



ISSA Central Maryland
University of Maryland Baltimore County
November 12, 2018

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Central Maryland Chapter

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Overview

- What do you need to consider when thinking about a career?
- Why choose Information Security as a career?
- What does Information Security consist of?
- What credentials/certifications are significant?
- What do Employers Want?
- What Skills/Knowledge will I need?
- What Education and Training are desirable?
- What types of jobs are available? – Gov, Classified
- What do the different types of employers look for?
- ISSA International, ISSA Central Maryland, ISSA UMBC
- **International Information System Security Certification Consortium = (ISC)² = (ISC)2**

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Know Yourself

- Get to know yourself and your core values to determine your current priorities
 - Repeat whenever necessary
 - Major Changes in Life
 - Marriage/Death in family
 - Layoffs/Firings
- What jobs will violate your core values?

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Your Strengths/Weaknesses 1/2

- **Sun Tsu, 545–470 BC**
 - If you know neither yourself nor your enemy, you will lose every battle.
 - If you know yourself but not your enemy, for every victory, you will suffer defeat.
 - If you know both your enemy and yourself, you will be victorious every time.

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Your Strengths/Weaknesses 2/2

- What are you good at doing?
- What do you enjoy doing?
- What makes you happy/unhappy?
- How much money do you need to live a happy life?

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How much money do you need to be happy?

- What kind of life does your spouse yet-to-be want?
 - To live the kind of life that will please both of you?
 - Reasons for Divorce
 - Factors that will require a higher salary
- Is your current job becoming obsolete?
- Do you have the ability/knowledge/experience/foresight to switch to a new career whenever necessary?


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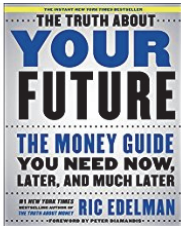
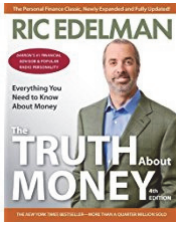
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Forecasting the Future


- The Truth About Your Future
- The Truth about Money
 - <https://www.edelmanfinancialengines.com/tv>
 - <https://www.youtube.com/playlist?list=PLBC9575439E58D342>
 - https://www.youtube.com/results?search_query=The+Truth+about+Your+Future++Ric+Edelman


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Why Choose InfoSec as a Career?

- What are my own priorities/values?
- Define the requirements to steer towards IS.
 - Huge Salaries?
 - The Great Outdoors?
 - Excitement?
 - Travel?
 - Job Security?

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What does InfoSec Consist of? – Slide 1/2

- Eight Domains for the CISSP Certification – per ISC2
 1. Security and Risk Management (Security, Risk, Compliance, Law, Regulations, Business Continuity)
 2. Asset Security (Protecting Security of Assets)
 3. Security Engineering (Engineering and Management of Security)
 4. Communication and Network Security (Designing and Protecting Network Security)

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What does InfoSec Consist of? – Slide 2/2

5. Identity and Access Management (Controlling Access and Managing Identity)
6. Security Assessment and Testing (Designing, Performing, and Analyzing Security Testing)
7. Security Operations (Foundational Concepts, Investigations, Incident Management, Disaster Recovery)
8. Software Development Security (Understanding, Applying, and Enforcing Software Security)

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Approved Baseline Certifications

IAT Level I	IAT Level II	IAT Level III
A+ CE CCNA-Security Network+ CE SSCP	CCNA Security CySA+ ** GICSP GSEC Security+ CE SSCP	CASP CE CCNP Security CISA CISSP (or Associate) GCED GCIH
IAM Level I	IAM Level II	IAM Level III
CAP GSLC Security+ CE	CAP CASP CE CISM CISSP (or Associate) GSLC	CISM CISSP (or Associate) GSLC
IASAE I	IASAE II	IASAE III
CASP CE CISSP (or Associate) CSSLP	CASP CE CISSP (or Associate) CSSLP	CISSP-ISSAP CISSP-ISSEP
CISP Analyst	CISP Infrastructure Support	CISP Incident Responder
CEH CFR CCNA Cyber Ops CySA+ ** GCIA GCIH GICSP SCYBER	CEH CySA+ ** GICSP SSCP	CEH CFR CCNA Cyber Ops CySA+ ** GCFE GCIF GCIH SCYBER
CISP Auditor	CISP Manager	
CEH CySA+ ** CISA GSNA	CISM CISSP-ISSMP	

<https://iase.disa.mil/iawip/Pages/iabaseline.aspx>

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Home > IA Workforce Improvement Program (DoD 8570) > Summary of IA Workforce Qualification Requirements

Summary of IA Workforce Qualification Requirements

Summary of IA Workforce Qualification Requirements	IAT I-III	IAM I-III	IASAE I-III	CND-A, CND-IS, CND-IR, CND-AU and CND-SPM
Initial Training	Yes	Yes	Yes	Yes
IA Baseline Certification	Yes (IA Certification) (within 6 months)	Yes (IA Certification) (within 6 months)	Yes (IA Certification) (within 6 months)	Yes (CND Certification) (within 6 months)
OJT Evaluation	Yes (for initial position)	No	No	Yes (except CND-SPM)
CE Certification	Yes	No	No	Yes (except CND-SPM)
Maintain Certification Status	Yes (as required by certification)	Yes (as required by certification)	Yes (as required by certification)	Yes (as required by certification)
Continuous Education	Yes (as required by certification)	Yes (as required by certification)	Yes (as required by certification)	Yes (as required by certification)
Background Investigation	As required by IA level and DoDI 8500.2	As required by IA level and DoDI 8500.2	As required by IA level and DoDI 8500.2	As required by IA level and DoDI 8500.2
Sign Privileged Access Statement	Yes	n/a	n/a	Yes (except CND-SPM)
Experience	IAT I: Entry level technical position – 0 to 5 or more years of experience in IA technology or a related area.	IAM I: Entry level management position – 0 to 5 years of management experience.	IASAE I: Entry level IASAE position with 0 or more years of IASAE experience.	Recommended years of experience in CND technology or a related field: CND-A: at least 2 CND-IR: at least 5 CND-AU: at least 2
Experience	IAT II: At least 3 years in IA technology or a related area.	IAM II: At least 5 years of management experience.	IASAE II: At least 5 years of management experience.	CND-IS: Recommended at least 4 years of experience supporting CND and/or network systems and technology.
Experience	IAT III: At least 7 years experience in IA technology or a related area.	IAM III: At least 10 years of management experience.	IASAE III: At least 10 years of IASAE experience.	CND-SPM: Recommended at least 4 years of experience in CND management or a related field.


