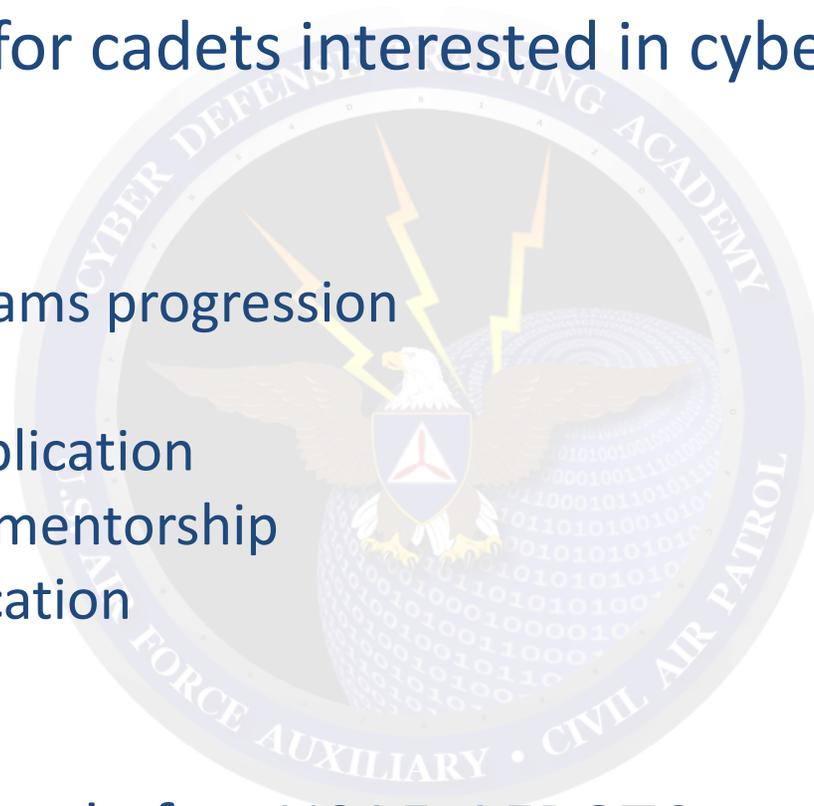
- CyberPatriot participation is part of the QCUA program
 - Units must actively participate (put points on the board) during Round 1 or Round 2
- ALL units must register their team with National Cyber Programs!
 - Instructions in the CyberPatriot Playbook
- This will tie into the future cyber competition ribbon!



CYBER PROGRAM INITIATIVES

Cadet Cyber Badge

- An incentive for cadets interested in cyber security
- Incorporates
 - Cadet Programs progression
 - Training
 - Practical application
 - Leadership/mentorship
 - Formal education
 - Certification
- Badges designed after USAF, AFROTC, and USAFA cyber programs.



Master

- **Achievement** - Earhart Award
- **Education** - CDTA Intermediate Course Graduate⁴
- **Practical / Mentorship** - Cyber Defense Competition Mentor (not active competitor)
- **Career Development** - Completed cyber-related certification⁵ or 2 semesters of computer science or equivalent courses⁶ at high school level or above



Senior

- **Achievement** - Mitchell Award
- **Education** - CDTA Cyberspace Familiarization Course Graduate³
- **Mentorship** - Teach Cyberspace Principles Course to local squadron, group or wing
- **Practical / Leadership** - Cyber Defense Competition Team Leader (one full season)



Technician

- **Achievement** - Wright Brothers Award
- **Training** - Complete Cyberspace Principles Course²
- **Compliance** - Achieve 80% or higher on Cyberspace Principles Course Exam
- **Practical** - Cyber Defense Competition Competitor¹ (one full season)



¹ National approved cyber defense competition (e.g. AFA CyberPatriot, SANS Aces)

² Found at <https://cap-cdta.gitbooks.io/cyberspace-principles-course/content/>

³ Cyber Defense Training Academy NCSA required in-residence course

⁴ Cyber Defense Training Academy NCSA in-residence course to include: Cyberspace Advanced Course or Cyberspace Network Course

⁵ National approved cyber security certifications to include: CompTIA Security+ or Network+. Students must complete course work and pass certification test

⁶ Degree programs include: computer science, computer engineering, cyber-security, cyber operations, information technology management

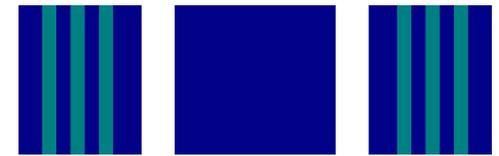
Cyber Competition Ribbon

- Currently being ratified
- Covers both cadet and senior competition participation
- Not just for CyberPatriot!



