



# CERTIFIED TRUST



SECURE  
PROGRAMMING

## SECURE PROGRAMMING: HOW TO MAKE YOUR SYSTEM SECURE

Secure programming is writing (web)applications in such a way that vulnerabilities which can be exploited by attackers, are avoided. Secure programming also means building security features like authentication and encryption in.

Security is not a feature that can be added when the application is finished. The nature of the threats must be understood and secure coding practices must be incorporated throughout designing and developing the product.

*Cybercrime activities like server attacks, digital bank robbery and data theft get more attention than ever in the news. Most of the attention appears to be focused on reactive measures “How do we repair the damage and our reputation?” instead of on preventive measures “How do we make our applications secure?”.*

*Although it is hard to measure, research reports indicate that building security in during development is worth the investment. Key in building secure software is education. If programmers do not understand the vulnerabilities in the software they are building, any additional investment in the building process is useless.*

EXIN's certification program tests the knowledge of and insight in the concept of Secure Programming and the ability to identify security threats and solutions.

The content is framework neutral to programming languages and vendors. It is based on the Lean principle that the sooner a failure is discovered, the less expensive the solution is.

### TARGET GROUP

The EXIN Secure Programming certification program is aimed at designers and developers of software and web applications who have an interest in delivering robust applications. The certification is also valuable for auditors and others responsible for the security of (web) applications.

#### Benefits for companies

- Resolve security issues before sensitive data of customers is at risk
- Get skilled programmers and software developers who can develop robust software and web applications
- Deliver reliable software and web applications to your customers, they will be satisfied and come back

#### Benefits for individuals

- Understanding security threats and counter measures
- The content is practical and directly applicable to the job
- Adding knowledge of secure programming practices to your software development skills
- Making yourself widely employable with this programming language neutral certification

## SECURE PROGRAMMING MODULE



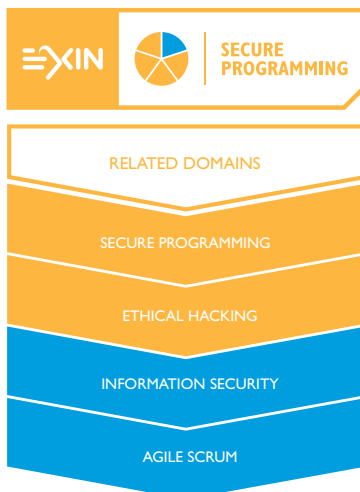
SECURE PROGRAMMING  
FOUNDATION  
e-CF Level e-2 / Professional

### EXIN Secure Programming Foundation

This module tests the knowledge of the candidate on the basic principles of secure programming. The subjects of this module are Authentication and Session Management; Handling User Input; Authorization; Configuration, Error Handling and Logging; Cryptography; and Secure Software Engineering.

For more information: [www.exin.com](http://www.exin.com)

## SECURE PROGRAMMING IN RELATION TO OTHER DOMAINS



The EXIN exam portfolio is mapped to the 40 different ICT competences, described in the international e-Competence Framework (e-CF).

In the EXIN portfolio, Certification in Ethical Hacking is part of the Testing domain, which is related to the Build Competence area of the e-CF. Certification in Ethical Hacking is also linked to the Manage area e-competences. Ethical Hacking is strongly complementary to Secure Programming, as the hacking tests the software that was programmed.

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