"The Stanford Advanced Computer Security credential was the start of my newly assigned computer security project. Soon after graduation, I was assigned to lead a very sophisticated Identity Management Infrastructure Implementation Project for the entire corporation of 68,000 users."

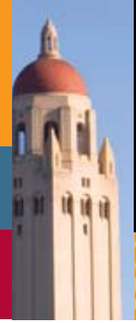


—Bayan M. Alhaddad
Infrastructure Access Lead in
the Data Protection Division
Saudi Aramco Oil Company



**Apply today!**

**scpd.stanford.edu/secure**





## Stanford Center for Professional Development

The Stanford Center for Professional Development connects working professionals worldwide to the research and teaching of Stanford University faculty in the School of Engineering and related academic departments. Qualified individuals may study for master of science degrees on a part-time basis, pursue graduate certificates and professional certificates, take individual graduate courses and professional courses, participate in workshops, view free online seminars, and more. Courses are delivered online, on the Stanford campus in the heart of Silicon Valley, and at the work site.

# Advanced Computer Security

Stanford Certificate Program

ONLINE
anytime and anywhere

**Stanford University**
Stanford Center for Professional Development
496 Lomita Mall–Durand Building, 3rd Floor Lobby
Stanford, CA 94305-4008

**Advanced Computer Security**
Stanford Certificate Program



# Strengthen your defenses



Learn how to protect networks,

secure electronic assets, prevent attacks,

and build invulnerable infrastructures.

**Learn from the experts**
Access the latest research and best practices from industry experts and world-renowned Stanford faculty.

**Take a test drive**
Hands-on lab exercises give you the opportunity to practice what you learn. Discover ways to put your new skills and knowledge to use.

**Real-world value**
Instructors evaluate real-world security attacks—learn what to do to stay ahead of the security curve.

**Intensive learning format**
Course material is condensed, relevant, and designed specifically for busy professionals. Learn it today, apply it tomorrow!

**Networking opportunities**
Network with peers, industry experts, and Stanford faculty in person or online via social networking tools. Search for "Stanford Advanced Computer Security" on Facebook and LinkedIn.

- scpd.stanford.edu/secure
- scpd-customerservice@stanford.edu
- 650.725.3016

## Certificate Information

The Advanced Computer Security Certificate is earned after the successful completion of three required courses and three electives. Select courses are offered on the Stanford campus while other courses are available online year-round.

### Required Courses

**Security Protocols** (XACS132)
Explore the security trade-offs in the design of security protocols and the vulnerabilities that arise when there are flaws in the design.

**Using Cryptography Correctly** (XACS130)
Take an approach to cryptography that avoids common programming errors that result in gaping security holes.

**Writing Secure Code** (XACS131)
Acquire techniques for developing new code as well as for discovering and mitigating vulnerabilities in existing code.

### Elective Courses

**Computer Security Management—Recent Threats, Trends, and the Law** (XACS240)
Build security into your organization by understanding security design principles, emerging threats in the field, and policy.

**Emerging Threats and Defenses** (XACS301)
Take a technical walk-through of the latest security threats and evaluate the pros and cons of new defenses.

**Securing Web Applications** (XACS243)
Discuss the unique vulnerabilities of web applications and techniques to reduce vulnerability in the client-side environment.

**Web Security 2.0: AJAX, Mashups, and Social Networking** (XACS241)
Learn about the security threats and privacy violations spawned by emergent Web 2.0 technologies.

### Special Elective

**Software Security Foundations** (XACS101)
Begin with the fundamentals: computer security principles, introduction to cryptography, and secure programming techniques. This special elective is available for participants who need to learn the basics of computer security or brush-up on their skills. *(We recommend that all participants start the program by taking this online course.)*

## Instructors



**Dan Boneh, PhD**
Associate Professor of Computer Science and Electrical Engineering, Stanford University



**Neil Daswani, PhD**
Co-founder, Dasient, Inc.



**John Mitchell, PhD**
Professor of Computer Science and Electrical Engineering, Stanford University

## Pricing

Online
Standard: $495 (per course)

Discounts for groups are available by calling 650.725.3016.

