CAP®

Certified Authorization Professional

For the Next Generation of Information System Authorization Professionals

The Certified Authorization Professional (CAP®) credential from (ISC)²® is an objective measure of the knowledge, skills and abilities required for personnel involved in the process of authorizing and maintaining information systems. Specifically, this credential applies to those responsible for formalizing processes used to assess risk and establish security requirements and documentation. Their decisions will ensure that information systems possess security commensurate with the level of exposure to potential risk, as well as damage to assets or individuals.

Security authorization includes a tiered risk management approach to evaluate both strategic and tactical risk across the enterprise. The authorization process incorporates the application of a Risk Management Framework (RMF), a review of the organizational structure, and the business process/mission as the foundation for the implementation and assessment of specified security controls. This authorization management process identifies vulnerabilities and security controls and determines residual risks. The residual risks are evaluated and deemed either acceptable or unacceptable. More controls must be implemented to reduce unacceptable risk. The system may be deployed only when the residual risks are acceptable to the enterprise and a satisfactory security plan is complete.

Today's utilization of technology will not assure the safety of information assets for tomorrow and must be vigilantly monitored and constantly validated against changing security requirements triggered by emerging threats.

CAP Average Annual Salary
US$108,470

Certification Magazine
Salary Survey

WHY BECOME A CAP

The CAP Helps You:

- Validate your competence, skills and commitment to the profession.
- Differentiate and enhance your credibility and marketability.
- Advance your career and increase earnings – (ISC)² members report nearly 30% average higher salary than non-members.*
- Affirm your commitment to continued competence in the most current best practices through (ISC)²'s Continuing Professional Education (CPE) requirement.
- Face the DoD 8570 compliance in IAM Level I and IAM Level II.

The CAP Helps Employers:

- Positions candidates on a level playing field as (ISC)² certifications are recognized internationally.
- Increase credibility of the organization when working with vendors and contractors.
- Ensure employees use a universal language, circumventing ambiguity with industry-accepted terms and practices.
- Confirm employee's commitment and years of experience gained in the industry.
- Increase confidence that job candidates and employees continue their education through Continuing Professional Education (CPE) credits and keep their skills current.
- Satisfy DoD certification requirements for service providers or subcontractors.

*Source: 2013 (ISC)² Global Information Security Workforce Study

CAP INSIGHT

The CAP CBK® maps to National Institute of Standards & Technology (NIST) Special Publication 800-37: "Guide for Applying the Risk Management Framework to Federal Information Systems"

"The NIST guidance outlines the integral role that continuous monitoring plays in the risk framework but also stresses that monitoring security controls is only one piece of a larger, integrated process. A CAP credential holder fully understands the entirety of the systems security authorization lifecycle."

W. Hord Tipton
CISSP-ISSEP, CAP, CISA
Executive Director,

(ISC)²®

WHO SHOULD BECOME A CAP

The ideal candidate should have experience, knowledge and skills in the following areas:

- o System authorization processes
- o Information risk management
- o Systems development experience
- o IT security/information assurance
- o Information security policy
- o Thorough understanding of NIST and OMB requirements
- o Security control testing and continuous monitoring
- o Technical or auditing experience within government, the U.S. Department of Defense, the financial or healthcare industries, and/or auditing firms

ENGAGE WHILE OBTAINING EXPERIENCE

Associate of (ISC)²®

You don't have to spend years in the field to demonstrate your competence in information security. Become an Associate of (ISC)², and you're already part of a reputable and credible organization, earning recognition from employers and peers for the industry knowledge you've already gained.

Participation Requirements

Associate of (ISC)² status is available to those knowledgeable in key areas of industry concepts but are lacking the required work experience. As a candidate, you take the CAP examination and subscribe to the (ISC)² Code of Ethics, however to earn the CAP credential you will have to acquire the necessary years of professional experience required, provide proof and be endorsed by a member of (ISC)² in good standing. If you are working towards this credential, you will have a maximum of three years from your exam pass date to acquire the necessary two years of professional experience. An Annual Maintenance Fee (AMF) of US$35 applies and 10 Continuing Professional Education (CPE) credits must be earned each year to remain in good standing.

