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#MissionBeforeMoney



2021 CISSP MENTOR PROGRAM

Class 1 – April 12, 2021

Instructor: Evan Francen, FRSecure & SecurityStudio CEO

Welcome!



CISSP® MENTOR PROGRAM – SESSION ONE

INTRODUCTION

2021 FRSecure CISSP Mentor Program

CAUTION

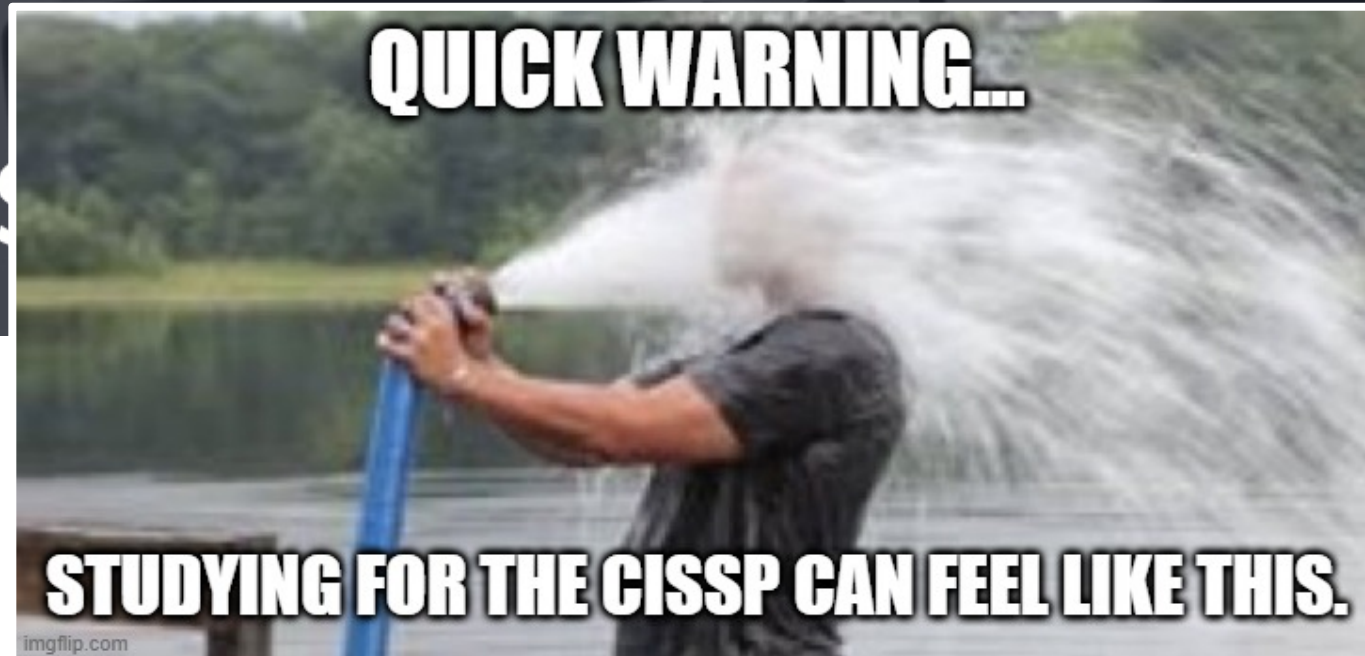


CISSP® MENTOR PROGRAM – SESSION ONE

INTRODUCTION

CIS

CAUTION





INTRODUCTION

CIS

CAUTION



EL LIKE THIS.



CISSP® MENTOR PROGRAM – SESSION ONE

INTRODUCTION

Welcome!

- What is the CISSP Mentor Program?
- History
 - 2010 – 1st Class – 6 students
 - Today – 12th Class – 5,900+ students!
- Why do we do it?
- Success stories
- Heck, it's free! What have you got to lose?

Remember when this guy
was thought to be the
worst the 2010's had to offer?



He was just a warmup



We have a severe talent shortage problem in our industry. Good news for you...



CISSP® MENTOR PROGRAM – SESSION ONE

INTRODUCTION

Welcome!

Remember when this guy
was thought to be the
worst the 2010's had to offer?



FRSecure CISSP Mentor Program Growth





CISSP® MENTOR PROGRAM – SESSION ONE

INTRODUCTION

Why do we do it?

Mission:



CISSP® MENTOR PROGRAM – SESSION ONE

INTRODUCTION

Why do we do it?

Mission: To fix the broken industry



CISSP® MENTOR PROGRAM – SESSION ONE

INTRODUCTION

Why do we do it?

Mission: To fix the broken industry



Broken: We have a shortage of “good” talent in our industry



CISSP® MENTOR PROGRAM – SESSION ONE

INTRODUCTION

Why do we do it?

Mission: To fix the broken industry



Broken: We have a shortage of “good” talent in our industry



Fix: Help people get w/quality training for FREE



CISSP® MENTOR PROGRAM – SESSION ONE

INTRODUCTION

Why do we do it?

WHY

Mission: To fix the broken industry



Broken: We have a shortage of “good” talent in our industry



Fix: Help people get w/quality training for FREE



INTRODUCTION

Why do we do it?

WHY

Mission: To fix the broken industry

Broken: We have a shortage of “good” talent in our industry

Fix: Help people get w/quality training for FREE

YOUR PURPOSE?

Improve on
the job

PASS the
exam!

Learn

Start a new
career

Further
career

Teach
others

Make
friends



INTRODUCTION

Why do we do it?

WHY

Mission: To fix the broken industry

Broken: We have a shortage of “good” talent in our industry

Fix: Help people get w/quality training for FREE

YOUR PURPOSE?

Improve on
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Start a new
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Further
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Teach
others

Make
friends

Write it down and finish
what you started.



CISSP® MENTOR PROGRAM – SESSION ONE

INTRODUCTION

Success stories

- The first class.
- The growth.
- People who want to pass the exam, do.
 - We don't specifically track this.
 - If 40% take the exam and 90% pass = 3,400+ new CISSPs!
 - Avg. cost of training = \$2,750 = \$26m+ FREE training!
- We get messages all year long.



Restored some trust in our industry. This is **FREE** and there are **NO STRINGS!**



CISSP® MENTOR PROGRAM – SESSION ONE

INTRODUCTION

Welcome – Today's Agenda

- Introduction – Getting to know us.
- Our severe talent shortage problem...
- Mentor Program Schedule & Class structure
- What is a CISSP?
- The book. **TIPS**
- Chapter 1 – Introduction (the other one).

The better you know us,
the better you'll use us.

There is space for YOU!

Organizational stuff.

AGENDA



**BACON IS
THE ANSWER**
I Don't Remember
The Question



INTRODUCTION

2020 CISSP MENTOR PROGRAM

But first a joke.

Why is it a bad idea to iron your four-leaf clover?





INTRODUCTION

2020 CISSP MENTOR PROGRAM

But first a joke.

Why is it a bad idea to iron your four-leaf clover?

You don't want to press your luck!





INTRODUCTION

2020 CISSP MENTOR PROGRAM

One more...

Why do fathers take an extra pair of socks when they go golfing?





INTRODUCTION

2020 CISSP MENTOR PROGRAM

One more...

Why do fathers take an extra pair of socks when they go golfing?



In case they get a hole in one!





INTRODUCTION

About Evan

I do a lot of security stuff.

- CEO and Co-founder of FRSecure and SecurityStudio
- Co-inventor of SecurityStudio (or S²), the platform for managing information security risk.
- Co-inventor of S²Org, S²Vendor, S²Team, and S²Me.
- Co-inventor of S²Score, a quantitative measurement of information security and vendor risk used by 4,500+ organizations.
- Co-host a couple of shows; UNSECURITY Podcast and the Security Sh!t Show.
- Tell the truth (always), simplify (everything), and serve (everyone).

“Evan’s straightforward analysis of information security risk as fractured, incomplete and disconnected is spot on.” – CISO, University of Miami

Me, on most days



I think I look better as a cartoon.





INTRODUCTION

About Evan

I do a lot of security stuff.

- Advised legal counsel in high-profile breaches including Target and Blue Cross/Blue Shield.
 - 2014/2015 - Consultant to the Special Litigation Committee of the Board of Directors of Target Corporation; derivative action related to the “Target Breach”.
 - 2015/2016 – Consultant to legal counsel and Blue Cross/Blue Shield related to remediation efforts (post-breach).
 - Served as an expert witness in multiple federal criminal cases, mostly involving alleged stolen trade secrets
- Served 100s of companies; big (Wells Fargo, Target, US Bank, UnitedHealth, etc.) and small.
- Lots of television and radio, lots of information security talks at conferences, and 750+ published articles about a variety of information security topics.

“I don’t think I’ve met a more successful guy in this industry with less bullshit.” – Roger Grimes

 @evanfrancen

Me, on most days



I think I look better as a cartoon.

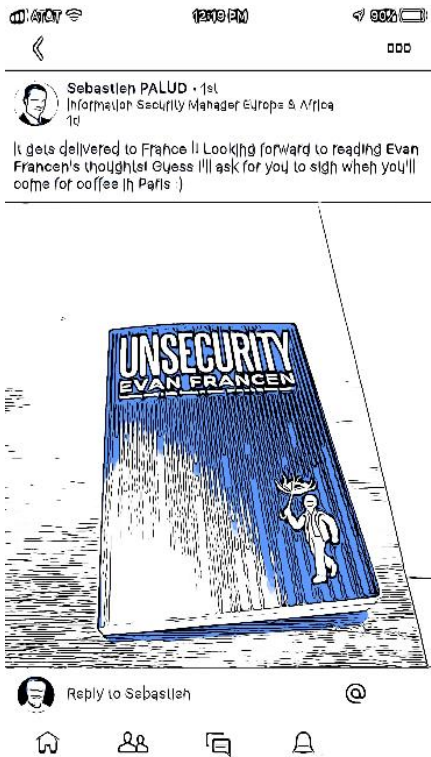




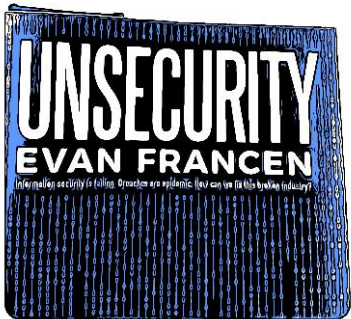
INTRODUCTION

About Evan

And then...



Rich Eckstein • 2nd Partner at EargonKOV 2h
Great surprise coming home last night and getting a book from Evan Francen. I have a good 60 pages read this morning and strongly recommend it to any one (not just the info sec professionals)! Great read and thanks Evan.

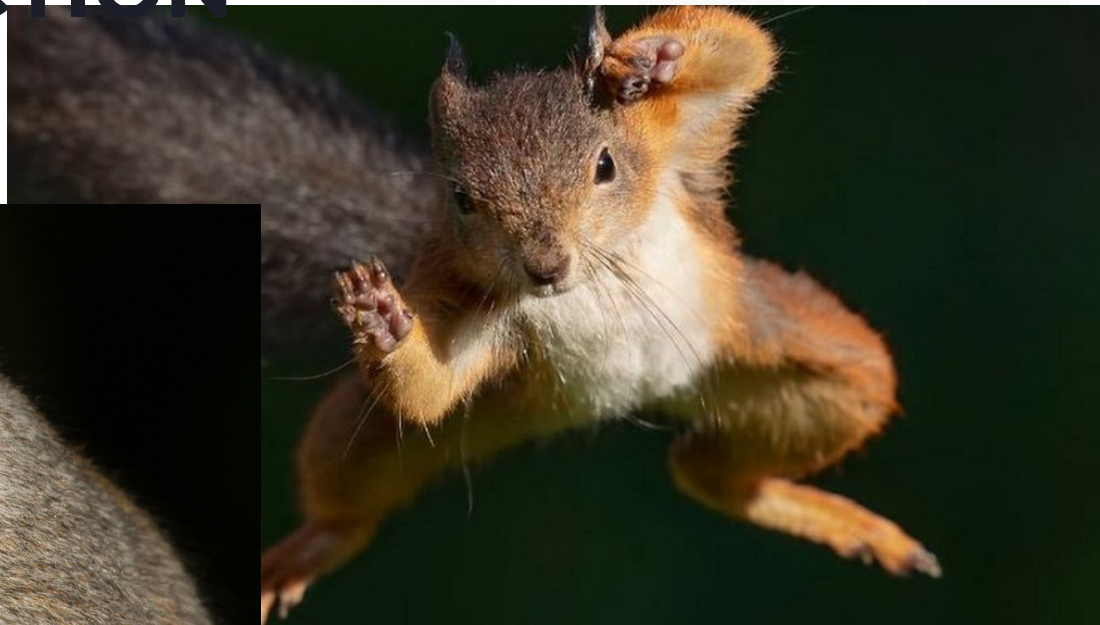


<https://www.amazon.com/Unsecurity-Information-security-failing-epidemic/dp/164343974X/>



INTRODUCTION

About Evan





INTRODUCTION

About Evan



ADD is my superpower!



INTRODUCTION

About Evan



UNSECURITY Podcast



CommunityCompany

UNSECURITY Podcast

You are here: Home / UNS

UNSECURITY Podcast

InfoSec Missionaries

Weekly information security podcast airing Monday mornings hosted by Evan Francen and Brad Nigh. In a unique focus on and Brad discuss information security as an issue that includes cyber security, physical security, as well as administrative co the author of the book UNSECURITY (publish date December, 2018). Brad is the Director of Professional Services & Innovati of the industry. Hosting things like FRSecure's Certified Information Systems Security Professional (CISSP) Mentor Program, together, the chemistry in their banter is sure to delight!

Subscribe



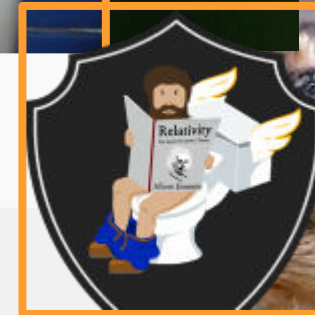
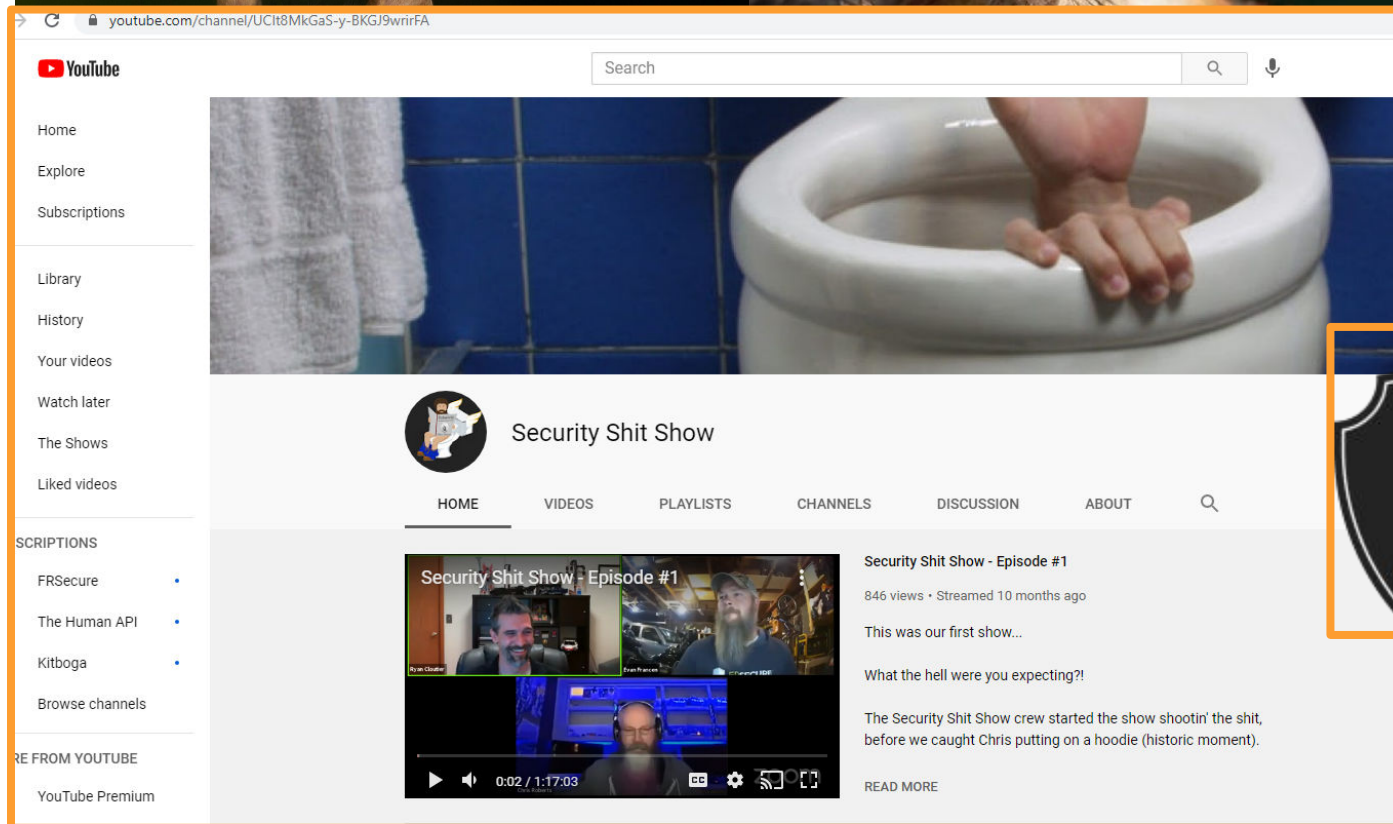




INTRODUCTION

About Evan

Security Sh!t Show





INTRODUCTION

About
The

I love people!