## Webinars

**Stay current with trends in computer security. View free upcoming and on-demand webinars by visiting scpd.stanford.edu/secure**

VERIFIED STANFORD CENTER FOR PROFESSIONAL DEVELOPMENT OFFICIAL RECORD OF COMPLETION

STANFORD UNIVERSITY
Stanford Center for Professional Development
496 Lomita Mall, Durand Bdg., Stanford CA 94305

## Record of Completion



Victor Sanchez
753 Alma Street #111
Palo Alto, CA
94301 United States

**Account Number: X266134**

| Course No. | Title | Quarter | Completion Date | Grade |
|---|---|---|---|---|
| XACS101 - 026 | Software Security Foundations | Spring 2013-14 | 07/Sep/2014 | S |
| XACS131 - 031 | Writing Secure Code | Spring 2014-15 | 04/Jun/2015 | S |
| XACS130 - 036 | Using Cryptography Correctly | Autumn 2015-16 | 28/Nov/2015 | S |
| XACS133 - 015 | Exploiting and Protecting Web Applications | Summer 2015-16 | 10/Jul/2016 | S |
| XACS215 - 021 | Mobile Security | Summer 2015-16 | 08/Aug/2016 | S |
| XACS301 - 048 | Emerging Threats & Defenses | Autumn 2017-18 | 21/Sep/2017 | S |

**Certificate**
Stanford Advanced Computer Security Certificate

**Awarded**
21/Sep/2017

**Paul Marca**
Executive Director
Stanford Center For Professional Development
Stanford University

THE NAME OF THIS PROGRAM APPEARS IN WHITE LETTERS ACROSS THE FACE OF THIS DOCUMENT
THE WORDS "COPY OF CERTIFIED PDF" APPEAR WHEN PRINTED FROM PDF FORMAT
COPY NOT CERTIFIED
KEY TO RECORD OF COMPLETION ON FINAL PAGE

Stanford Center for Professional Development
STANFORD UNIVERSITY
496 Lomita Mall, Durand Building
Stanford, CA 94305-4036
Phone: 650 725-3016 Fax: 650 725-2868
Web: http://scpd.stanford.edu Email: scpd-customerservice@stanford.edu

# KEY TO STANFORD CENTER FOR PROFESSIONAL DEVELOPMENT RECORD OF COMPLETION

**Key:**

| | |
|---|---|
| S | Satisfactory – A or B equivalent |
| A | Excellent |
| B | Good |
| See Axess | Grade recorded by Stanford University, available at http://axess.stanford.edu |
| Audited Course | Enrolled for video access only |
| Grade Unmarked | Course requirements not yet completed |

Note: The P (Pass) notation was used prior to Summer 2009-10. The notation was changed to S (Satisfactory) as of Jul 01, 2010.

This Record of Completion does not represent Stanford University Units.

Alteration or forgery of this document is a criminal offense. A black and white document is not an original and should not be accepted as an official institutional document.

Pursuant to the Family Education Rights and Privacy ACT of 1974 this information cannot be released to a third party without written consent of the student.

---

**Professional Development Units**

The Stanford Center for Professional Development is a registered education provider of the Project Management Institute (Provider #1963). Professional Development Units (PDUs) may be earned for each course taken as part of the Stanford Advanced Project Management Program and the Strategic Decision and Risk Management Program to maintain certification as a Project Management Professional (PMP®).

Please use the Project Management Institute activities numbers below to claim PDUs at http://www.pmi.org for eligible completed courses:

| | | | |
|---|---|---|---|
| Adaptive Execution of Strategy | XAPM223 | Advanced Decision Analysis at Stanford | XSDR320C |
| Bridging Discipline and Agility Online | XAPM223B | Advanced Decision Analysis Online | XSDR320E |
| Converting Strategy into Action at Stanford | XAPM110C2 | Biases In Decision-Making Online | XSDR220E |
| Converting Strategy into Action Online | XAPM110E2 | Biases In Decision-Making at Stanford | XSDR220C |
| Executing Complex Programs at Stanford | XAPM221C2 | Collaborative Decision-Making and Negotiation Online | XSDR225E |
| Executing Complex Programs Online | XAPM221E2 | Collaborative Decision-Making and Negotiation at Stanford | XSDR225C |
| Financial Mastery for Projects Online | XAPM212E | Decision Analysis at Stanford | XSDR122C |
| Leading Change from the Middle at Stanford | XAPM220C | Decision Analysis Online | XSDR122E |