Cyber Competition Ribbon

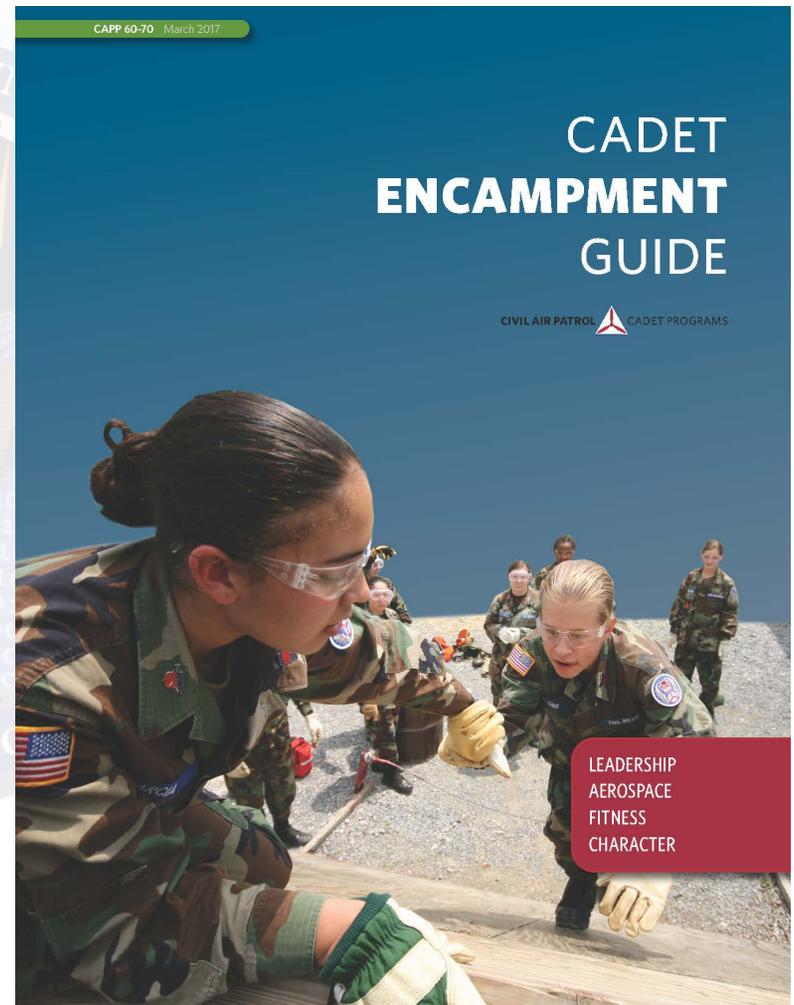
- Four levels
 - Basic
 - Wing (bronze star)
 - Region (silver star)
 - National (gold star)
- CyberPatriot Award Example
 - Platinum Tier = **Basic Award**
 - State Award winner = **Wing Award**
 - Category Round Participant = **Wing Award**
 - Category Round winner = **Region Award**
 - National Round Participant = **Region Award**
 - National Round Winner = **National Award**



Basic Award Proposal

Wing Encampment Cyber Elective

- 1 hour AE elective program
- Areas of focus
 - Safe computing
 - Importance of cyber defense to the nation
 - Cyber career exploration
 - CAP cyber-related activity overview





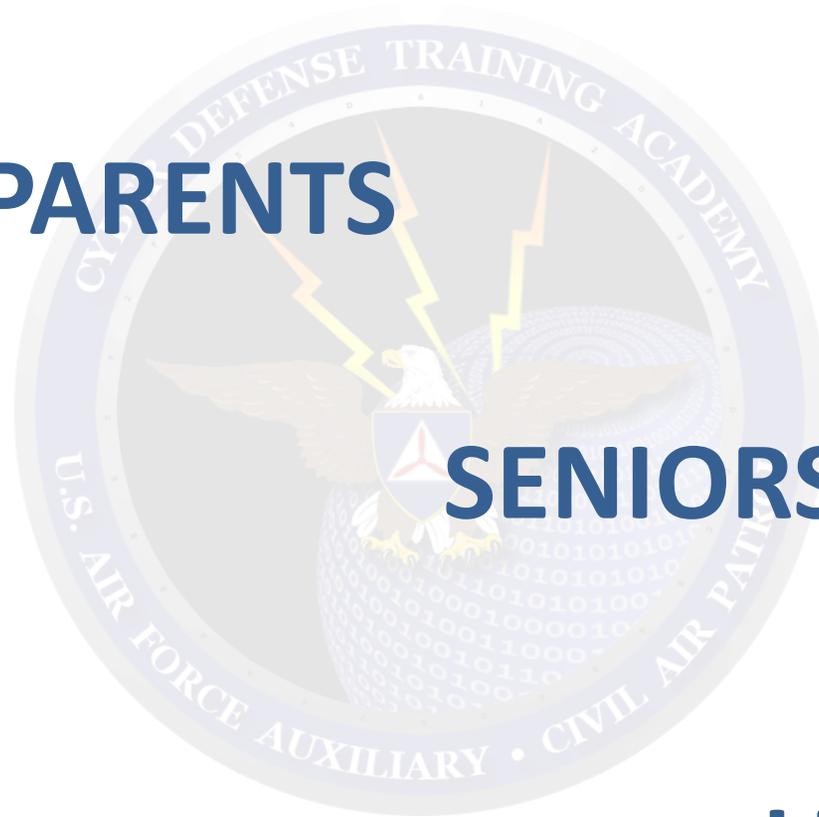
ARE YOU READY?

CADETS

PARENTS

SENIORS

LEADERSHIP



Resources

- CAP Cyber Programs – <https://cap-cyber.org>
- Cyber Defense Training Academy – <https://cyberdefensetrainingacademy.org>
- Cyberspace Principles Course Student Guide - <https://cap-cdta.gitbooks.io/cyberspace-principles-course/content/>
- CyberPatriot Playbook - <https://cap-cdta.gitbooks.io/cap-cyberpatriot-playbook/content/>



THANK YOU