Except when they're on the road with me.

The best security people in the world are
people who love people.

Information security isn't as much about information or security...
as much as it is about people.



INTRODUCTION

About Brad

- 20+ years of overall IT experience, started with FRSecure in 2016
- FRSecure's Principal Security Consultant
- CISSP Mentor Program Lead
- FRSecure Workshop Series Lead
- Co-host of UNSECURITY Podcast with Evan
- CISM, CISSP, CCSFP, CSSA, MCSA: Windows Server 2012, ITIL v.3 Foundations
- ISC²® Safe and Secure Online volunteer
- Wayzata Schools COMPASS program CyberSecurity Mentor
- Passionate about information security and happy to be here!





CISSP® MENTOR PROGRAM – SESSION ONE

INTRODUCTION

About Brad

- 20+ years of overall IT experience, started with FRSecure in 2016
- FRSecure's Principal Security Consultant

A passionate information security expert with 20+ years of overall IT experience, including 10+ years of IT management and leadership experience working in 24/7 environments that required top tier technical skills, and efficient project management. In addition, I have years of experience working in highly regulated industries that are required to comply with PCI-DSS, HIPAA, HITECH, Sarbanes-Oxley, OCC, and various state regulatory requirements.

At FRSecure I lead the Consulting Services practice serving businesses of all sizes, in all industries by cooperatively solving the complex issues surrounding information security.

<https://www.spreaker.com/show/unsecurity-weekly-podcast>

You can also find it on Spotify, iTunes, Overcast, and more (iHeart Radio coming soon!). Just search "Unsecurity."

- ISC²® Safe and Secure Online volunteer
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2012, ITIL v.3



INTRODUCTION

About Brad

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Specializes in a whole bunch of stuff.

Mission-driven, 100%

The kind of guy you want to hang with!



A passionate
management
efficient pro
required to c

At FRSecure
solving the c

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INTRODUCTION

About Ryan



- SecurityStudio's Principal Security Consultant
- The “right hand and left hand”.
- Seasoned IT Security professional with over 15 years of experience
- Certified Information Systems Security Professional CISSP®
- Held a variety of IT roles during his career including multiple architect and security roles, cloud security, Dev-Ops/Sec-Ops methodology, policy, process, audit and compliance, network and application security architecture
- Performed expert-level work for several fortune 500 companies in health care, financial, and agriculture sectors
- Heavily immersed in K-12 and SLED for the last 3 years



INTRODUCTION

About Ryan



- SecurityStudio's Principal Security Consultant

• The "right hand and left hand"

Passionate Cybersecurity thought leader, driven continuous learner with a creative approach to managing security, privacy, and risk. Adept at striking the necessary balance between business needs and security/compliance requirements. Engaging public speaker who can articulate security and its importance to all demographics using relatable experiences and language.

experience

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CISSP® MENTOR PROGRAM – SESSION ONE

YOUR INSTRUCTORS

Nifty group, eh?




 @BradNigh



 @CLOUTIERSEC



 @evanfrancen

Special thank you
to the dozen (or
so) people who
made this happen
behind the scenes!

We couldn't be happier that you're here! Thank
you for letting us be part of your journey!





CISSP® MENTOR PROGRAM – SESSION ONE

INTRODUCTION

About FRSecure

Expert-level, product agnostic information security management and consulting firm.

- Established in 2008 but didn't really start until 2010.
- All mission, all the time.
- Information security is about people, and it's a lot of hard work.
- Seven core values, and ten security principles.
- **Core services include:**
 - vCISO (and related)
 - Information Security Risk Assessment & Management
 - Incident Response (the best!)
 - Technical Services
 - PCI QSA Services
 - Information Security Training & Awareness
 - Whole bunch of other stuff...





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 - Whole bunch of other stuff...

Fix the broken industry.





INTRODUCTION

About FRSecure

Our Core Values

- We tell the truth.
- We are collaborative.
- We are supportive and driven to serve.
- We do whatever it takes.
- We are committed to constant improvement.
- We have balance. We work hard and play hard.
- We all buy in to who we are, what we do, and where we're going.

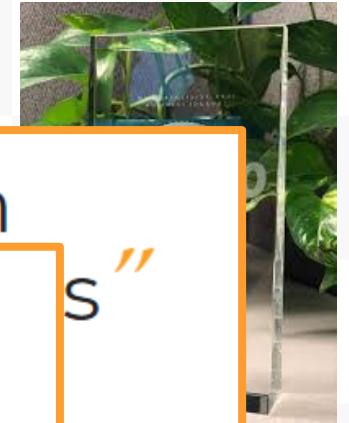
FRSecure “Ten Commandments”

1. A business is in business to make money.
2. Information security is a business issue.
3. Information security is fun.
4. People are the biggest risk.
5. “Compliant” and “secure” are different.
6. There is no common sense in information security.
7. “Secure” is relative.
8. Information security should drive business.
9. Information security is not “one size fits all.”
10. There is no “easy button.”



INTRODUCTION

About FRSecure



Our Core Values

- We tell t
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- We all b

FRSecure Labs

Tech Services Resources and Research



The Hackle Box March 2021: Monthly Cyber Threat Intel Series



The Hackle Box February 2021: Cyber Threat Intel Webinar Series



The Hackle Box Recap: December 2020 Cyber Threat Intel

FRSecure “Ten

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CISSP® MENTOR PROGRAM – SESSION ONE

INTRODUCTION

About FRSecure

Our Core Values

- We tell the truth
- We are honest
- We are respectful
- We do what we say
- We are committed
- We have integrity
- We all belong

FRSecure
Tech Services

Ma

The Hack
Series

Evan Francen
CEO & Founder

in



John Harmon
President

in



Renay Rutter
COO

in



Vanae Pearson
CFO

in



Oscar Minks
Director of Technical Solutions and
Services



Drew Boeke
Director of Sales



Brad Nigh
Principal Security Consultant



Peter Vinge
Director of Operations and
Organizational Development

"Ten

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CISSP® MENTOR PROGRAM – SESSION ONE

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INTRODUCTION

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Lots of awards: <https://frsecure.com/awards/>



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INTRODUCTION

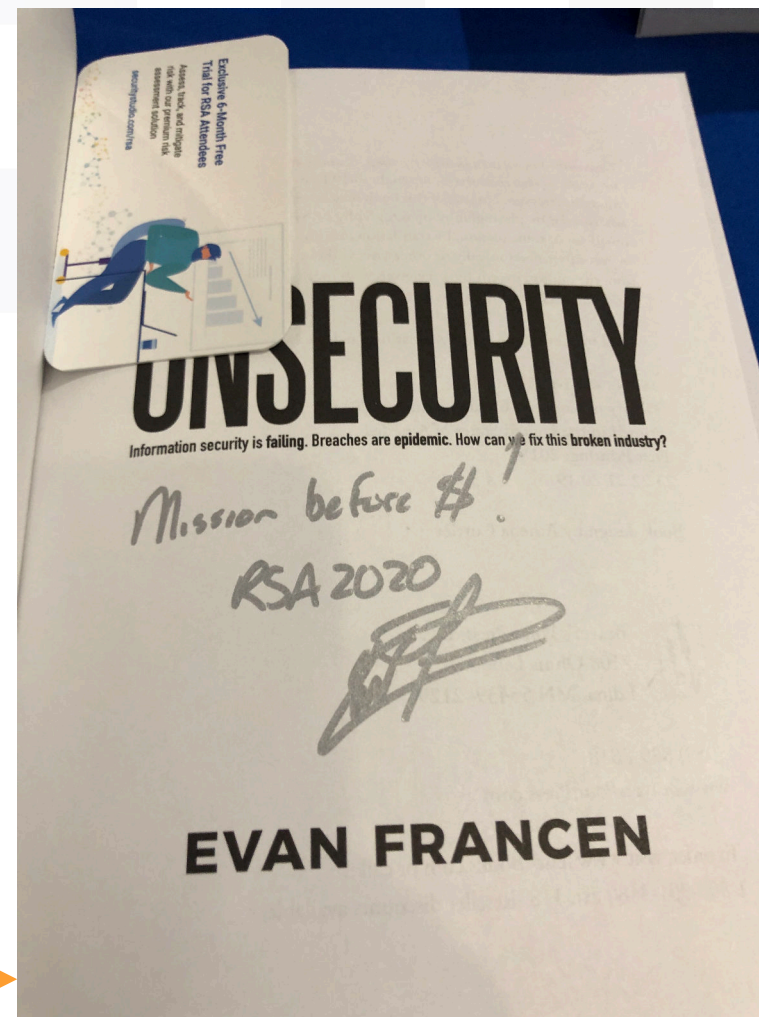
About FRSecure

What's the #MissionBeforeMoney thing?



Much (not all) of our industry.

Did you notice this?



US





CISSP® MENTOR PROGRAM – SESSION ONE

INTRODUCTION

About SecurityStudio



Dedicated to Simplifying Information Security for the Masses

- SecurityStudio (or **S²**) is a Software as a Service (or SaaS) company dedicated to making safety, privacy, and cybersecurity simple and attainable for everyone.
- The **S²** platform is built around a simple language called the **S²Score** and we make fundamental tools available to the market including:
- **S²Org** - the organizational information security risk management tool used by organizations of all sizes, but primarily developed for small to medium-sized businesses.
- **S²Vendor** - the simple vendor/third-party information security risk management tool, integrated with S2Org for optimal efficiency.
- **S²School** - the education-specific version of S2Org, used by K12 and higher education institutions everywhere.
- **S²Team** - the information security portal leveraged by organizations to help their employees at home (and ultimately help themselves too).
- **S²Me** - the **FREE** safety and cybersecurity risk management tool built for everyday people to use at home for better personal and family protection.

Oh yeah, these guys too!

“Complexity is the enemy of security” - Bruce Schneier



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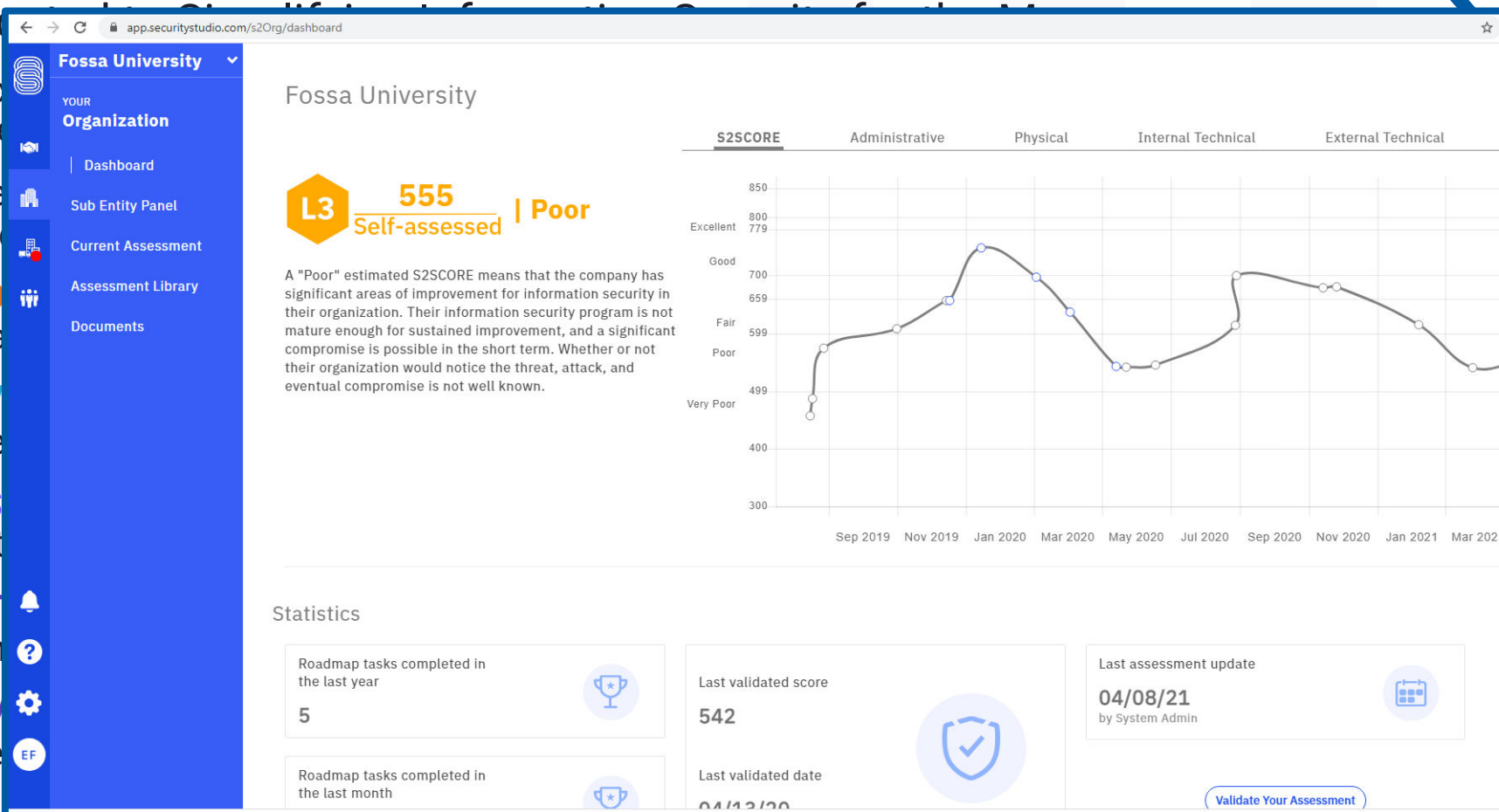
INTRODUCTION

About SecurityStudio



Dedicated to helping you understand the S2O and S2V of your organization

- Security
- The
- S²O
- S²V
- S²S
- S²T
- S²M



these guys too!

Security is the enemy of security" - Bruce Schneier



CISSP® MENTOR PROGRAM – SESSION ONE

INTRODUCTION

About SecurityStudio



Fossa University

- YOUR Organization
- Dashboard
- Sub Entity Panel
- Current Assessment
- Assessment Library
- Documents

Current Assessment (L3 Assessment)

Score last updated 04/06/2021

ASSESSMENT

DASHBOARD

ROADMAP

Reset Level

555

Self-assessed | Poor

A "Poor" estimated S2SCORE means that the company has significant areas of improvement for information security in their organization. Their information security program is not mature enough for sustained improvement, and a significant compromise is possible in the short term. Whether or not their organization would notice the threat, attack, and eventual compromise is not well known.

