

Cybersecurity Certifications

Derek Isaacs, CGEIT, CRISC, Security+, CEH, CNDA, ITILv.3

Kurt Danis, DoD CIO certified, CISSP, ISSEP, ITILv.3

Select Cybersecurity Certifications

- **Certs that support the RMF process**
- **Certs that support Forensics**
- **Certs that support Cloud Security**
- **Certs that support ITIL**

Governance & Guidance

- **National Cybersecurity Workforce Framework**
- **National Initiative for Cybersecurity Careers and Studies (NICCS)**
- **DoD Directive 8140.01, Cyberspace Workforce Management, 2015**
- **CAE-CD - Centers of Academic Excellence in Cyber Defense**
- **NIST Special Publication 800-160, Systems Security Engineering**

National Cybersecurity Workforce Framework

- Published by National Initiative For Cybersecurity Education (NICE)
- Developed w/ purpose of **PROMOTING** the nation's cybersecurity workforce
- 127 pages

NATIONAL INITIATIVE FOR CYBERSECURITY EDUCATION (NICE)

THE NATIONAL CYBERSECURITY WORKFORCE FRAMEWORK

INTRODUCTION
The ability of academia and public and private employers to prepare, educate, recruit, train, develop, and retain a diverse, qualified cybersecurity workforce is vital to our nation's security and prosperity. [\[full text version\]](#)

DEFINING CYBERSECURITY
Defining the cybersecurity population using common, standardized labels and definitions is an essential step in ensuring that our country is able to educate, recruit, train, develop, and retain a highly-qualified workforce. The National Initiative for Cybersecurity Education (NICE), in collaboration with federal government agencies, public and private experts and organizations, and industry partners, has published version 1.0 of the *National Cybersecurity Workforce Framework* ("the Framework") to provide a common understanding of and lexicon for cybersecurity work. [\[full text version\]](#)

THE CALL TO ACTION
Only in the universal adoption of the *National Cybersecurity Workforce Framework* can we ensure our nation's enduring capability to prevent and defend against an ever-increasing threat. Therefore, it is imperative that organizations in the public, private, and academic sectors begin using the Framework's lexicon (labels and definitions) as soon as possible. [\[full text version\]](#)

SECURELY PROVISION

OPERATE AND MAINTAIN

PROTECT AND DEFEND

ANALYZE

OVERSIGHT AND DEVELOPMENT

INVESTIGATE

COLLECT AND OPERATE

Home | Using This Document | Sample Job Titles | Securely Provision | Operate and Maintain | Protect and Defend | Investigate | Collect and Operate | Analyze | Oversight and Development

HOME

AWARENESS

EDUCATION

TRAINING

CAREERS

NEWS & EVENTS

COMMUNITY

RESEARCH

Veterans

The Veterans Cybersecurity Training and Education Guide helps veterans enter a rewarding career field.

[Learn More](#)

1 2 3 4 5

|| Pause



Veterans Cybersecurity Training and Education Guide

Discover pathways to a cybersecurity career

NICCS™ is the One Stop Shop for Cybersecurity Careers and Studies!

DoD Directive 8140.01

- Specialization changes row by row
- Experience increases to the right

Table AP3.T2 DoD Approved Baseline Certifications

| IAT Level I | | IAT Level II | | IAT Level III | |
|---|--|--|---------------|--|--------------------------|
| A+-CE Network+CE SSCP CCNA-Security | | GSEC Security+CE SSCP CCNA-Security | | CISA GCIH GSE GCED CISSP (or Associate) CASP CE | |
| IAM Level I | | IAM Level II | | IAM Level III | |
| CAP GISP GSLC Security+CE | | CAP GSLC CISM CASP CE CISSP (or Associate) | | GSLC CISM CISSP (or Associate) | |
| IASAE I | | IASAE II | | IASAE III | |
| CISSP (or Associate) CASP CE CSSLP | | CISSP (or Associate) CASP CE CSSLP | | CISSP - ISSEP CISSP - ISSAP | |
| CNDSP Infrastructure Support | | | | | CNDSP Incident Responder |
| CNDSP Analyst | | SSCP | GCIH | | CISA |
| GCIA CEH GCIH | | CEH | CEH GCFA | | GSNA CEH |
| | | | | | CNDSP Manager |
| | | | | | CISSP-ISSMP CISM |

CAE-CD designated institutions

209 Centers of Academic Excellence (CAEs)

Institutions in Colorado with the CAE-CD designation include:

- Colorado School of Mines
- Colorado State University-Pueblo
- Colorado Technical University
- United States Air Force Academy
- University of Colorado, Colorado Springs
- University of Denver

Retrieved on 15 June 2016 from <https://goo.gl/LVbjHr>



National IA Education &
Training Programs

NIST Special Publication 800-160

- HR-2 activity, task 1 below

HR-2. DEVELOP SYSTEMS SECURITY ENGINEERING SKILLS

HR-2.1 Establish a plan for systems security engineering skills development.

Elaboration: The plan addresses foundational systems security engineering skills development to build core and specialty competencies, and to grow competencies in core and specialty areas identified by gap analyses between the existing personnel skills and identified needs. The plan includes, for example, the types and levels of training; training sequences; learning paths and flows; training categories of personnel; and prerequisites for training.

NIST Special Publication 800-160 (Cont'd)

- HR-2 activity, task 2 and task 3 below

HR-2. DEVELOP SYSTEMS SECURITY ENGINEERING SKILLS (cont'd)

HR-2.2 Obtain systems security engineering training, education, or mentoring resources.

Elaboration: Systems security engineering training, education, and mentoring resources include, for example, degree programs; continuing education and training programs; and professional certifications. Resources may be developed or provided by the organization or through external parties.

HR-2.3 Provide and document records of systems security engineering skills development.

Elaboration: None.