*Classroom, distributive, blended, government or commercial provider

https://iase.disa.mil/iawip/Pages/summary_wf_requirements.aspx

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How important are Certifications?

- They eliminate one roadblock in the job application process.
- DoD 8570 = Information Assurance Workforce Improvement Program - Incorporating Change 4, 11/10/2015
- <https://iase.disa.mil/iawip/Pages/index.aspx>
- <https://iase.disa.mil/iawip/Pages/iabaseline.aspx>
- https://iase.disa.mil/iawip/Pages/summary_wf_requirements.aspx

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What do employers want? 1/2

- Someone to solve their problems.
 - You need to have a wide range of skills/knowledge to be able to solve a wide range of problems.
- Someone who will not cause problems.
 - Background check in social media sites.
 - Not being a good team player.
 - Not fitting in with the corporate culture.

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What do employers want? 2/2

- Evidence on your resume that you have actually solved problems similar to the problems that the employer currently needs solving.
- Someone who is flexible and willing to solve whatever kind of problems the employer has now or is likely to have in the future.

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National Initiative for Cybersecurity Education



- <http://csrc.nist.gov/nice/workforce.html>



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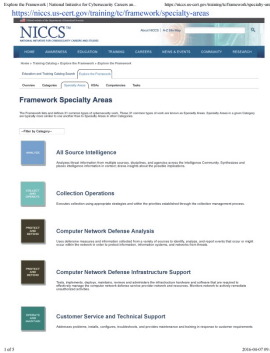
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National Initiative for Cybersecurity Careers and Studies

- <https://niccs.us-cert.gov/training/tc/framework/specialty-areas>
- 31 Common types of Cybersecurity Work
- Links lead to required skills/talents.



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ISO Responsibilities

- PKI Support, VPN Support
- Security Measures
- Audits, Inspections
- System Security Plans
- Training Requirements
- Remote Access Accounts
- Mitigation Plans, Residual Risk
- Member of IS Triumvirate
- Security Policies & SOP's
- Encryption Technology
- FISMA Compliance
- Incident Response
- ISA/MOU/DTA/DUA/BAA

- Antivirus
- Contract Reviews
- Access Management
- Boundary Protection
- National Rules of Behavior
- Certification & Accreditation
- Media Sanitization/Disposal
- Configuration Management
- Continuous Monitoring = A&A
- Configuration Planning
- Patch Vulnerabilities
- Secure Data Storage
- Security Audit Logs
- POA&M's

FIELD SECURITY SERVICE
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Things to do to get a job

- Clean up your social media presence.
- Do InfoSec/Computer activities that can be put on your resume.
- Demonstrate drive and willingness to find and solve problems.
- Take courses/training that will give you the tools to solve problems.
- Work to become great at something.

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Administrative Preparation

- Develop a resume.
- Keep a record of your personal data
 - SF85, SF86
- Get to know people well enough so they can give a reasonable reference regarding for you in the future regarding your skills, knowledge, personality, honesty, values, etc.

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Benefits of ISSA Membership

- Networking with others for career guidance/advice
- Access The ISSA Journal <https://www.issa.org/page/ISSAJournal>
- Network with local colleagues at chapter events
<https://www.issa-centralmd.org>
- Join us for the monthly International Web Conferences
<https://www.issa.org/page/CopyofWebConferenc>
- Earn CPE's to maintain your professional certification
- Join Special Interest Groups (SIG's) that focus on particular topics within the community
<https://www.issa.org/page/SIGOnDemandWebinars>
 - Security Awareness
 - Women in Security
 - Healthcare
 - Financial
- <https://www.issa.org/page/Benefits>
-

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Links

- ❖ <http://www.issa-centralmd.org/>
- ❖ <https://www.issa.org/>
- ❖ <https://www.issa.org/page/Benefits>
- ❖ <https://www.isc2.org/>
- ❖ <https://www.usajobs.gov>
- ❖ <https://www.nist.gov/itl/applied-cybersecurity/nice/resources/nice-cybersecurity-workforce-framework>
- ❖ https://niccs.us-cert.gov/workforce-development/cyber-security-workforce-framework/workroles?name_selective=Cyber+Instructor&fwid=All
- ❖ <https://www.cyberseek.org/heatmap.html>

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Contact Information

- ❖ <https://www.issa-centralmd.org/board-of-directors>
- ❖ Monthly Chapter meetings - register at <https://www.issa-centralmd.org>
- ❖ Steve Chan
- ❖ 202-649-6312 = Work - preferably between 6 AM to 8 AM
- ❖ stephan.chan@occ.treas.gov (Preferred address, include your phone #)
- ❖ v_p_membership@issa-centralmd.org

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