Control Category	Score
Administrative Controls	561.84
Physical Controls	737.04
Internal Technical Controls	631.92
External Technical Controls	362.22

The system is not automatically updating the reports. [Click here](#) to get the most updated version of the reports.

L3: General Reports

Report Name	Description	Last Updated	Download
Executive Summary Report	A high level report for executive leadership that lays out where the organization's information security program excels and where it is deficient.	Mar 11, 2021	Download
Management Summary Report	This report provides a more in-depth look into each phases of the assessment, highlighting strengths and weaknesses that affect the overall S2SCORE.	Mar 11, 2021	Download

the guys too!

the enemy of
the Schneier



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INTRODUCTION

About SecurityStudio



app.securitystudio.com/s2org/assessment#

Fossa University

YOUR Organization

Dashboard

Sub Ent

Current

Assess

Docume

Current Assessment (L3 Assessment)

Score last updated 04/06/2021

ASSESSMENT DASHBOARD ROADMAP

Stay until the end, you WILL have an assignment/homework!

The system is not automatically updating the reports. [Click here](#) to get the latest reports.

L3: General Reports

Executive Summary Report
A high level report for executive leadership that lays out where the organization is and where it needs to be.

Management Summary Report
This report provides a more in-depth look into each phases of the assessment, highlighting strengths and weaknesses that affect the overall S2SCORE.

Mar 11, 2021

Download



the enemy of
the Schneier



INTRODUCTION



About us.





CISSP® MENTOR PROGRAM – SESSION ONE

OUR SEVERE TALENT SHORTAGE PROBLEM...

- Chapter 10 – UNSECURITY
- No shortage of stories about our impending doom.
- Another take (from me) - No Easy Button Solution To Cybersecurity's Skills Shortage (<https://www.cybersecurityintelligence.com/blog/no-easy-button-solution-to-cybersecuritys-skills-shortage-4150.html>)
- Some people claim that there is no shortage, or that it's overhyped.
- The truth is probably somewhere in the middle, but there is plenty of opportunity!

ANALYSIS

Research suggests cybersecurity skills shortage is getting worse

New data from reveals growing skills gaps that represent an existential threat. What should organizations do?

EDITORS' PICK | Sep 22, 2020, 10:00am EDT | 5,050 views

As The End Of 2020 Approaches, The Cybersecurity Talent Drought Gets Worse



Emil Sayegh Contributor

Cloud

President and CEO of Ntirety, a global managed cloud services provider. I cover all things cloud computing, IoT, and innovation.

ANALYSIS

Cybersecurity skills shortage creating recruitment chaos

Because of the global cybersecurity skills shortage, nearly half of all cybersecurity professionals are solicited

NEWS

September 20, 2016 @ 12:20 PM

The Cybersecurity Talent Shortage: Zero Unemployment and No Unicorns?

By Douglas Bonderud

NEWS

Cybersecurity labor crunch to hit 3.5 million unfilled jobs by 2021

The cyber crime epidemic is expected to triple the number of open positions over the next five years

Cybersecurity Suffers from Talent Shortage

Could there be a better time to pursue a career in cybersecurity? Probably not.

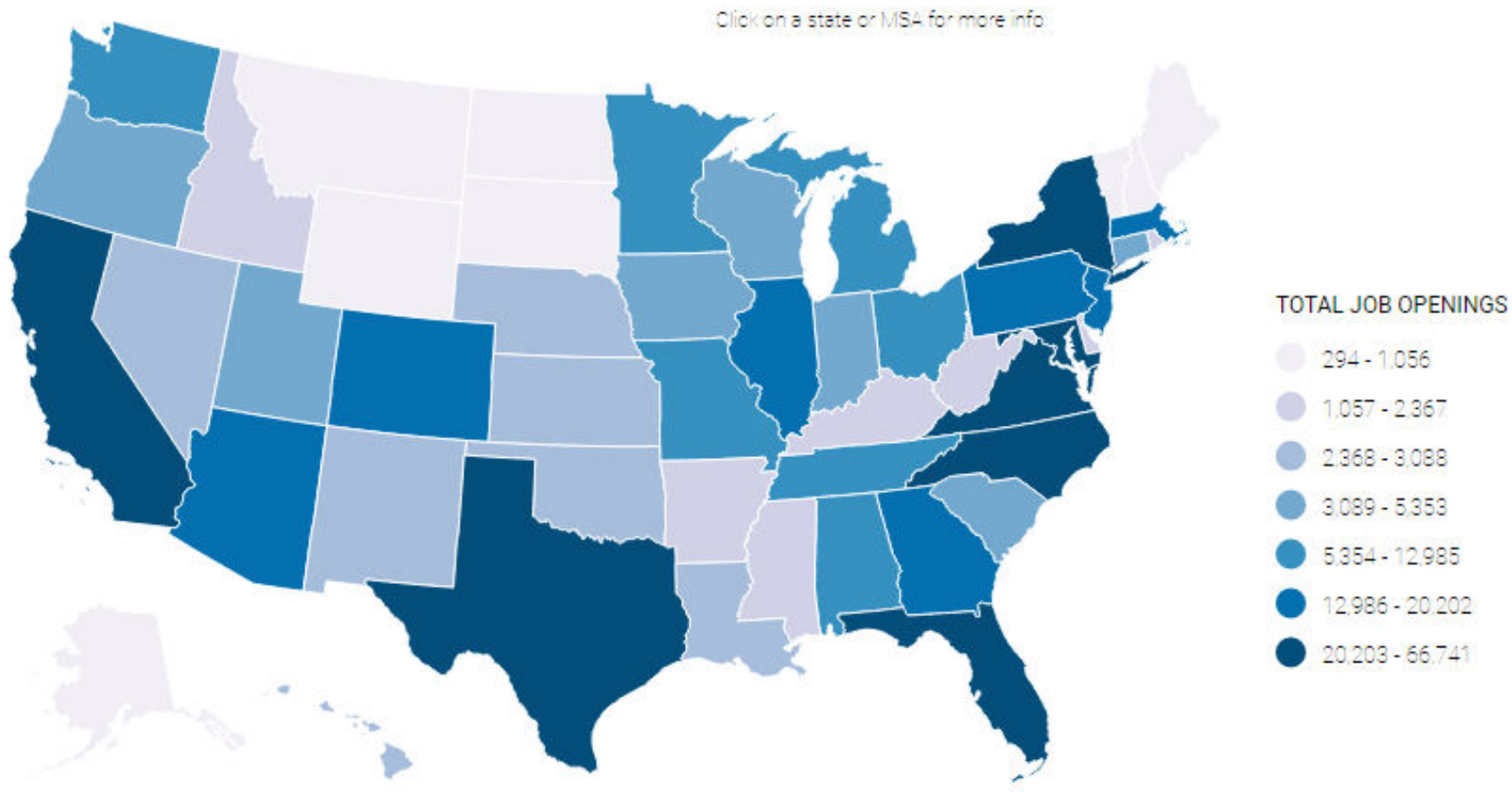
John P. Mello Jr.



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OUR SEVERE TALENT SHORTAGE PROBLEM...

Some truth. Total Job Openings.



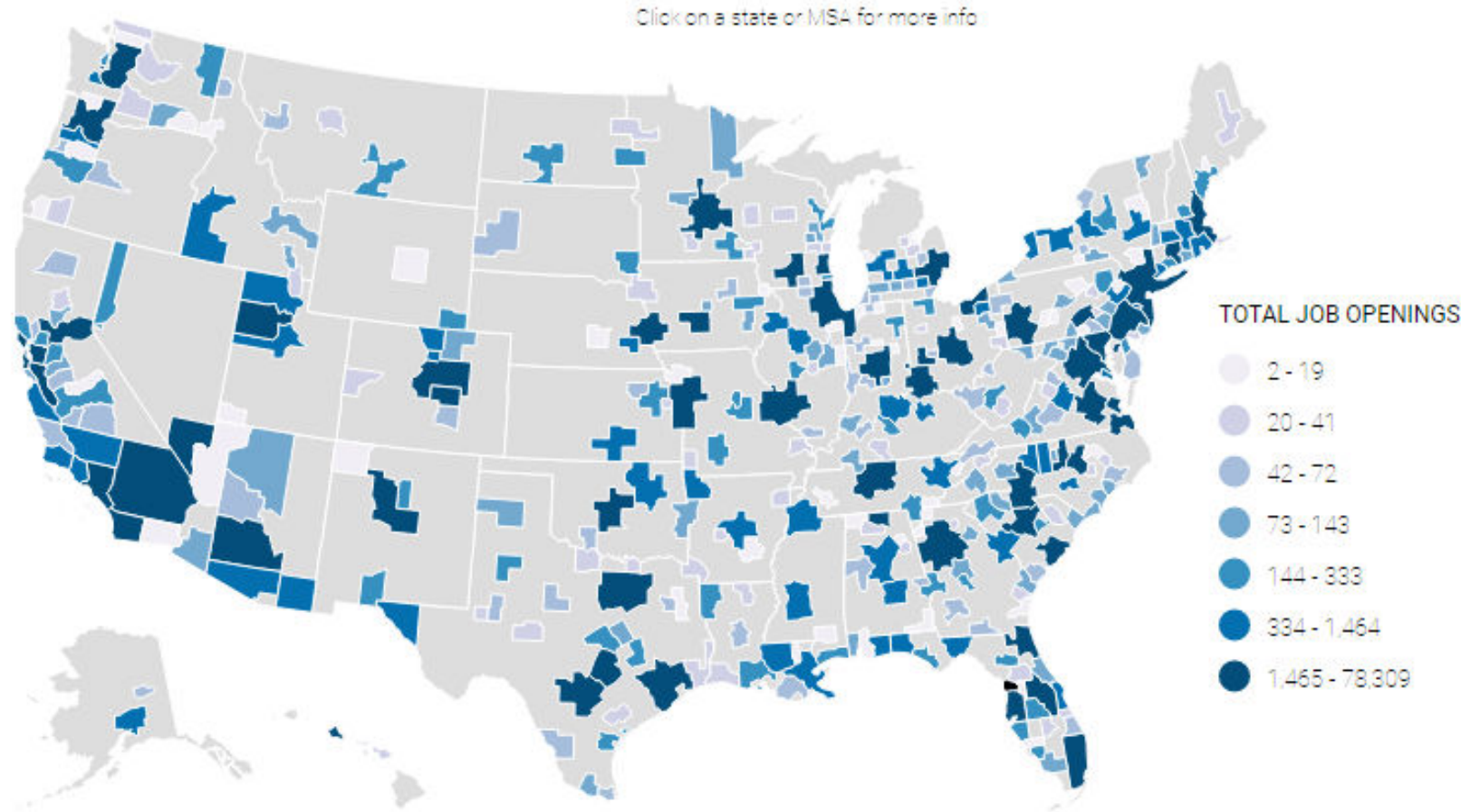
Source: CyberSeek – www.cyberseek.org



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OUR SEVERE TALENT SHORTAGE PROBLEM...

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Source: CyberSeek – www.cyberseek.org



CISSP® MENTOR PROGRAM – SESSION ONE

OUR SEVERE TALENT SHORTAGE PROBLEM...

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This.

In context

This.

Source: CyberSeek – www.cyberseek.org

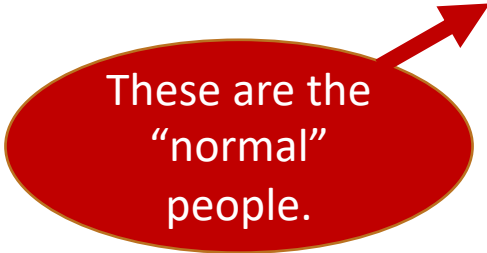
Us
941,904



Entire Population of the United States
330.2 million



These are the
“normal”
people.





CISSP® MENTOR PROGRAM – SESSION ONE

OUR SEVERE TALENT SHORTAGE PROBLEM...

Some truth.

- Report from Cybersecurity Ventures estimates there will be 3.5 million unfilled cybersecurity jobs by 2021, up from 1 million openings in 2019.
- ISACA predicts there will be a global shortage of two million cyber security professionals by 2019. (CAME TRUE)
- 70% of organizations report being impacted by the worker shortage
- ‘We are outnumbered’ – cybersecurity pros face a huge staffing shortage as attacks surge during the pandemic
- American salary for cybersecurity professionals is \$90,000 a year and those who hold security certifications can make more.
- Cyber crime is expected to cost the world \$6 trillion by 2021.

“Lack of Cybersecurity Talent is a Systemic Issue” - Dave Barton,
Security Magazine

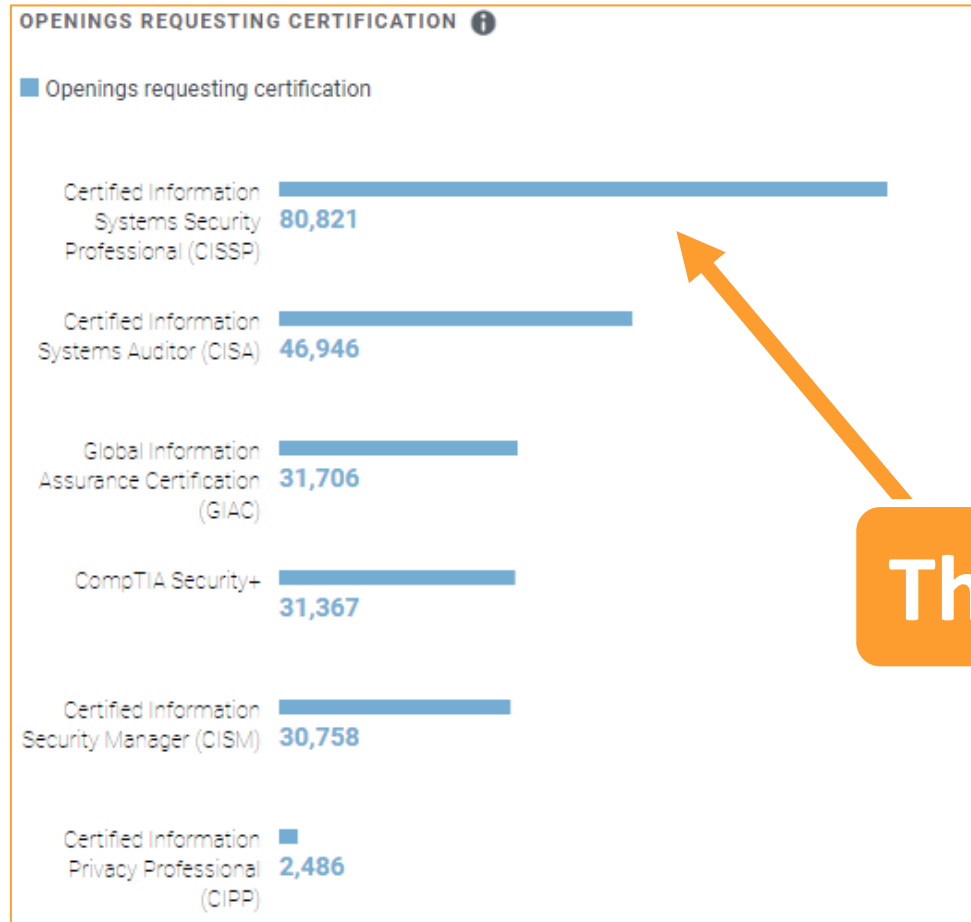


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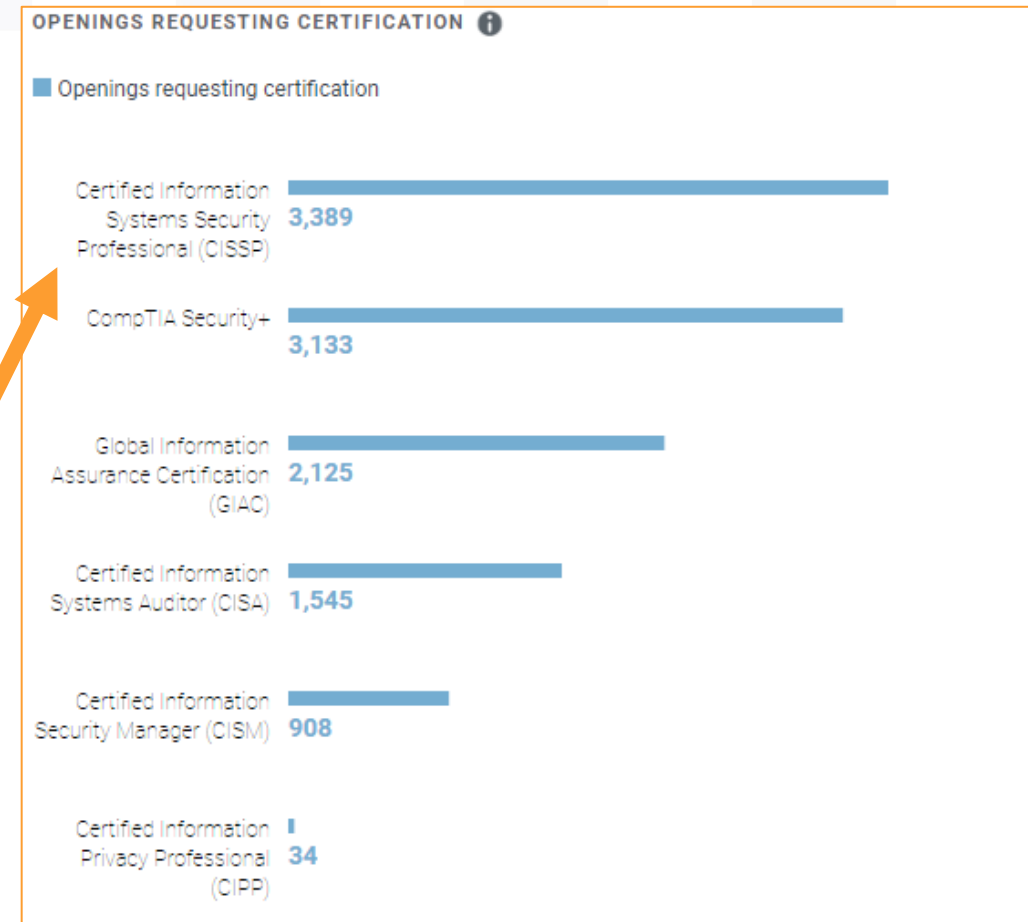
OUR SEVERE TALENT SHORTAGE PROBLEM...

