

„ISSECO Certified Professional for Secure Software Engineering (CPSSE)“

Seminar und Workshop, 4 Tage

Day 1

- 09:00** **Welcome and Introduction of Training**
Christoph Weinmann & Petra Barzin, Secorvo
- 09:30** **Introduction & Motivation**
- Why secure software is urgently needed? Course Overview
- Petra Barzin, Secorvo
- 10:15** **View of the Attacker**
- Point out the different skill levels, Modes of Hacking, Hacker Motive, Prozess of Hacking
- Kai Jendrian, Secorvo
- 11:00 Break
- 11:20** **View of the Customer**
- What Customers expect, Classify the security requirements, Risk determination, customer specific requirements
- Kai Jendrian, Secorvo
- 12:05** **Trust & Threat Models**
- Access control models, Trust Models, Threat Modeling and Identifying, Attacks classification
- Kai Jendrian, Secorvo
- 12:50 Questions & answers
- 13:00 Lunch
- 14:15** **Methodologies**
- Methodology for developing secure software, life cycle models, security practices, existing models
- Petra Barzin, Secorvo
- 15:45 Break
- 16:05** **Case Study**
- Deepen and expand the knowledge
- Petra Barzin & Kai Jendrian, Secorvo
- 17:35 Questions & answers
- 18:00 End of trainingday

Day 2

08:30 Introduction

Christoph Weinmann, Secorvo

08:35 Requirements Engineering

- The way to good requirements, security requirements

Volker Hammer, Secorvo

09:20 Secure Design

- Guidelines, general concepts, security patterns, Security architecture and design reviews

Dr. Safuat Hamdy, Secorvo

10:50 Break

11:10 Secure Coding

- Vulnerabilities, vulnerability patterns, coding practices, tools

Dr. Safuat Hamdy, Secorvo

12:40 Questions & answers

13:00 Lunch

14:15 Secure Testing

- Test cases, test methods, tools, reports

Dr. Safuat Hamdy, Secorvo

15:45 Break

16:05 Secure Deployment

- Release and deployment management, software installation, software activation, securing the target environment

Petra Barzin, Secorvo

16:50 Questions & answers

17:10 End of trainingday

Day 3**08:30 Introduction**

Christoph Weinmann, Secorvo

08:35 Security Response

- Security issues, security patches, success criteria, security response policies & process

Hans-Joachim Knobloch, Secorvo

09:20 Security Metrics

- The need for measuring security, limitation, categorization, developing, examples

Hans-Joachim Knobloch, Secorvo

10:05 Break

10:25 Code & Resource Protection

- Technical types of risks in the product, additional processural security measures, specific defense security requirements, license protection methods

Hans-Joachim Knobloch, Secorvo

11:10 Summary

Kai Jendrian, Secorvo

11:55 Questions & answers

12:15 Lunch

13:30 Practical Workshop

- Deepen the knowledge
- Security integration in the treatmill of daily software engineering

Kai Jendrian & Hans-Joachim Knobloch, Secorvo

15:10 Break

15:30 Practical Workshop

- Deepen the knowledge
- Security integration in the treatmill of daily software engineering

Kai Jendrian & Hans-Joachim Knobloch, Secorvo

16:50 Questions & answers

17:10 End of training

Day 4

- 08:30** **Practical Workshop**
- Deepen the knowledge
 - Security integration in the treatmill of daily software engineering
- Safuat Hamdy & Hans-Joachim Knobloch, Secorvo
- 10:10 Break
- 10:30** **Practical Workshop**
- Safuat Hamdy & Hans-Joachim Knobloch, Secorvo
- 12:00 Lunch
- 13:15** **Practical Workshop**
- Deepen the knowledge
 - Security integration in the treatmill of daily software engineering
- Safuat Hamdy & Hans-Joachim Knobloch, Secorvo
- 14:45 Break
- 14:55** **Practical Workshop**
- Safuat Hamdy & Hans-Joachim Knobloch, Secorvo
- 16:25 Discussion
- 16:45 End of training

Day 5 - Examination by iSQI

- 9:00** **Welcome and hand Exam Papers out**
- 9:15** **Examination**
- 10:45** **End of Examination**