For more information on how you can become an Associate of (ISC)², visit **www.isc2.org/associate**.

CAP AND DoD MANDATE 8570.1

Face the DoD Mandate Requirements Head-On with the CAP

Cyberspace is the new battlefield, where commercial and DoD assets have become virtual targets for our adversaries. The DoD 8570 Information Assurance Training, Certification and Workforce Management program addresses this threat by proactively educating and certifying commercial contractors and military and civilian personnel to perform their critical duties as Information Assurance professionals.

Under the 8570 Mandate, all personnel with "privileged access" to DoD systems must obtain an ANSI-approved commercial certification for IAM, IAT, CND and IASAE positions. (ISC)² was the first organization to receive ANSI accreditation under ISO/IEC Standard 17024 for its CISSP® certification and shortly thereafter received accreditation for the CAP and each of its security credentials.

Matching Classifications with the Certifications

In order to determine which certification is relevant, a classification grid has been constructed to pinpoint what duties you fulfill and what certification is appropriate for your specific job function. The grid provides guidance for assessing the proper certification commensurate with your job responsibilities. The CAP credential from (ISC)² satisfies DoD 8570 compliance in IAM Level I and IAM Level II.

IAT Level I A+ Network+ **SSCP**	**IAT Level II** GSEC Security+ **SSCP**	**IAT Level III** CASP CISA **CISSP** (or **Associate**) GCED GCIH		
IAM Level I **CAP** GSLC Security+	**IAM Level II** **CAP** CASP CISM **CISSP** (or **Associate**) GSLC	**IAM Level III** GSLC CISM **CISSP** (or **Associate**)		
CND Analyst CEH GCIA GCIH	**CND Infrastructure Support** CEH **SSCP**	**CND Incident Responder** CEH CSIH GCFA GCIH	**CND Auditor** CEH CISA GSNA	**CND-SP Manager** CISM **CISSP-ISSMP**
IASAE I CASP **CISSP** (or **Associate**) **CSSLP**	**IASAE II** CASP **CISSP** (or **Associate**) **CSSLP**	**IASAE III** **CISSP-ISSAP** **CISSP-ISSEP**		

THE CAP CBK

The seven domains of the CAP® CBK® reflect the terminology contained in the National Institute of Standards and Technology's SP800-37 publication: "Guide for Applying the Risk Management Framework to Federal Information Systems." The core of the CAP is the same as it's always been but places a stronger emphasis on the underlying methodologies and processes associated with the harmonized security authorization process, including continuous monitoring.

The comprehensive (ISC)² CAP CBK Training Seminar covers the following domains:

- **Risk Management Framework (RMF)** – Security authorization includes a tiered risk management approach to evaluate both strategic and tactical risk across the enterprise. The authorization process incorporates the application of a Risk Management Framework (RMF), a review of the organizational structure, and the business process/mission as the foundation for the implementation and assessment of specified security controls. This authorization management process identifies vulnerabilities and security controls and determines residual risks. The residual risks are evaluated and deemed either acceptable or unacceptable. More controls must be implemented to reduce unacceptable risk. The system may bedeployed only when the residual risks are acceptable to the enterprise and a satisfactroy security plan is complete.

- **Categorization of Information Systems** – Categorization of the information system is based on an impact analysis. It is performed to determine the types of information included within the security authorization boundary, the security requirements for the information types, and the potential impact on the organization resulting from a security compromise. The result of the categorization is used as the basis for developing the security plan, selecting security controls, and determining the risk inherent in operating the system.

- **Selection of Security Controls** – The security control baseline is established by determining specific controls required to protect the system based on the security categorization of the system. The baseline is tailored and supplemented in accordance with an organizational assessment of risk and local parameters. The security control baseline, as well as the plan for monitoring it, is documented in the security plan.

- **Security Control Implementation** – The security controls specified in the security plan are implemented by taking into account the minimum organizational assurance requirements. The security plan describes how the controls are employed within the information system and its operational environment. The security assessment plan documents the methods for testing these controls and the expected results throughout the systems life-cycle.