Some truth.

Private Sector



Public Sector



This.



CISSP® MENTOR PROGRAM – SESSION ONE

OUR SEVERE TALENT SHORTAGE PROBLEM...

“Good” Security Talent

- What makes a “good” information security professional?
- Backlash from the Equifax Breach, noted that Susan Mauldin (former Chief Security Officer) had a music degree; therefore, she must have been unqualified.

“a problem emerges: according to LinkedIn, Mauldin’s stated educational background has no security or technology credentials and consists of... a bachelor’s degree in music composition (magna cum laude) and a Master of Fine Arts degree in music composition (summa cum laude), both from the University of Georgia. Once again, this is the person who was in charge of keeping your personal and financial data safe — and whose failure to do that have put 143 million at risk from identity theft and fraud.”

(Source: <https://www.zerohedge.com/news/2017-09-15/another-equifax-coverup-did-company-scrub-its-chief-security-officer-was-music-major>)



CISSP® MENTOR PROGRAM – SESSION ONE

OUR SEVERE TALENT SHORTAGE PROBLEM...

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- What makes a “good” information security professional?
- Backlash from the Equifax Breach, noted that Susan Mauldin (former Chief Security Officer) had a music degree; therefore, she must have been unqualified.

When Congress hauls in Equifax CEO Richard Smith to grill him, it can start by asking why he put someone with degrees in music in charge of the company’s data security.

And then they might also ask him if anyone at the company has been involved in efforts to cover up Susan Mauldin’s lack of educational qualifications since the data breach became public.

It would be fascinating to hear Smith try to explain both of those extraordinary items.

(Source: <https://www.marketwatch.com/story/equifax-ceo-hired-a-music-major-as-the-companys-chief-security-officer-2017-09-15>)



CISSP® MENTOR PROGRAM – SESSION ONE

OUR SEVERE TALENT SHORTAGE PROBLEM...

“Good” Security Talent

- What makes a “good” information security professional?
- Some people believe that you cannot be “good” without a technical degree, others believe that you cannot be “good” without certifications like a CISSP, CISM, etc.
- There are thousands of awesome security practitioners who have no information security degree whatsoever.

Defining “Good”

- At FRSecure we “grow talent”.
- There are three things that create talent:
 - Intangibles – the things you can’t teach.
 - Education – the “book smarts”. Education can come in a variety of forms; degree programs, books, in-person instruction, mentorship, certification preparation, etc.
 - Experience – the “street smarts”. The best way to gain experience is by doing.

This is #1, non-negotiable.

The three ingredients are not mutually exclusive and there are all sorts of ways.



CISSP® MENTOR PROGRAM – SESSION ONE

OUR SEVERE TALENT SHORTAGE PROBLEM...

Supply and Demand - acquisition, retention, and our culture

- **Supply** – we don't have enough information security people.
- **Acquisition** – we can't find enough good information security people for ourselves.
- **Retention** – we can't keep good information security people for ourselves (and in some cases, in our industry).
- **Culture** – we have a “bro culture” problem that isn't helping.
 - Intimidating
 - Egotistical
 - Lacking **minority** perspective.

Thankfully, this has gotten better the past few years, but we're NOT DONE.



CISSP® MENTOR PROGRAM – SESSION ONE

OUR SEVERE TALENT SHORTAGE PROBLEM...

Supply and Demand - acquisition, retention, and our culture

- Two sources; people willing to change careers, and younger people entering the workforce.
- **Career Changers** - If you were interested in getting into our field, where would you start?
 - A bachelor's degree in cyber security will cost somewhere between \$20,000 - \$60,000, or more. This might get you an entry-level job. A master's degree will cost much more. (Source: <https://www.onlineu.org/most-affordable-colleges/cyber-security-degrees>)
 - Certification? Training to pass the CISSP® exam can range from \$2,000 - \$5,000, or more, and the exam itself will set you back another \$699.
 - Cost is a barrier to entry. Most people don't have this amount of money lying around.
- **Younger People** – Not enough education options (getting better, but not fast enough).



CISSP® MENTOR PROGRAM – SESSION ONE

OUR SEVERE TALENT SHORTAGE PROBLEM...

Supply and Demand - acquisition, retention, and our culture

- **Early Education** – schools are starting programs, and they're working. Many examples.
- **Free Education**
 - FRSecure's Mentor Program (<https://frsecure.com/cissp-mentor-program/>)
 - SANS Cyber Aces Online (<http://www.cyberaces.org/courses/>)
 - Cybrary (<https://www.cybrary.it/catalog/>)
 - Cyber Degrees (<https://www.cyberdegrees.org/>)
 - Many more showed up during the pandemic...
- **Mentorship** – no single dominant program; this requires more of us giving back.
- **Hire Intangibles** – and train/educate for the rest. Can be a good acquisition strategy too.
- **Internships** – becoming more popular, but we need more.



CISSP® MENTOR PROGRAM – SESSION ONE

OUR SEVERE TALENT SHORTAGE PROBLEM...

Supply and Demand - acquisition, retention, and our culture

- Our industry culture is not always conducive to attracting and retaining talent.
- Some of the results of our culture are gender inequity and minority inequity.
 - Women make up 49.56% of the world's population, but only make up 24% (up from 11%) of the information security workforce.
 - 26% of our workforce is non-Caucasian (or "white") male.
 - People of color make up less than 20% of the information security analyst jobs in the U.S.
 - 8% of VC investors are women and fewer than 1% are Black

REMEMBER: Difficult problems are best solved using diverse perspectives.

"In a survey of 580 scheduled attendees of the Black Hat 2017 conference to be held in Las Vegas, Black Hat found that 71% of respondents felt their companies lacked sufficient staff to defend itself against current cyberthreats. And, although less than half of respondents (45%) were "concerned" about the shortage of women and minorities in the information security"



CISSP® MENTOR PROGRAM – SESSION ONE

OUR SEVERE TALENT SHORTAGE PROBLEM...

Supply and Demand - acquisition, retention, and our culture

- Since our industry is so male dominated, there's a "bro culture" that exists.
 - *"It's a very male-dominated culture." "It can be a little more crass, a little bit more rough and maybe some ... females don't like that, and it is off-putting."* – Ellison Anne Williams, Ph.D., founder and chief executive of Enveil, a Fulton, Md., data security company.
- It's not only the people in our industry that contribute to the problem. Customers, clients, and other normal people also assume that information security is a male sport.
 - *"They have clients who won't speak directly to them, It's the assumption that the woman is not the lead on the project. They just default to speaking to the men."* - Leah Figueroa, lead data engineer at Gravwell, a data analytics company out of Coeur D'Alene, Idaho (Source: <http://www.govtech.com/workforce/Why-Are-So-Few-Women-in-Cybersecurity.html>)
- This culture didn't start in our industry and it's not exclusive to our industry either.



CISSP® MENTOR PROGRAM – SESSION ONE

OUR SEVERE TALENT SHORTAGE PROBLEM...

Supply and Demand - acquisition, retention, and our culture

- Promote and participate in more diversity initiatives and programs.
- Studies prove the more diverse work groups produce more creative a better results.
- A partial list of resources for women:
 - **SANS CyberTalent Immersion Academy for Women** - <https://www.sans.org/cybertalent/immersion-academy>
 - **Computer Science for Cyber Security (CS4CS) Summer Program for High School Women** - <http://engineering.nyu.edu/k12stem/cs4cs/>
 - **Women's Society of Cyberjutsu (WSC)** - <http://womenscyberjutsu.org/>
 - **Women in Cyber Security (WiCyS)** - <https://www.wicys.net/>



CISSP® MENTOR PROGRAM – SESSION ONE

OUR SEVERE TALENT SHORTAGE PROBLEM...

Supply and Demand - acquisition, retention, and our culture

- Promote and participate in more diversity initiatives and programs.
- Studies prove the more diverse work groups produce more creative a better results.
- A partial list of resources for other underserved groups:
 - **Blacks in Cybersecurity** - <https://www.blacksincyberconf.com/>
 - **Black Cybersecurity Association** - <https://blackcybersecurityassociation.org/>
 - **International Consortium of Minority Cybersecurity Professionals** - <https://www.icmcp.org/>
 - **Others? Start one!**



CISSP® MENTOR PROGRAM – SESSION ONE

INTRODUCTION

Our severe talent shortage problem...

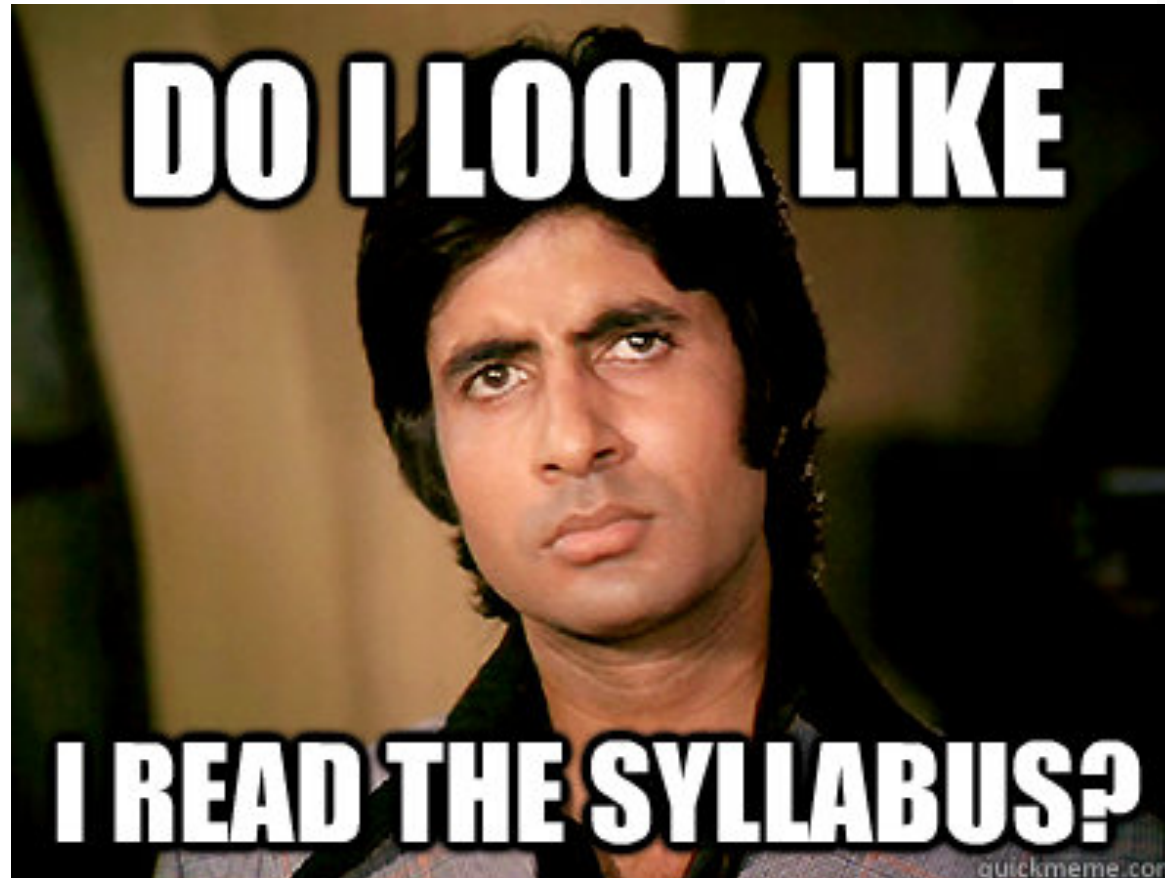
- **One more thing.**
- Get this (if you want).
- It's free (of course!).



CISSP® MENTOR PROGRAM – SESSION ONE

MENTOR PROGRAM SCHEDULE & CLASS STRUCTURE

Syllabus (not really), but close.





CISSP® MENTOR PROGRAM – SESSION ONE

MENTOR PROGRAM SCHEDULE & CLASS STRUCTURE

Class schedule

2021 FRSecure CISSP Mentor Program Class Schedule

Date	Instructor	Class Content
12-Apr	Evan Francen	Introduction
14-Apr	Brad Nigh	Domain 1: Security and Risk Management
19-Apr	Brad Nigh	Domains 2 & 3: Asset Security & Security Engineering
21-Apr	Ryan Cloutier	Domain 3: Security Engineering
26-Apr	BREAK - CATCH UP	
28-Apr	Brad Nigh	Domain 3: Security Engineering
3-May	Evan Francen	Domain 4: Communication & Network Security
5-May	Evan Francen	Domain 4: Communication & Network Security
10-May	Evan Francen	Domain 5: Identity & Access Management
12-May	BREAK - CATCH UP	
17-May	Ryan Cloutier	Domain 6: Security Assessment & Testing
19-May	Brad Nigh	Domain 7: Security Operations
24-May	Ryan Cloutier	Domain 7 & 8: Security Operations & Software Development Security
26-May	Evan Francen	Review & Exam Prep
31-May	BREAK - CATCH UP	
2-Jun	Ryan Cloutier	Final Exam Prep

This is us!

NOTE

All classes start live streaming at 6:00 CDT.

NOTE: Links to the class live streams are emailed the day of class. If you do not receive the email from FRSecure, class links will also be posted in the FRSecure 2021 CISSP Mentor Program Study Group

Online, FRSecure homepage → Events → 2020 CISSP Mentor Program



CISSP® MENTOR PROGRAM – SESSION ONE

MENTOR PROGRAM SCHEDULE & CLASS STRUCTURE

Class schedule

- There is a boatload of information to memorize for the exam, and you'll appreciate the breaks; we've built in three of them (4/26, 5/12, and 5/31).
- Evan, Brad, and/or Ryan will lead classes, switching things up to keep things fresh.
- We're easing into things this first week; only this introduction and one domain (Domain 1: Security and Risk Management).