COPY OF CERTIFIED PDF

| | |
|---|---|
| Leading Change from the Middle Online | XAPM220E |
| Leading Effective Teams at Stanford | XAPM216C |
| Leading Effective Teams Online | XAPM216E |
| Leadership for Strategic Execution at Stanford | XAPM111C |
| Leadership for Strategic Execution Online | XAPM111E |
| Leveraging the Customer Relationship | XAPM213E |
| Managing Without Authority at Stanford | XAPM214C |
| Managing Without Authority Online | XAPM214E |
| Mastering the Project Portfolio Online | XAPM112E |
| Project Innovation Through Design Thinking at Stanford | XAPM230C |
| Project Innovation Through Design Thinking Online | XAPM230E |
| Project Management Mastery Online | XAPM001E |
| Project Risk Management Online | XAPM215E |
| The Strategic Project Management Office: Projects to Enterprise Online | XAPM211E |
| Building Business Models | XINE249 |
| Cultivating the Entrepreneurial Mindset | XINE257 |
| Demand Creation: The Secrets of Driving Growth | XINE235 |
| Empathize and Prototype: A Hands on Dive into the Key Tools of Design | XINE214 |
| Financing Innovation: Valuing Projects and Firms | XINE251 |
| Innovating Through Value Chains | XINE241 |
| Leading Collaborative Teams (Teaming Across Boundaries) | XINE226E |
| Leading Innovation | XINE229E |
| Negotiation: How to Get (More of) What You Want | XINE260E |
| Power of Stories to Fuel Innovation | XINE217E |
| Scaling Excellence: How You Can Help Make it Happen | XINE232E |
| Simple Rules for Strategy Driven Innovation | XINE246E |
| Decision Quality at Stanford | XSDR120C |
| Decision Quality Online | XSDR120E |
| Decision Quality Practicum at Stanford | XSDR420C |
| Leading Strategic-Decision Making at Stanford | XSDR322C |
| Leading Strategic-Decision Making Online | XSDR322E |
| Managing Risk in Healthcare Organizations | XSDR123 |
| Modeling for Strategic Insight at Stanford | XSDR321C |
| Modeling for Strategic Insight Online | XSDR321E |
| Scenarios and Effective Forecasting at Stanford | XSDR226C |
| Scenarios and Effective Forecasting Online | XSDR226E |
| Strategic Innovation and Design Thinking at Stanford | XSDR221C |
| Strategic Innovation and Design Thinking Online | XSDR221E |
| Strategic Portfolio Decisions Online | XSDR224E |
| Strategic Portfolio Decisions at Stanford | XSDR224C |

COPY OF CERTIFIED PDF

## How to authenticate a Record of Completion from the Stanford Center for Professional Development

*Attn Mac users:* The document you are viewing utilizes Adobe's secure certified PDF technology and therefore may only be authenticated using the free Adobe Reader or Adobe Acrobat versions 9 or higher. The default Mac preview application may display the document but does not allow the end user to correctly validate the authenticity of the document.

This document has been digitally signed and therefore contains special characteristics. When this document is viewed through Adobe Reader versions 9 or higher or through Adobe Acrobat versions 9 or higher, it will reveal that a digital signature has been applied to the document. Adobe Reader versions 9 and Acrobat versions 9 and higher use a blue ribbon across the top of the document to indicate document authenticity and validity.

### *Document Validity*

**Valid Signature:** The document's contents have not been changed or altered in any way. Also, when the pop-up screen displays a message that the digital signature is valid it means that the author of the document is known to the certification authority and the person or institution represented by the digital signature is true and authentic.

**Invalid Signature:** The digital signature is not authentic, or the document has been altered. Sometimes the digital signature has been revoked for some reason, or it has expired. A document with an invalid display should be rejected.

**Author Unknown:** There are two possible meanings: the digital signature cannot be validated due to a disconnection to the internet, or the digital signature cannot be instantly validated via the internet. If this message is received make sure there is proper connection to the internet. If there is connection and the digital signature cannot be validated, reject this document.

*Additional Information*
A document that contains a digital signature can be instantly validated and will display a blue ribbon on the notification bar across the top of the Adobe Reader. On older versions of the Adobe reader, the blue ribbon will be displayed on a pop-up screen and in the lower left corner of the frame of the application. The blue ribbon symbol is your assurance that the digital signature is valid, authentic, and the contents of the document have not been altered.

*Note on Pop-up Screens*
To activate the pop-up screens in either Adobe Reader or Adobe Acrobat to view the status a document that has a digital signature (described above) open the application first, then open the document. Sometimes browsers will trigger Adobe Reader or Adobe Acrobat as a helper application, failing to activate the application's full functionality.

*For More Information*
You may contact the Stanford Center for Professional Development if you have additional questions about this digital signature, the authenticity of this document and the means by which you received this document.

E-mail: scpd-customerservice@stanford.edu

Key:
**S –** Satisfactory: A or B equivalent
**A –** Excellent
**B –** Good
**See Axess –** Grade available at http://axess.stanford.edu
**Audited Course –** Enrolled for video access only
**Grade Unmarked –** Course requirements not yet completed

To view a detailed explanation of the Record of Completion:
http://scpd.stanford.edu/admissions/additional-resources/forms-documents

COPY OF CERTIFIED PDF