- **Security Control Assessment** – The security control assessment follows the approved plan, including defined procedures, to determine the effectiveness of the controls in meeting security requirements of the information system. The results are documented in the Security Assessment Report.

- **Information System Authorization** – The residual risks identified during the security control assessment are evaluated and the decision is made to authorize the system to operate, deny its operation, or remediate the deficiencies. Associated documentation is prepared and/or updated depending on the authorization decision.

- **Monitoring of Security Controls** – After an Authorization to Operate (ATO) is granted, ongoing continuous monitoring is performed on all identified security controls as well as the political, legal, and physical environment in which the system operates. Changes to the system or its operational environment are documented and analyzed. The security state of the system is reported to designated responsible officials. Significant changes will cause the system to reenter the security authorization process. Otherwise, the system will continue to be monitored on an ongoing basis in accordance with the organization's monitoring strategy.

Download a copy of the CAP Exam Outline at **www.isc2.org/exam-outline**.

EDUCATION DELIVERED YOUR WAY

Official (ISC)²® CAP® CBK® Training Seminar

At the Official Training Seminar you will benefit from a rich learning environment providing a complete information systems security authorization experience. Through a series of structured training modules, class discussions, case examples and end-of-domain review questions, the CAP candidate will fully understand the requirements for security authorization, the overall process and all the supporting procedures to ensure compliance with current requirements. The seminar includes:

(ISC)² Authorized Instructor, who is a Subject Matter Expert (SME)

- Courseware that is 100% up-to-date
- Exam Outline with guidance on CAP requirements
- End-of-domain review questions
- CD-ROM containing testable references identified in the Exam Outline

The Official CAP CBK Training Seminar is offered in the following formats:

- **Classroom** Delivered in a multi-day, classroom setting. Course material focuses on covering the seven CAP domains. Available throughout the world at (ISC)² facilities and (ISC)² Official Training Providers.

- **Private On-site** Host your own Training Seminar on- or off-site. Available for larger groups, this option often saves employee travel time and expense. Group pricing is also available to organizations with 15 or more employees planning to sit for the exam.

- **Live OnLine** Educate yourself from the convenience of your computer. Live OnLine brings you the same award winning course content as the classroom based or private on-site seminars and the benefit of an (ISC)² Authorized Instructor.

Visit **www.isc2.org/caprevsem** for more information or to register.

"Official (ISC)² education is the key to success in your career and pursuing certification. All training seminars are written and delivered by 'the Best Instructor Corps in the World.' Each instructor is selected for their passion and knowledge of the subject matter and ability to deliver high quality education in an effective and informative manner."

Kevin Henry
CISSP-ISSAP, ISSEP, ISSMP, CSSLP, CAP, SSCP
(ISC)² Authorized Instructor

OFFICIAL TRAINING PROVIDERS

Official (ISC)² CBK Training Seminars are available throughout the world at (ISC)² facilities and through (ISC)² Official Training Providers. Official (ISC)² CBK Training Seminars are conducted only by (ISC)² Authorized Instructors who are experts in their field and have demonstrated their mastery of the covered domains.

Be wary of training providers that are not authorized by (ISC)². Be certain that your educator carries the (ISC)² Official Training Provider logo to ensure that you are experiencing the best and most current programs available.

2013 SC Magazine Award Winner – Best Professional Training Program, (ISC)² Education

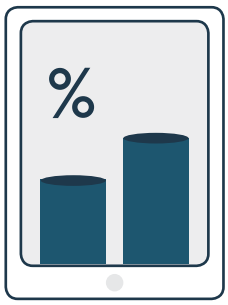
STUDY TOOLS

Exam Outline - Free

Your primary resource in your study efforts to become a CAP. The Exam Outline contains an exam blueprint that outlines major topics and subtopics within the domains, a suggested reference list for further study, exam information and registration/administration policies and instructions.
www.isc2.org/exam-outline