No class on April 26th, May 12th, or May 31st.

Use this time to be healthy and self-study.

There are times when the material gets REALLY dry.



CISSP® MENTOR PROGRAM – SESSION ONE

MENTOR PROGRAM SCHEDULE & CLASS STRUCTURE

Class schedule

- Every class is structured similarly, starting with a brief recap of the previous content/session, then:
 - Questions.
 - Quiz.
 - Current Events.
 - Lecture.
 - Homework (you'll appreciate the breaks...)

FRSecure 2021 CISSP Mentor Program Study Group

- This is yours. Please use it, and DON'T abuse it.
- We will be in and out of the study group to help when we can.

We will be removing the moderation holds tonight.

Report any/all abuse to
cisspmentor@frsecure.com



CISSP® MENTOR PROGRAM – SESSION ONE

MENTOR PROGRAM SCHEDULE & CLASS STRUCTURE

The screenshot shows the Groups.io interface for the 'FRSecure 2021 CISSP Mentor Program Study Group'. The left sidebar contains navigation links: Home (Owner), Subscription, Admin, Messages, Hashtags, New Topic, New Poll, Chats, Directory, Calendar, Photos, Files, Databases, and Wiki. The main content area features the FRSecure logo and a banner for the '2021 FRSecure CISSP Mentor Program'. Below the banner, the group name and email address are displayed. A 'Welcome!' message follows, stating that the group is excited for the year's class and aims to build a supportive community. It includes a respectful behavior guideline and a note that the group will be updated by moderators. The message is signed '- FRSecure'.

groups.io/g/FRSecure2021CISSPMentorProgram

Groups.io Your Groups Find or Create a Group

Home Owner

Subscription

Admin

Messages

Hashtags

New Topic

New Poll

Chats

Directory

Calendar

Photos

Files

Databases

Wiki

FRSECURE

2021 FRSecure CISSP Mentor Program

FRSecure 2021 CISSP Mentor Program Study Group FRSecure2021CISSPMentorProgram@groups.io

Welcome!

We're very excited for this year's class. Last year we had more than 2,000 students, and this year we're going to top that number! The CISSP Mentor Program is fundamental to the industry".

This is the place where you can ask questions, share answers, provide study tips, and whatever else you think could help others in the group be more successful in our program.

We are here to encourage each other and build a valuable community for everyone. Nobody is excluded from participation.

Please be respectful at all times, and consider who might read your messages.

Disrespectful behavior of any kind is prohibited and will get you removed from the group.

This group will be updated continually by the moderators, so come back often to see what's changed!

We hope you enjoy and thank you for letting us play a part in your journey!

- FRSecure

removing the
holds tonight.

/all abuse to
@frsecure.com



CISSP® MENTOR PROGRAM – SESSION ONE

MENTOR PROGRAM SCHEDULE & CLASS STRUCTURE

Class schedule

- We are here to help!
- If you have any questions, at any time, please send them to cisspmentor@frsecure.com.
- Please do not email any of us directly (mostly because we're slow).
- Content will be made available to all students, including (these) slides and handouts (if there are any).
- Video recordings are available immediately after class on the FRSecure YouTube channel.



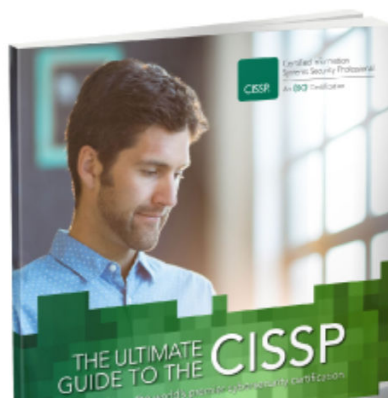
CISSP® MENTOR PROGRAM – SESSION ONE

WHAT IS A CISSP?

The Certified Information Systems Security Professional (or “CISSP”)

Get your Ultimate Guide to the CISSP @

<https://www.isc2.org/Certifications/Ultimate-Guides/CISSP?>



Even the brightest minds benefit from guidance on the journey to success.

The Ultimate Guide to the CISSP covers everything to know about the world's premier cybersecurity certification. See how the CISSP – and (ISC)² – can help you discover your certification path, create your plan and thrive throughout your career.

Get Your Guide



CISSP® MENTOR PROGRAM – SESSION ONE

WHAT IS A CISSP?

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You prove every day that you have what it takes to secure critical assets. But our profession is always changing, and even the brightest minds can benefit from having a guide on the journey to success. (ISC)² is here to help you discover the right path, create your plan and thrive throughout your career.

The Ultimate Guide to the CISSP covers everything to know about the world's premier cybersecurity certification. See how the CISSP – and (ISC)² – can distinguish you as a globally respected security leader.

INSIDE...

- » Is the CISSP Right for Me?
- » CISSPs from Around the Globe
- » Fast Facts About CISSP
- » Benefits of Being CISSP-Certified
- » Benefits of (ISC)² Membership
- » CISSP Exam Overview
- » Official CISSP Training
- » Pathway to CISSP Certification
- » Free CPE Opportunities



CISSP® MENTOR PROGRAM – SESSION ONE

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Experience

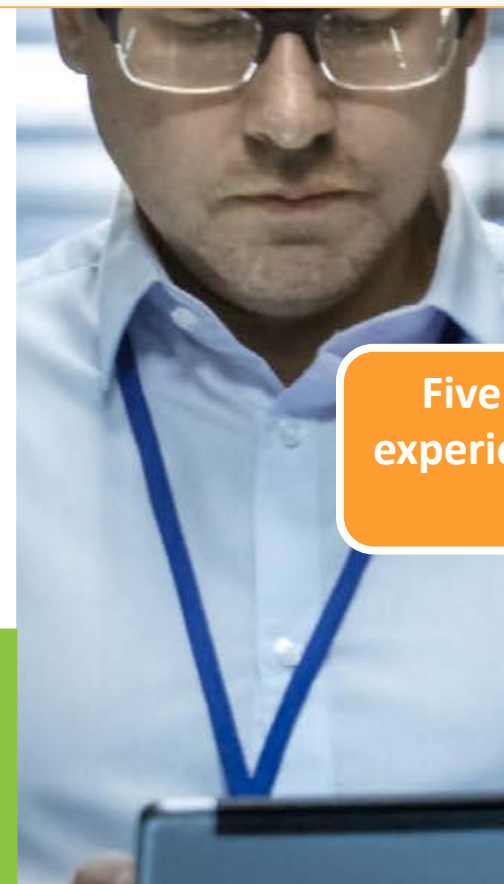
To qualify for the CISSP, candidates must pass the exam and have at least five years of cumulative, paid work experience in two or more of the eight domains of the (ISC)² CISSP Common Body of Knowledge (CBK[®]).

A candidate who doesn't yet have the required experience to become a CISSP may become an [Associate of \(ISC\)²](#) after successfully passing the CISSP exam. The Associate of (ISC)² will then have six years to earn the experience needed for CISSP certification.

Discover Your Path



[See “Pathway to CISSP Certification” for more information.](#)



**Five years (cumulative)
experience in two (or more)
domains.**



CISSP® MENTOR PROGRAM – SESSION ONE

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Fast Facts About CISSP



Introduced in 1994



DoD Approved

Most Required Security
Certification on LinkedIn



Exam available
in 8 languages at
882 locations in
114 countries



First information security
credential to meet the
strict conditions of ISO/IEC
Standard 17024



CISSPs work in more than
160 countries globally



93% of CISSPs
are lifers

Average CISSP
Salary: US \$131,030



More than 129,000
professionals currently hold
the CISSP certification

Computerized Adaptive
Testing (CAT) introduced
December 18, 2017





CISSP® MENTOR PROGRAM – SESSION ONE

WHAT IS A CISSP?

The Certified Information Systems Security Professional (or “CISSP”)

Get your Ultimate Guide to the CISSP @

<https://www.isc2.org/Certifications/Ultime-Guides/CISSP?>

Benefits of Being CISSP-Certified

Career advancement
Raise visibility and credibility,
improve job security and
create new opportunities.



Versatile skills
Vendor-neutral so skills
can be applied to
different technologies and
methodologies.

Respect
Differentiate yourself to
employers, clients and peers.



Solid foundation
Be better prepared to stem
cyber attacks and inspire
a safe and secure cyber
world.

Community of professionals
Gain access to (and respect from)
a global community of like-
minded cybersecurity leaders.



Higher salaries
On average, (ISC)² members
report earning 35% more
than non-members.

Expanded knowledge
Reach a deeper, better and
broader understanding of the
common body of knowledge



Benefits of (ISC)² Membership

Once you earn your CISSP, you become an (ISC)² member and part of a professional community that never stops learning and growing. You also gain access to a full suite of benefits and resources for continuing education and development:

- » Free subscription to InfoSecurity Professional Magazine
- » Member pricing for (ISC)² events
- » 50% off official (ISC)² textbooks
- » Deep discounts on industry conferences
- » Expert-led webinars on the latest security issues
- » The ability to join or start a local (ISC)² Chapter
- » Immersive online professional development courses
- » Volunteer opportunities
- » Safe and Secure Online program
- » Professional recognition through (ISC)² Awards Programs
- » Digital badges to promote expertise
- » (ISC)² Member Perks





CISSP® MENTOR PROGRAM – SESSION ONE

WHAT IS A CISSP?

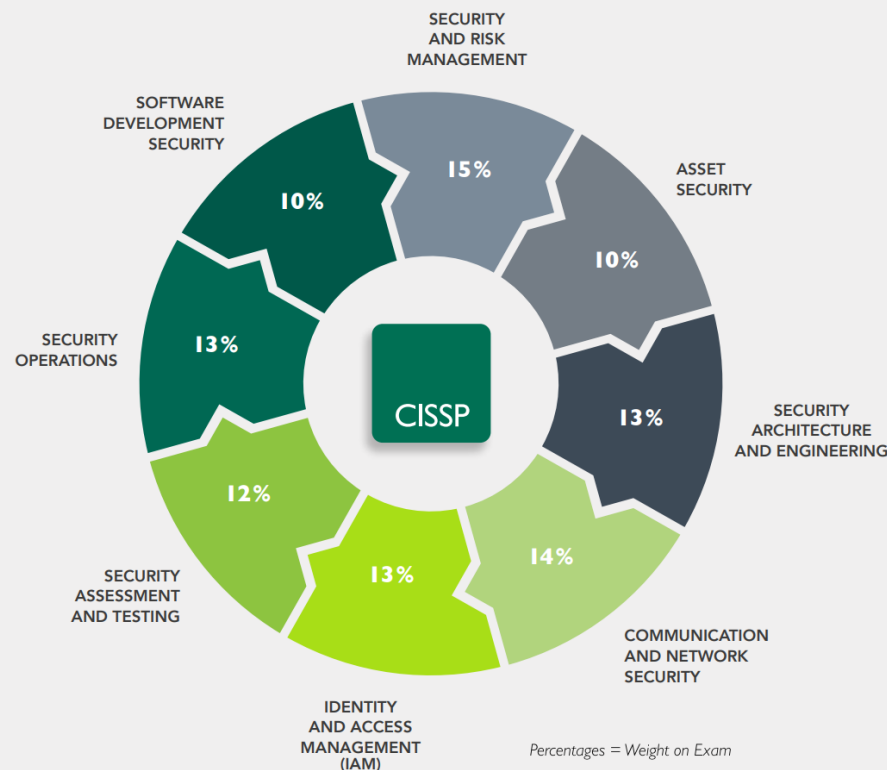
The Certified Information Systems Security Professional (or “CISSP”)

Get your Ultimate Guide to the CISSP @

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CISSP Exam Overview

The CISSP exam evaluates expertise across eight security domains. (Think of domains as topics you need to master based on your professional experience and education.) Passing the exam proves you have the advanced knowledge and technical skills to effectively design, implement and manage a best-in-class cybersecurity program.





CISSP® MENTOR PROGRAM – SESSION ONE

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100 - 150

Number of items on the English CISSP CAT
(Computer Adaptive Testing) exam

The non-English linear, fixed-form CISSP exam has 250 items

3

hrs.

Maximum amount of time for
the CISSP CAT exam

The non-English linear, fixed-form CISSP
exam allows 6 hours to complete

700

Score you need out of 1,000
to pass the exam

CISSP CAT

As of December 18, 2017, all English
CISSP exams worldwide use CAT. Non-
English CISSP exams are administered as
a linear, fixed-form exam.

[Learn more about CAT](#)

Exam availability: English, French,
German, Brazilian Portuguese, Spanish,
Japanese, Simplified Chinese, Korean,
Visually impaired

Testing Centers: Pearson VUE



CISSP® MENTOR PROGRAM – SESSION ONE

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1 CISSP Computerized Adaptive Testing

Num
(Com
The no

(ISC)² has introduced Computerized Adaptive Testing (CAT) for all English CISSP exams worldwide. Based on the same exam content outline as the linear, fixed-form exam, CISSP CAT is a more precise and efficient evaluation of your competency. CISSP CAT enables you to prove your knowledge by answering fewer items and completing the exam in half the time.

How Does it Work?

Each candidate taking the CISSP CAT exam will start with an item that is well below the passing standard. Following a candidate's response to an item, the scoring algorithm re-estimates the candidate's ability based on the difficulty of all items presented and answers provided. With each additional item answered, the computer's estimate of the candidate's ability becomes more precise – gathering as much information as possible about a candidate's true ability level more efficiently than traditional, linear exams.

This more precise evaluation enables us to reduce the maximum exam administration time from 6 hours to 3 hours, and it reduces the items necessary to accurately assess a candidate's ability from 250 items on a linear, fixed-form exam to as little as 100 items on the CISSP CAT exam.

The exam content outline and passing standard for both versions of the examination are exactly the same. Each candidate will be assessed on the same content and must demonstrate the same level of competency regardless of the exam format.

CISSP exams in all other languages, as well as all CISSP concentration exams are delivered as linear, fixed-form exams.



CISSP® MENTOR PROGRAM – SESSION ONE

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Official CISSP Training

With self-paced or instructor-led online and classroom courses, (ISC)² has a training option to fit different schedules and learning styles. Trainings, seminars, courseware and self-study aids directly from (ISC)² or one of our many Official Training Providers help you get ready for the CISSP exam by reviewing relevant domains and topics.