CBK Domain Previews - Free Webcast Channel

View a free series of short webcasts that provide a detailed overview of each domain of the CAP, the value of certification and how to study for the exam.
www.isc2.org/previews



studISCope Self Assessment

Experience the CAP certification exam as closely as possible before you take it. The 100 question studISCope provides the look and feel of the real exam while identifying key domains to study. You'll even receive a personalized study plan.
www.isc2.org/studiscope

Social Media

Join the "Certified Authorization Professionals (CAP)" groups on Linkedin and (ISC)²'s own networking site, InterSeC. As a member of these professional communities you can converse with CAP subject matter experts, show your understanding of the CAP material by educating others and also search out assistance when you need it.
www.linkedin.com and **www.isc2intersec.com**

For a detailed plan on how to study for the CAP exam, visit **www.isc2.org/how-to-study-CAP**.

CHECKLIST FOR CERTIFICATION

✓ **Obtain the Required Experience** - For the CAP® certification, a candidate is required to have a minimum of two years of cumulative paid full-time work experience in information systems security authorization.

✓ **Study for the Exam** - Utilize these optional educational tools to learn the CAP CBK®.

- Exam Outline
- CBK Domain Preview Webcasts
- Social Media Groups
- studISCope Self Assessment
- Official Training Program

✓ **Register for the Exam**

- Visit **www.isc2.org/certification-register-now** to schedule an exam date
- Submit the examination fee

✓ **Pass the Exam** - Pass the CAP examination with a scaled score of 700 points or greater. Read the Exam Scoring FAQs at **www.isc2.org/exam-scoring-faqs**.

✓ **Complete the Endorsement Process** - Once you are notified that you have successfully passed the examination, you will have nine months from the date you sat for the exam to complete the following endorsement process:

- Complete an Application Endorsement Form
- Subscribe to the (ISC)² code of ethics
- Have your form endorsed by an (ISC)² member

The credential can be awarded once the steps above have been completed and your form has been submitted.* Get the guidelines and form at **www.isc2.org/endorsement**.

✓ **Maintain the Certification** - Recertification is required every three years, with ongoing requirements to maintain your credentials in good standing. This is primarily accomplished through earning 60 Continuing Professional Education (CPE) credits every three years, with a minimum of 10 CPEs earned each year after certification. If the CPE requirements are not met, CAPs must retake the exam to maintain certification. CAPs must also pay an Annual Maintenance Fee (AMF) of US$65.

MEMBER BENEFITS

FREE:

(ISC)² One-Day SecureEvents
Industry Initiatives
Certification Verification
Chapter Program
(ISC)² Receptions/Networking Opportunities
(ISC)² Global Awards Program
Online Forum
(ISC)² e-Symposium Webinars
ThinkTANK
Global Information Security Workforce Study
InfoSecurity Professional Magazine
Safe and Secure Online Volunteer Opportunities
InterSeC

DISCOUNTED:

(ISC)² Security Congress
(ISC)² Local Two-Day Secure Events
Industry Conferences
The (ISC)² Journal

Maintain the certification with required CPEs and AMF

For more information on the CAP, visit **www.isc2.org/cap**.

**Audit Notice - Passing candidates will be randomly selected and audited by (ISC)² prior to issuance of any certificate. Multiple certifications may result in a candidate being audited more than once.*

Formed in 1989 and celebrating its 25th anniversary, (ISC)²® is the largest not-for-profit membership body of certified information and software security professionals worldwide, with nearly 100,000 members in more than 135 countries. Globally recognized as the Gold Standard, (ISC)² issues the Certified Information Systems Security Professional (CISSP®) and related concentrations, as well as the Certified Secure Software Lifecycle Professional (CSSLP®), the Certified Cyber Forensics Professional (CCFP℠), Certified Authorization Professional (CAP®), HealthCare Information Security and Privacy Practitioner (HCISPP℠), and Systems Security Certified Practitioner (SSCP®) credentials to qualifying candidates. (ISC)²'s certifications are among the first information technology credentials to meet the stringent requirements of ISO/IEC Standard 17024, a global benchmark for assessing and certifying personnel. (ISC)² also offers education programs and services based on its CBK®, a compendium of information and software security topics. More information is available at ***www.isc2.org****.*

(ISC)²®

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