[Classroom-based](#)



[Online Instructor-Led](#)



[Private On-site](#)



[Online Self-Paced](#)



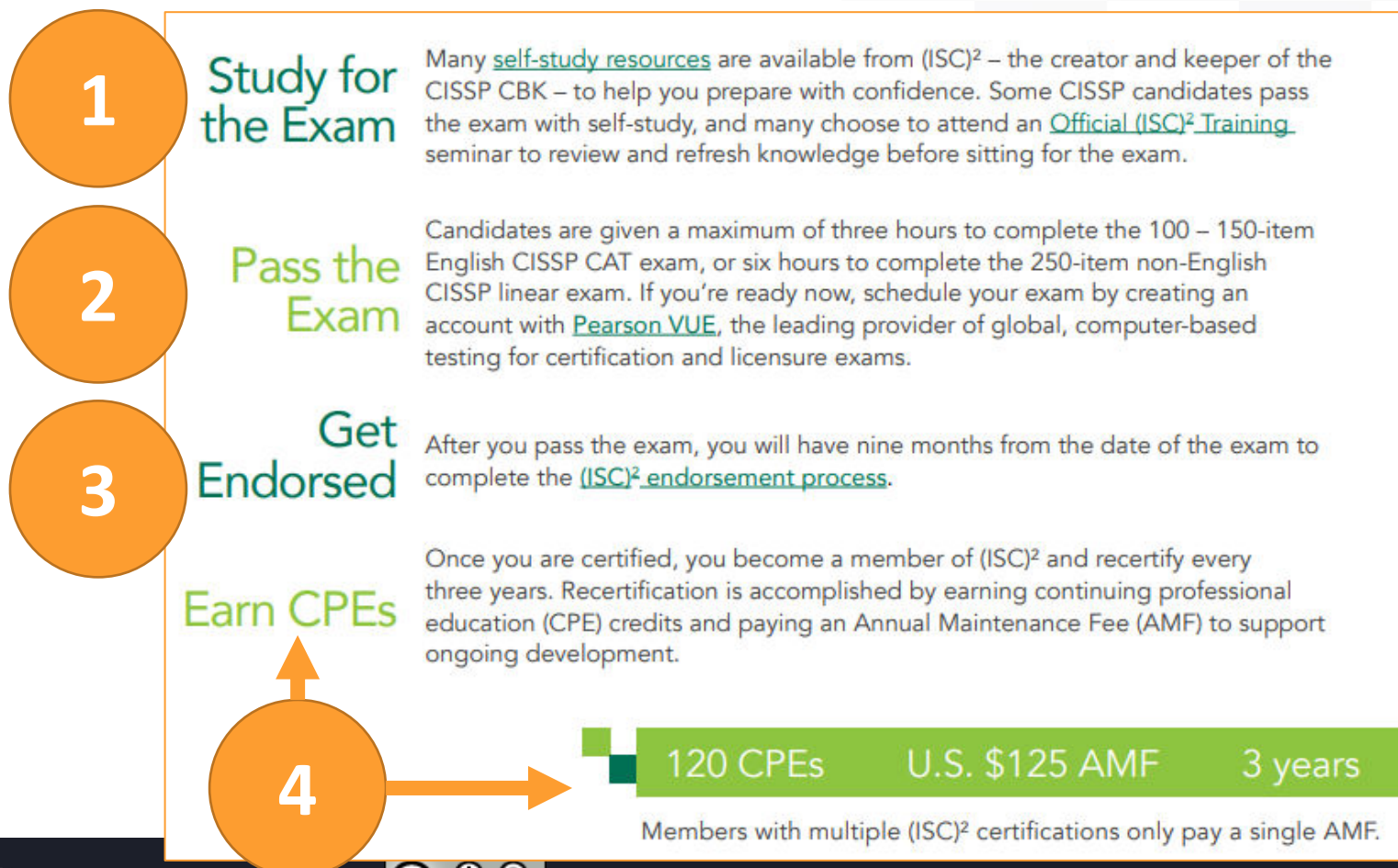
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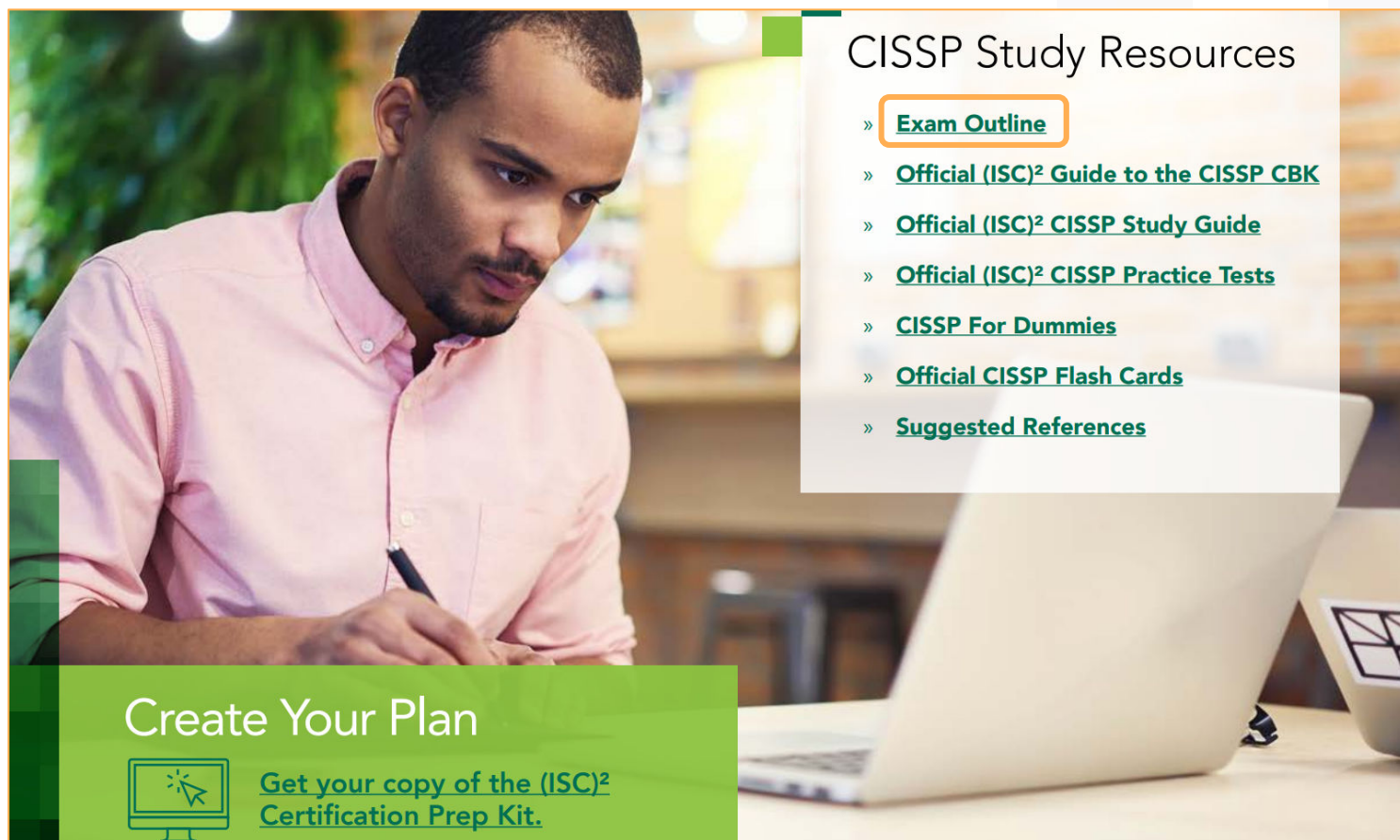
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CISSP Study Resources

- » [Exam Outline](#)
- » [Official \(ISC\)² Guide to the CISSP CBK](#)
- » [Official \(ISC\)² CISSP Study Guide](#)
- » [Official \(ISC\)² CISSP Practice Tests](#)
- » [CISSP For Dummies](#)
- » [Official CISSP Flash Cards](#)
- » [Suggested References](#)

Create Your Plan



Get your copy of the (ISC)² Certification Prep Kit.



CISSP® MENTOR PROGRAM – SESSION ONE

CISSP CERTIFICATION EXAM OUTLINE

<https://www.isc2.org//-/media/ISC2/Certifications/Exam-Outlines/CISSP-Exam-Outline-English-April-2021.ashx>

CISSP CAT Examination Information

The CISSP exam uses Computerized Adaptive Testing (CAT) for all English exams. CISSP exams in all other languages are administered as linear, fixed-form exams. You can learn more about CISSP CAT at www.isc2.org/certifications/CISSP-CAT.

Length of exam	3 hours
Number of questions	100 - 150
Question format	Multiple choice and advanced innovative questions
Passing grade	700 out of 1000 points
Exam language availability	English
Testing center	(ISC) ² Authorized PPC and PVTC Select Pearson VUE Testing Centers

CISSP CAT Examination Weights

Domains	Average Weight
1. Security and Risk Management	15%
2. Asset Security	10%
3. Security Architecture and Engineering	13%
4. Communication and Network Security	14%
5. Identity and Access Management (IAM)	13%
6. Security Assessment and Testing	12%
7. Security Operations	13%
8. Software Development Security	10%
Total:	100%



CISSP® MENTOR PROGRAM – SESSION ONE

CISSP CERTIFICATION EXAM OUTLINE & CLASS SCHEDULE



Domain 1: Security and Risk Management

1.1 Understand and apply concepts of confidentiality, integrity and availability

1.2 Evaluate and apply security governance principles

- » Alignment of security function to business strategy, goals, mission, and objectives
- » Organizational processes (e.g., acquisitions, divestitures, governance committees)
- » Organizational roles and responsibilities
- » Security control frameworks
- » Due care/due diligence

1.3 Determine compliance requirements

- » Contractual, legal, industry standards, and regulatory requirements
- » Privacy requirements

1.4 Understand legal and regulatory issues that pertain to information security in a global context

- » Cyber crimes and data breaches
- » Licensing and intellectual property requirements
- » Import/export controls
- » Trans-border data flow
- » Privacy

1.5 Understand, adhere to, and promote professional ethics

- » (ISC)² Code of Professional Ethics
- » Organizational code of ethics

1.6 Develop, document, and implement security policy, standards, procedures, and guidelines

1.7 Identify, analyze, and prioritize Business Continuity (BC) requirements

- » Develop and document scope and plan
- » Business Impact Analysis (BIA)

1.8 Contribute to and enforce personnel security policies and procedures

- » Candidate screening and hiring
- » Employment agreements and policies
- » Onboarding and termination processes
- » Vendor, consultant, and contractor agreements and controls
- » Compliance policy requirements
- » Privacy policy requirements

1.9 Understand and apply risk management concepts

- » Identify threats and vulnerabilities
- » Risk assessment/analysis
- » Risk response
- » Countermeasure selection and implementation
- » Applicable types of controls (e.g., preventive, detective, corrective)
- » Security Control Assessment (SCA)
- » Monitoring and measurement
- » Asset valuation
- » Reporting
- » Continuous improvement
- » Risk frameworks

1.10 Understand and apply threat modeling concepts and methodologies

- » Threat modeling methodologies
- » Threat modeling concepts

1.11 Apply risk-based management concepts to the supply chain

- » Risks associated with hardware, software, and services
- » Third-party assessment and monitoring
- » Minimum security requirements
- » Service-level requirements

1.12 Establish and maintain a security awareness, education, and training program

- » Methods and techniques to present awareness and training
- » Periodic content reviews
- » Program effectiveness evaluation

Class 2: April 14th
Instructor: Brad





CISSP® MENTOR PROGRAM – SESSION ONE

CISSP CERTIFICATION EXAM OUTLINE & CLASS SCHEDULE



Domain 2: Asset Security

2.1 Identify and classify information and assets

- » Data classification
- » Asset Classification

2.2 Determine and maintain information and asset ownership

2.3 Protect privacy

- » Data owners
- » Data remanence
- » Data processors
- » Collection limitation

2.4 Ensure appropriate asset retention

2.5 Determine data security controls

- » Understand data states
- » Standards selection
- » Scoping and tailoring
- » Data protection methods

2.6 Establish information and asset handling requirements

Class 3: April 19th
Instructor: Brad



CISSP® MENTOR PROGRAM – SESSION ONE

CISSP CERTIFICATION EXAM OUTLINE & CLASS SCHEDULE



Domain 3: Security Architecture and Engineering

- 3.1 Implement and manage engineering processes using secure design principles
- 3.2 Understand the fundamental concepts of security models
- 3.3 Select controls based upon systems security requirements
- 3.4 Understand security capabilities of information systems (e.g., memory protection, Trusted Platform Module (TPM), encryption/decryption)
- 3.5 Assess and mitigate the vulnerabilities of security architectures, designs, and solution elements
 - » Client-based systems
 - » Server-based systems
 - » Database systems
 - » Cryptographic systems
 - » Industrial Control Systems (ICS)
 - » Cloud-based systems
 - » Distributed systems
 - » Internet of Things (IoT)
- 3.6 Assess and mitigate vulnerabilities in web-based systems
- 3.7 Assess and mitigate vulnerabilities in mobile systems
- 3.8 Assess and mitigate vulnerabilities in embedded devices
- 3.9 Apply cryptography
 - » Cryptographic life cycle (e.g., key management, algorithm selection)
 - » Cryptographic methods (e.g., symmetric, asymmetric, elliptic curves)
 - » Public Key Infrastructure (PKI)
 - » Key management practices
 - » Digital signatures
 - » Non-repudiation
 - » Integrity (e.g., hashing)
 - » Understand methods of cryptanalytic attacks
 - » Digital Rights Management (DRM)
- 3.10 Apply security principles to site and facility design

3.11 Implement site and facility security controls

- » Wiring closets/intermediate distribution facilities
- » Server rooms/data centers
- » Media storage facilities
- » Evidence storage
- » Restricted and work area security
- » Utilities and Heating, Ventilation, and Air Conditioning (HVAC)
- » Environmental issues
- » Fire prevention, detection, and suppression

Class 3: April 19th
Instructor: Brad

Class 4: April 21st
Instructor: Ryan



CISSP® MENTOR PROGRAM – SESSION ONE

CISSP CERTIFICATION EXAM OUTLINE & CLASS SCHEDULE

April 26th - BREAK



CISSP® MENTOR PROGRAM – SESSION ONE

CISSP CERTIFICATION EXAM OUTLINE & CLASS SCHEDULE



Domain 3: Security Architecture and Engineering

- 3.1 Implement and manage engineering processes using secure design principles
- 3.2 Understand the fundamental concepts of security models
- 3.3 Select controls based upon systems security requirements
- 3.4 Understand security capabilities of information systems (e.g., memory protection, Trusted Platform Module (TPM), encryption/decryption)
- 3.5 Assess and mitigate the vulnerabilities of security architectures, designs, and solution elements
 - » Client-based systems
 - » Server-based systems
 - » Database systems
 - » Cryptographic systems
 - » Industrial Control Systems (ICS)
 - » Cloud-based systems
 - » Distributed systems
 - » Internet of Things (IoT)
- 3.6 Assess and mitigate vulnerabilities in web-based systems
- 3.7 Assess and mitigate vulnerabilities in mobile systems
- 3.8 Assess and mitigate vulnerabilities in embedded devices
- 3.9 Apply cryptography
 - » Cryptographic life cycle (e.g., key management, algorithm selection)
 - » Cryptographic methods (e.g., symmetric, asymmetric, elliptic curves)
 - » Public Key Infrastructure (PKI)
 - » Key management practices
 - » Digital signatures
 - » Non-repudiation
 - » Integrity (e.g., hashing)
 - » Understand methods of cryptanalytic attacks
 - » Digital Rights Management (DRM)
- 3.10 Apply security principles to site and facility design

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- » Wiring closets/intermediate distribution facilities
- » Server rooms/data centers
- » Media storage facilities
- » Evidence storage
- » Restricted and work area security
- » Utilities and Heating, Ventilation, and Air Conditioning (HVAC)
- » Environmental issues
- » Fire prevention, detection, and suppression

Class 5: April 28th
Instructor: Brad



CISSP® MENTOR PROGRAM – SESSION ONE

CISSP CERTIFICATION EXAM OUTLINE & CLASS SCHEDULE



Domain 4: Communication and Network Security

4.1 Implement secure design principles in network architectures

- » Open System Interconnection (OSI) and Transmission Control Protocol/Internet Protocol (TCP/IP) models
- » Internet Protocol (IP) networking
- » Implications of multilayer protocols
- » Converged protocols
- » Software-defined networks
- » Wireless networks

4.2 Secure network components

- » Operation of hardware
- » Transmission media
- » Network Access Control (NAC) devices
- » Endpoint security
- » Content-distribution networks

4.3 Implement secure communication channels according to design

- » Voice
- » Multimedia collaboration
- » Remote access
- » Data communications
- » Virtualized networks

Class 6: May 3rd
Instructor: Evan

Class 7: May 5th
Instructor: Evan



CISSP® MENTOR PROGRAM – SESSION ONE

CISSP CERTIFICATION EXAM OUTLINE & CLASS SCHEDULE



Domain 5: Identity and Access Management (IAM)

5.1 Control physical and logical access to assets

- » Information
- » Systems
- » Devices
- » Facilities

5.2 Manage identification and authentication of people, devices, and services

- » Identity management implementation
- » Single/multi-factor authentication
- » Accountability
- » Session management
- » Registration and proofing of identity
- » Federated Identity Management (FIM)
- » Credential management systems

5.3 Integrate identity as a third-party service

- » On-premise
- » Cloud
- » Federated

5.4 Implement and manage authorization mechanisms

- » Role Based Access Control (RBAC)
- » Rule-based access control
- » Mandatory Access Control (MAC)
- » Discretionary Access Control (DAC)
- » Attribute Based Access Control (ABAC)

5.5 Manage the identity and access provisioning lifecycle

- » User access review
- » System account access review
- » Provisioning and deprovisioning

Class 8: May 10th
Instructor: Evan



CISSP® MENTOR PROGRAM – SESSION ONE

CISSP CERTIFICATION EXAM OUTLINE & CLASS SCHEDULE

May 12th - BREAK



CISSP® MENTOR PROGRAM – SESSION ONE

CISSP CERTIFICATION EXAM OUTLINE & CLASS SCHEDULE



Domain 6: Security Assessment and Testing

6.1 Design and validate assessment, test, and audit strategies

- » Internal
- » External
- » Third-party

6.2 Conduct security control testing

- » Vulnerability assessment
- » Penetration testing
- » Log reviews
- » Synthetic transactions
- » Code review and testing
- » Misuse case testing
- » Test coverage analysis
- » Interface testing

6.3 Collect security process data (e.g., technical and administrative)

- » Account management
- » Management review and approval
- » Key performance and risk indicators
- » Backup verification data
- » Training and awareness
- » Disaster Recovery (DR) and Business Continuity (BC)

6.4 Analyze test output and generate report

6.5 Conduct or facilitate security audits

- » Internal
- » External
- » Third-party

Class 9: May 17th
Instructor: Ryan



CISSP® MENTOR PROGRAM – SESSION ONE

CISSP CERTIFICATION EXAM OUTLINE & CLASS SCHEDULE



Domain 7: Security Operations

7.1 Understand and support investigations

- » Evidence collection and handling
- » Reporting and documentation
- » Investigative techniques
- » Digital forensics tools, tactics, and procedures

7.2 Understand requirements for investigation types

- » Administrative
- » Criminal
- » Civil
- » Regulatory
- » Industry standards

7.3 Conduct logging and monitoring activities

- » Intrusion detection and prevention
- » Security Information and Event Management (SIEM)
- » Continuous monitoring
- » Egress monitoring

7.4 Securely provisioning resources

- » Asset inventory
- » Asset management
- » Configuration management

7.5 Understand and apply foundational security operations concepts

- » Need-to-know/least privileges
- » Separation of duties and responsibilities
- » Privileged account management
- » Job rotation
- » Information lifecycle
- » Service Level Agreements (SLA)

7.6 Apply resource protection techniques

- » Media management
- » Hardware and software asset management

7.7 Conduct incident management

- » Detection
- » Response
- » Mitigation
- » Reporting
- » Recovery
- » Remediation
- » Lessons learned

7.8 Operate and maintain detective and preventative measures

- » Firewalls
- » Intrusion detection and prevention systems
- » Whitelisting/blacklisting
- » Third-party provided security services
- » Sandboxing
- » Honeypots/honeynets
- » Anti-malware

7.9 Implement and support patch and vulnerability management

7.10 Understand and participate in change management processes

7.11 Implement recovery strategies

- » Backup storage strategies
- » Recovery site strategies
- » Multiple processing sites
- » System resilience, high availability, Quality of Service (QoS), and fault tolerance

7.12 Implement Disaster Recovery (DR) processes

- » Response
- » Personnel
- » Communications
- » Assessment
- » Restoration
- » Training and awareness

7.13 Test Disaster Recovery Plans (DRP)

- » Read-through/tabletop
- » Walkthrough
- » Simulation
- » Parallel
- » Full interruption

Class 10: May 19th
Instructor: Brad

Class 11: May 24th
Instructor: Ryan

7.14 Participate in Business Continuity (BC) planning and exercises

7.15 Implement and manage physical security

- » Perimeter security controls
- » Internal security controls

7.16 Address personnel safety and security concerns

- » Travel
- » Security training and awareness
- » Emergency management
- » Duress





CISSP® MENTOR PROGRAM – SESSION ONE

CISSP CERTIFICATION EXAM OUTLINE & CLASS SCHEDULE

**Domain 8:
Software Development Security****8.1 Understand and integrate security in the Software Development Life Cycle (SDLC)**

- » Development methodologies
- » Maturity models
- » Operation and maintenance
- » Change management
- » Integrated product team

8.2 Identify and apply security controls in development environments

- » Security of the software environments
- » Configuration management as an aspect of secure coding
- » Security of code repositories

8.3 Assess the effectiveness of software security

- » Auditing and logging of changes
- » Risk analysis and mitigation

8.4 Assess security impact of acquired software**8.5 Define and apply secure coding guidelines and standards**

- » Security weaknesses and vulnerabilities at the source-code level
- » Security of application programming interfaces
- » Secure coding practices

**CISSP Exam Final Preparation & Practice
Testing****Class 12: May 26th****Class 13: June 2nd****Instructors: Evan, Brad, and Ryan****Class 12: May 26th
Instructor: Evan**



CISSP® MENTOR PROGRAM – SESSION ONE

CISSP CERTIFICATION EXAM OUTLINE & CLASS SCHEDULE

2021 FRSecure CISSP Mentor Program Class Schedule

Date	Instructor	Class Content
12-Apr	Evan Francen	Introduction
14-Apr	Brad Nigh	Domain 1: Security and Risk Management
19-Apr	Brad Nigh	Domains 2 & 3: Asset Security & Security Engineering
21-Apr	Ryan Cloutier	Domain 3: Security Engineering
26-Apr	BREAK - CATCH UP	
28-Apr	Brad Nigh	Domain 3: Security Engineering
3-May	Evan Francen	Domain 4: Communication & Network Security
5-May	Evan Francen	Domain 4: Communication & Network Security
10-May	Evan Francen	Domain 5: Identity & Access Management
12-May	BREAK - CATCH UP	
17-May	Ryan Cloutier	Domain 6: Security Assessment & Testing
19-May	Brad Nigh	Domain 7: Security Operations
24-May	Ryan Cloutier	Domain 7 & 8: Security Operations & Software Development Security
26-May	Evan Francen	Review & Exam Prep
31-May	BREAK - CATCH UP	
2-Jun	Ryan Cloutier	Final Exam Prep

All classes start live streaming at 6:00 CDT.

NOTE: Links to the class live streams are emailed the day of class. If you do not receive the email from FRSecure, class links will also be posted in the FRSecure 2021 CISSP Mentor Program Study Group

Once again, for reference...



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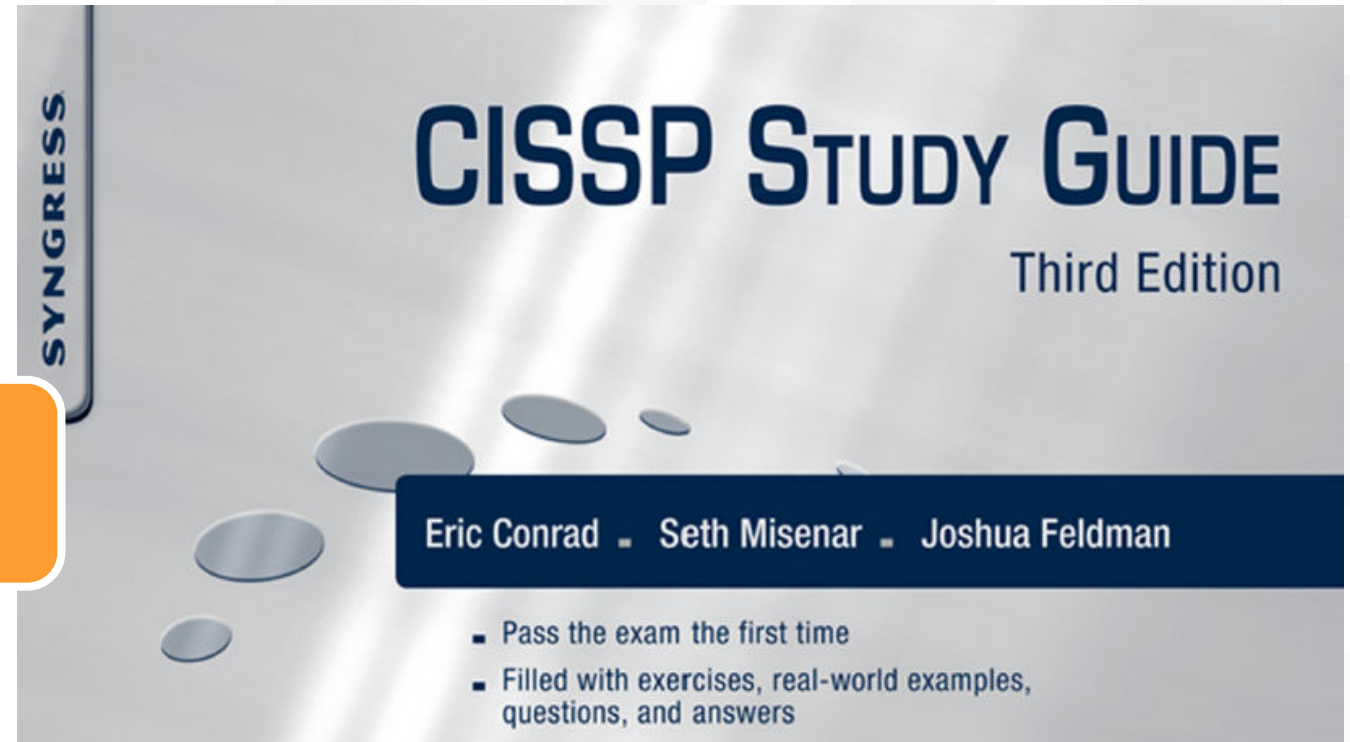
THE BOOK

CISSP Study Guide – Third Edition

Title: CISSP Study Guide, Third Edition (Paperback) by Eric Conrad, Seth Misenar, & Joshua Feldman.

- ISBN-10: 0128024372
- ISBN-13: 978-0128024379

WAIT! This book is more than five years old!



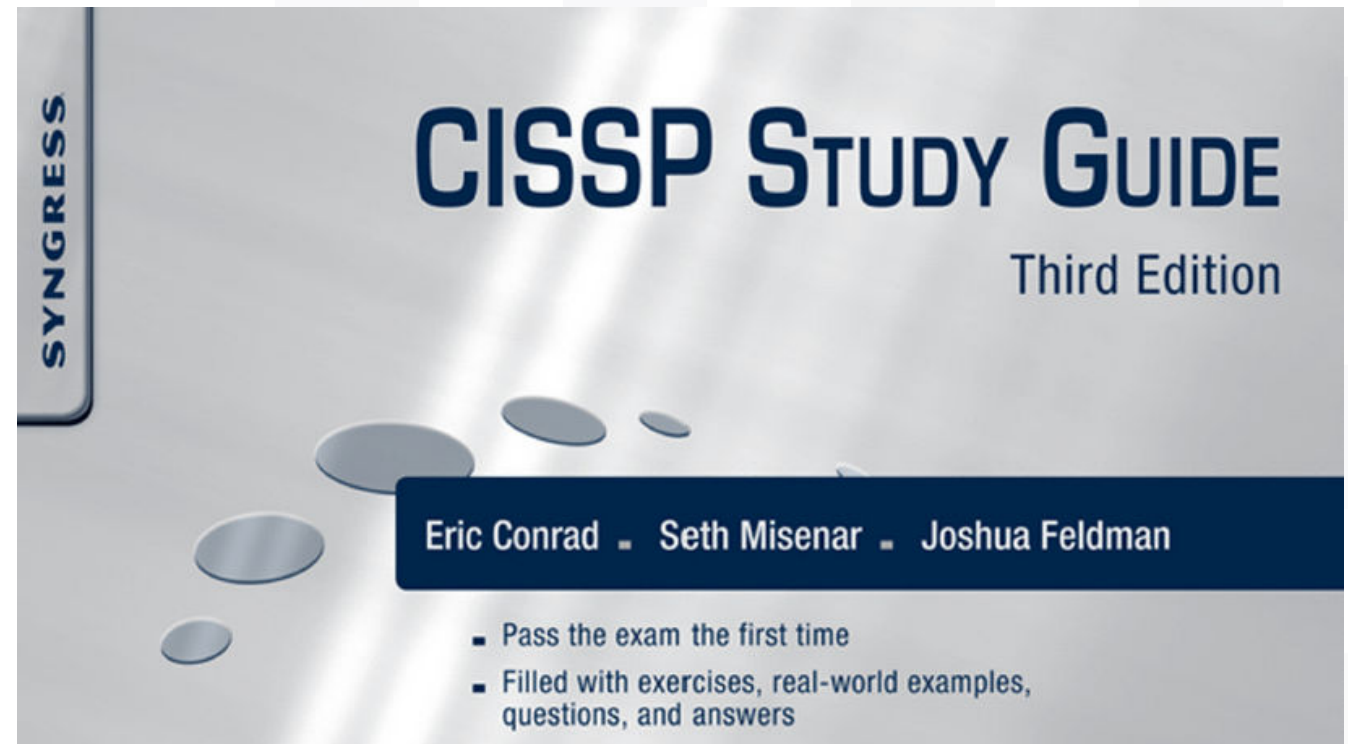


CISSP® MENTOR PROGRAM – SESSION ONE

THE BOOK

CISSP Study Guide – Third Edition

- If you don't have it, you can get it in a variety of place; Amazon, Elsevier, Borders, etc.
- I prefer the book in Adobe Acrobat format; easy reference and copy/paste capabilities.





CISSP® MENTOR PROGRAM – SESSION ONE

READY?! LET'S DIG IN.



BTW. Dogs are cool.



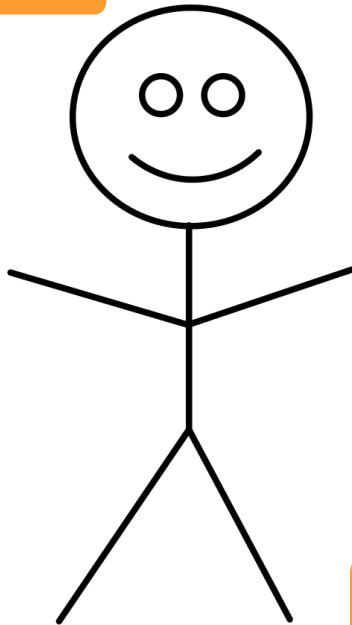
CISSP® MENTOR PROGRAM – SESSION ONE

CHAPTER 1 - INTRODUCTION

EXAM OBJECTIVES IN THIS CHAPTER

- How to prepare for the Exam
- How to take the Exam

Stick with it!



You ARE NOT required to take the exam!

Everybody has their own pace.

Everybody has their own method.

Get it?! “Stick” with it?

Sorry, that was dumb...



CISSP® MENTOR PROGRAM – SESSION ONE

CHAPTER 1 - INTRODUCTION

How to take the Exam

- Used to be six hours and 250 questions.
- Now it's three hours and 150 questions! (**not in the book**)
- Computer-based testing ("CBT") at Pearson Vue, used to be paper and pencil (Evan's old!)
- Two (sort of four) types of questions:
 - Multiple Choice (four options, two are almost obviously wrong)
 - "Advanced Innovative"
 - Scenario
 - Drag/Drop
 - Hotspot

All this is valid, but you may have heard the CISSP exam is changing...

On May 1st, we're getting a "Domain Refresh"!





CISSP® MENTOR PROGRAM – SESSION ONE

CHAPTER 1 - INTRODUCTION

CISSP Domain Refresh FAQs

(<https://www.isc2.org/Certifications/CISSP/Domain-Refresh-FAQ>)

How is the CISSP exam changing?

“As a result of the content refresh, we have updated some of the domain names to describe the topics accurately. For details on the exam domain and subdomain changes, review our CISSP Domain Refresh guide.”

(<https://www.isc2.org/-/media/ISC2/Certifications/Domain-Refresh/CISSP-Domain-Refresh.ashx>) .

NOTE: Content HAS NOT been officially published by (ISC)² yet; however, we will cover the changes (including content) in the CISSP Mentor Program.



CISSP® MENTOR PROGRAM – SESSION ONE

CHAPTER 1 - INTRODUCTION

CISSP Domain Refresh



CISSP® MENTOR

CHAPTER 1

CISSP Domain 1

April 2018 – April 2021

Domain 1:
Security and Risk Management

- Understand and apply concepts of confidentiality, integrity and availability
- Evaluate and apply security governance principles
- Determine compliance requirements
- Understand legal and regulatory issues that pertain to information security in a global context
- Understand, adhere to, and promote professional ethics
- Develop, document, and implement security policy, standards, procedures, and guidelines
- Identify, analyze, and prioritize Business Continuity (BC) requirements
- Contribute to and enforce personnel security policies and procedures
- Understand and apply risk management concepts
- Understand and apply threat modeling concepts and methodologies
- Apply risk-based management concepts to the supply chain
- Establish and maintain a security awareness, education, and training program

Exam Weight: 15%

Effective May 1, 2021

Domain 1:
Security and Risk Management

- Understand, adhere to, and promote professional ethics
- Understand and apply security concepts
- Evaluate and apply security governance principles
- Determine compliance and other requirements
- Understand legal and regulatory issues that pertain to information security in a holistic context
- Understand requirements for investigation types (i.e., administrative, criminal, civil, regulatory, industry standards)
- Develop, document, and implement security policy, standards, procedures, and guidelines
- Identify, analyze, and prioritize Business Continuity (BC) requirements
- Contribute to and enforce personnel security policies and procedures
- Understand and apply risk management concepts
- Understand and apply threat modeling concepts and methodologies
- Apply Supply Chain Risk Management (SCRM) concepts
- Establish and maintain a security awareness, education, and training program

Exam Weight: 15%

#MissionBeforeMoney



CISSP® MENTOR PROGRAM – SESSION ONE

CHAPTER 1 - INTRODUCTION

CISSP Don

April 2018 – April 2021	Effective May 1, 2021
Domain 2: Asset Security <ul style="list-style-type: none"> • Identify and classify information and assets • Determine and maintain information and asset ownership • Protect privacy • Ensure appropriate asset retention • Determine data security controls • Establish information and asset handling requirements 	Domain 2: Asset Security <ul style="list-style-type: none"> • Identify and classify information and assets • Establish information and asset handling requirements • Provision resources securely • Manage data lifecycle • Ensure appropriate asset retention (e.g., Eng-of-Life (EOL), End-of-Support (EOS)) • Determine data security controls and compliance requirements
Exam Weight: 10%	Exam Weight: 10%



CISSP® MEN
CHAPT
CISSP Don

April 2018 – April 2021

Domain 3:
Security Architecture and Engineering

- Implement and manage engineering processes using secure design principles
- Understand the fundamental concepts of security models
- Select controls based upon systems security requirements
- Understand security capabilities of information systems (e.g., memory protection, Trusted Platform Module (TPM), encryption/decryption)
- Assess and mitigate the vulnerabilities of security architectures, designs, and solution elements
- Assess and mitigate vulnerabilities in web-based systems
- Assess and mitigate vulnerabilities in mobile systems
- Assess and mitigate vulnerabilities in embedded devices
- Apply cryptography
- Apply security principles to site and facility design
- Implement site and facility security controls

Exam Weight: 13%

Effective May 1, 2021

Domain 3:
Security Architecture and Engineering

- Research, implement and manage engineering processes using secure design principles
- Understand the fundamental concepts of security models (e.g., Biba, Star Model, Bell-LaPadula)
- Select controls based upon systems security requirements
- Understand security capabilities of Information Systems (IS) (e.g., memory protection, Trusted Platform Module (TPM), encryption/decryption)
- Assess and mitigate the vulnerabilities of security architectures, designs, and solution elements
- Select and determine cryptographic solutions
- Understand methods of cryptanalytic attacks
- Apply security principles to site and facility design
- Design site and facility security controls

Exam Weight: 13%

#MissionBeforeMoney

Sort of wish we could have spared you this. 😞



CISSP® MENTOR

CHAPTER 4

CISSP Domain 4

April 2018 – April 2021	Effective May 1, 2021
Domain 4: Communication and Network Security	Domain 4: Communication and Network Security
<ul style="list-style-type: none">• Implement secure design principles in network architectures• Secure network components• Implement secure communication channels according to design	<ul style="list-style-type: none">• Assess and implement secure design principles in network architectures• Secure network components• Implement secure communication channels according to design
Exam Weight: 14%	Exam Weight: 13%
April 2018 – April 2021	Effective May 1, 2021
Domain 5: Identity and Access Management (IAM)	Domain 5: Identity and Access Management (IAM)
<ul style="list-style-type: none">• Control physical and logical access to assets• Manage identification and authentication of people, devices, and services• Integrate identity as a third-party service• Implement and manage authorization mechanisms• Manage the identity and access provisioning lifecycle	<ul style="list-style-type: none">• Control physical and logical access to assets• Manage identification and authentication of people, devices, and services• Federated identity with a third-party service• Implement and manage authorization mechanisms• Manage the identity and access provisioning lifecycle• Implement authentication systems
Exam Weight: 13%	Exam Weight: 13%



CISSP® MENTOR PROGRAM – SESSION ONE

CHAPTER 1 - INTRODUCTION

CISSP Domain Refresh

April 2018 – April 2021	Effective May 1, 2021
Domain 6: Security Assessment and Testing	Domain 6: Security Assessment and Testing
<ul style="list-style-type: none">• Design and validate assessment, test, and audit strategies• Conduct security control testing• Collect security process data (e.g., technical and administrative)• Analyze test output and generate report• Conduct or facilitate security audits	<ul style="list-style-type: none">• Design and validate assessment, test, and audit strategies• Conduct security control testing• Collect security process data (e.g., technical and administrative)• Analyze test output and generate report• Conduct or facilitate security audits
Exam Weight: 12%	Exam Weight: 12%



CISSP® MENTOR

CHAPTER 7

CISSP Domain 7

Prior to September 15, 2020

Domain 7:
Security Operations

- Understand and support investigations
- Understand requirements for investigation types
- Conduct logging and monitoring activities
- Securely provisioning resources
- Understand and apply foundational security operations concepts
- Apply resource protection techniques
- Conduct incident management
- Operate and maintain detective and preventative measures
- Implement and support patch and vulnerability management
- Understand and participate in change management processes
- Implement recovery strategies
- Implement Disaster Recovery (DR) processes
- Test Disaster Recovery Plans (DRP)
- Participate in Business Continuity (BC) planning and exercises
- Implement and manage physical security
- Address personnel safety and security concerns

Exam Weight: 13%

Effective May 1, 2021

Domain 7:
Security Operations

- Understand and comply with investigations
- Conduct logging and monitoring activities
- Perform Configuration Management (CM) (e.g., provisioning, baselining, automation)
- Apply foundational security operations concepts
- Apply resource protection
- Conduct incident management
- Operate and maintain detective and preventative measures
- Implement and support patch and vulnerability management
- Understand and participate in change management processes
- Implement recovery strategies
- Implement Disaster Recovery (DR) processes
- Test Disaster Recovery Plans (DRP)
- Participate in Business Continuity (BC) planning and exercises
- Implement and manage physical security
- Address personnel safety and security concerns

Exam Weight: 13%

#MissionBeforeMoney



CISSP® MENTOR PROGRAM – SESSION ONE

CHAPTER 1 - INTRODUCTION

CISSP Domain Refresh

Prior to September 15, 2020	Effective May 1, 2021
Domain 8: Software Development Security	Domain 8: Software Development Security
<ul style="list-style-type: none"> • Understand and integrate security in the Software Development Life Cycle (SDLC) • Identify and apply security controls in development environments • Assess the effectiveness of software security • Assess security impact of acquired software • Define and apply secure coding guidelines and standards 	<ul style="list-style-type: none"> • Understand and integrate security in the Software Development Life Cycle (SDLC) • Identify and apply security controls in development environments • Assess the effectiveness of software security • Assess security impact of acquired software • Define and apply secure coding guidelines and standards
Exam Weight: 10%	Exam Weight: 11%



CISSP® MENTOR PROGRAM – SESSION ONE

BONUS – INFORMATION SECURITY FUNDAMENTALS**What is Information Security?**

- This is a question for you.
- This is a question that our industry still struggles with.
- Don't forget this...

Information security is managing risks to the confidentiality, integrity, and availability of information using administrative, physical and technical controls.

Will also accept...

Information security is the set of rules, plans, and actions taken to protect people and information.



CISSP® MENTOR PROGRAM – SESSION ONE

BONUS – INFORMATION SECURITY FUNDAMENTALS**What is Information Security?**

- This is a question for you.
- This is a question that our industry still struggles with.
- Don't forget this...

It is NOT eliminating risk!

Information security is managing risks to the confidentiality, integrity, and availability of information using administrative, physical and technical controls.



CISSP® MENTOR PROGRAM – SESSION ONE

BONUS – INFORMATION SECURITY FUNDAMENTALS**What is Information Security?**

- This is a question for you.
- This is a question that our industry still struggles with.
- Don't forget this...

People often over-emphasize this,

Information security is managing risks to the confidentiality, integrity, and availability of information using administrative, physical and technical controls.

Balance.



CISSP® MENTOR PROGRAM – SESSION ONE

BONUS – INFORMATION SECURITY FUNDAMENTALS**What is Information Security?**

- This is a question for you.
- This is a question that our industry still struggles with.
- Don't forget this...

Information security is managing risks to the confidentiality, integrity, and availability of information using administrative, physical and technical controls.

Who cares about your firewall if I can steal your server?

It is NOT (only) and IT issue!

It's easier to go through your secretary than your firewall!

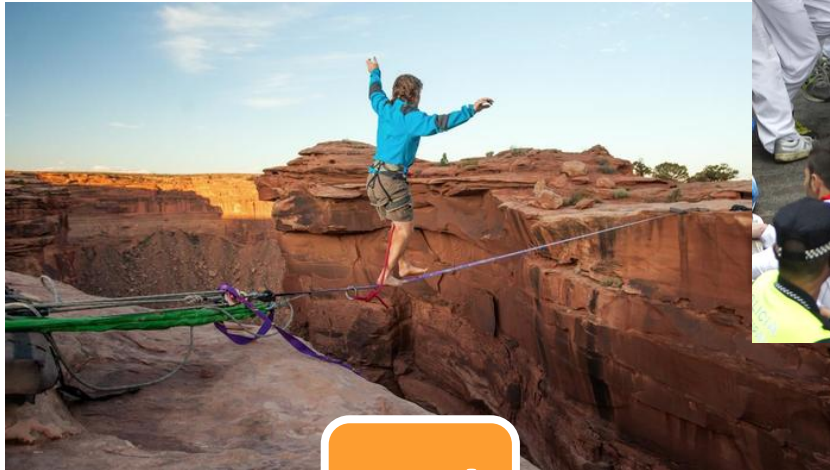


CISSP® MENTOR PROGRAM – SESSION ONE

BONUS – INFORMATION SECURITY FUNDAMENTALS**What is Risk?**

- This is a question for you.
- This is another question that our industry still struggles with.
- Don't forget this (either)...

Yes, 100%, absolutely,
and please.



NO!



Maybe



NO!



CISSP® MENTOR PROGRAM – SESSION ONE

BONUS – INFORMATION SECURITY FUNDAMENTALS**What is Risk?**

- This is a question for you.
- This is another question that our industry still struggles with.
- Don't forget this (either)...

Risk is the likelihood of something bad happening and the impact if it did.

These are derived from
threats and
vulnerabilities!



CISSP® MENTOR PROGRAM – SESSION ONE

BONUS – INFORMATION SECURITY FUNDAMENTALS

Ten Information Security Principles

1. A business is in business to make money.
2. Information Security is a business issue.
3. Information Security is fun.
4. People are the biggest risk.
5. “Compliant” and “secure” are different.

Not necessarily on the exam, but these will serve you well!



CISSP® MENTOR PROGRAM – SESSION ONE

BONUS – INFORMATION SECURITY FUNDAMENTALS**Ten Information Security Principles**

6. There is no common sense in Information Security.
7. “Secure” is relative.
8. Information Security should drive business.
9. Information Security is not one size fits all.
10. There is no “easy button”.

You Dig?!

Not necessarily on the exam, but these will serve you well!



CISSP® MENTOR PROGRAM – SESSION ONE

THAT'S IT. NEXT?**That's it for today...**

- We're very excited that we get to be a part of your information security career journey!
- This will be a rewarding experience.

For most of you:

This will get hard. This will seem dry. This will seem overwhelming.

**GIVE
UP
NEVER**

Don't give up!



CISSP® MENTOR PROGRAM – SESSION ONE

THAT'S IT. NEXT?

That's it for today...

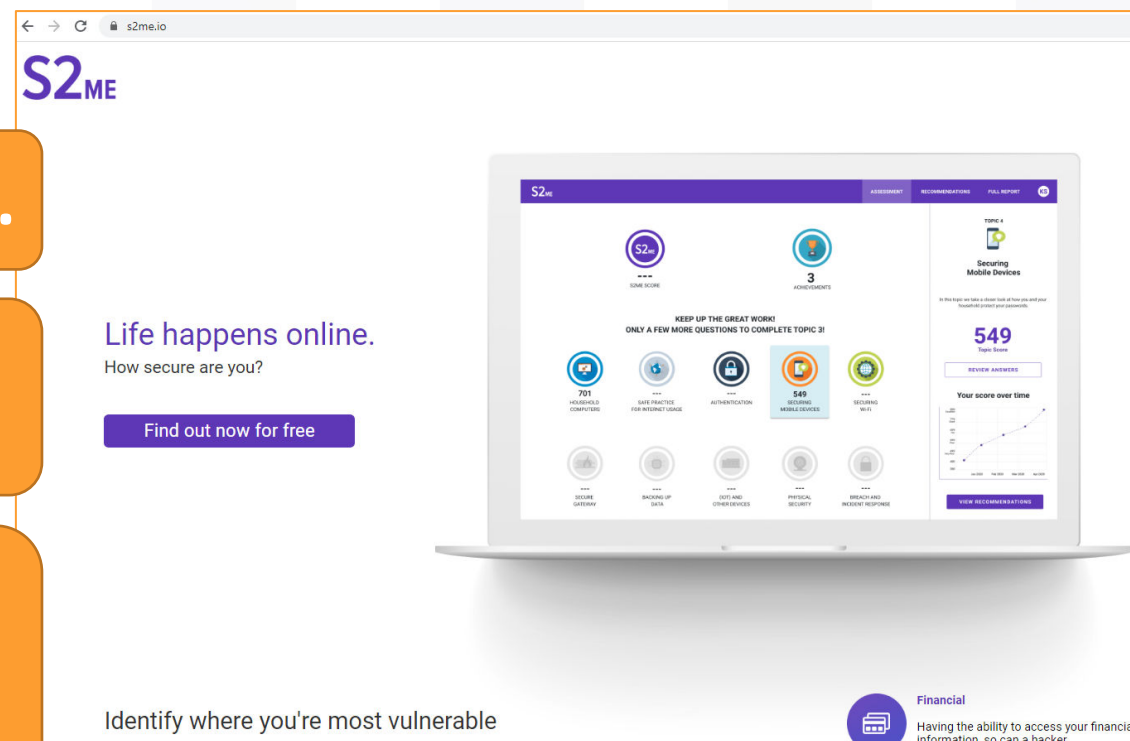
- Homework for Wednesday (4/14):
 - Do your **S²Me** – <https://s2me.io>. Tell at least two friends and/or family members to do it too!

Information security is a LIFE SKILL.

Information security, privacy and safety cannot be separated.

Telling others helps build confidence to talk to others about information security.

Your homework.





CISSP® MENTOR PROGRAM – SESSION ONE

THAT'S IT. NEXT?**That's it for today...****Your homework.**

- Homework for Wednesday (4/14):
 - Do your **S²Me** – <https://s2me.io>. Tell at least two friends and/or family members to do it too!
 - Please get the book if you haven't already.
 - Please read Chapter 1 (pages 1 – 10).
 - We will be covering Chapter 2 Domain 1: Security and Risk Management (e.g., Security, Risk, Compliance, Law, Regulations, Business Continuity) on Wednesday.

Evan Francen @evanfrancen**Brad Nigh** @BradNigh**Ryan Cloutier (“cola”)** @CLOUTIERSEC**See you Wednesday!**