

Training on Secure Software Development Lifecycle Practices Professional Certification Program C-DAC, Hyderabad and IIT Bhilai

Conduction Mode : Online

Date : April 14 - 25, 2025 (Monday-Friday, Except Public Holidays)

Timings : 10:00 AM to 12:00 PM & 2.30 PM to 4.30 PM

Registration Link : <https://forms.gle/RLucTUV4yVF5JLT36>

Instruction Details :

- Resource persons will deliver Theory & Demo
- Participants have to execute the lab exercise on their laptops during training program
- Manuals will be provided for the installation of pre-requisites
- Please read the training requirements below for registration fee and program format

List of Topics

Session	Module Name	Topic Name	Duration
Day 1			
Morning Session			
Session 1	Introduction to Secure Software Development Lifecycle	Need for Secure SDLC	30 min
Session 2		CIAAA Defence in Depth and Resiliency Cryptography and Security Metrics	45 min
Session 3		Secure Software Requirements	Define Security Requirements
Afternoon Session			
Lab			2 hours

Day 2			
Morning Session			
Session 1	Secure Software Requirements	Data Classification and Data Privacy Requirements	1 hour 30 minutes
Session 2	Secure Software Requirements	Security Requirements Traceability Matrix	30 minutes
Afternoon Session			
Lab			2 hours
Day 3			
Morning Session			
Session 1	Secure Software Design Considerations and Principles	Secure Software Design Considerations Secure Software Architecture Principles Secure Software Design Principles	1 hour
Session 2		Threat Analysis and Attack Surface Evaluation Threat Modelling Methodologies	1 hour
Afternoon Session			
Lab			2 hours
Day 4			
Morning Session			
Session 1	Secure Software Design Considerations and Principles	Software Composition Analysis	1 hour
Session 2	Secure Software Implementation	Secure Coding Guidelines C++	1 hour
Afternoon Session			
Lab			2 hours
Day 5			
Morning Session			

Session 1	Secure Software Implementation	Secure Coding Guidelines JavaScript	1 hour
Session 2		Secure Coding Guidelines Java	1 hour
Afternoon Session			
Lab			2 hours
Day 6			
Morning Session			
Session 1	Secure Software Implementation	Secure Coding Guidelines Python	45 minutes
Session 2		Web Security Configuration	45 minutes
Session 3		Web Application Firewall (WAF)	30 minutes
Afternoon Session			
Lab			2 hours
Day 7			
Morning Session			
Session 1	Secure Software Implementation	REST API Security	40 min
Session 2		OWASP Top 10 Vulnerabilities	40 mins
Session 3		Code Review (SAST&DAST) & Security Testing	40 mins
Afternoon Session			
Lab			2 hours
Day 8			
Morning Session			
Session 1	Secure Software Implementation	Docker Architecture Docker Commands Docker Swarm Network Building Docker Images Docker Security	2 hours
Afternoon Session			
Lab			2 hours

Day 9			
Morning Session			
Session 1	Operations and Maintenance	Continuous Integration/Continuous Deployment Tools	60 mins
Session 2		Secure Storage	60 mins
Doubts Clarification			

Training Requirements:

1. Participants should be well-versed in the SDLC lifecycle phases. Participants having a minimum of one year working experience in software development are preferred for nominations and having knowledge in the following programming languages HTML, JavaScript, and Python programming are desirable.
2. Participants may use their own laptop with Ubuntu 20.04 Operating System for carrying out lab exercises during the training program. Before the commencement of the training program, participants will be provided with an installation manual for prerequisites.
3. During theory and demo sessions open-source software will be used to cover the session topics and participants have to submit lab assignments and a case study after the training program. In a few topics, demos will be given based on trial versions or subscription-based commercial software.
4. Participants will be encouraged to participate in interactive sessions to clarify doubts after the training program.
5. Participants will be given online access only to the course material and virtual lab environment for 3 months and they may opt to appear for the certification examination as and when the exam is scheduled.
6. The training program fee is Rs 5900/- (including taxes) and is non-refundable. For the certification examination, a separate fee of Rs.1000/- (including taxes) has to be paid during examination registration.
7. **Discount Price (Valid up to 11th April 2025)**
 - a. The training program fee is Rs 4720/- (including taxes) for participants from Government, Industry and is non-refundable. For the certification examination, a separate fee of Rs.1000/- (including taxes) has to be paid during examination registration.
 - b. For participants from **Academic Institutes** and **Startups only**, the registration fee for training is Rs 3540/-(including taxes) and is non refundable. No fee for certification examination.

8. The training program fee has to be paid as per the below particulars (Note:- Fee will be refunded only if the training program is cancelled due to administrative reasons)

Name of the Organization	Centre for Development of Advanced Computing(C-DAC)
Bank Name	Bank of India
Branch	Shamshabad, Hyderabad
Account Number	566310110004393
IFSC Code	BKID0005663

9. Participants attending the training program and those who submit the lab exercises and assignments will be considered to have participated in the training program. Such participants only will be given a Participation Certificate.
10. A certification examination (NOT included in the training program) would be conducted by CDAC Hyderabad and IIT Bhilai on designated days and locations or online periodically. The participants who have registered for the certification examination must attain a minimum of 65% (with 30% weightage for assignments and case studies and 70% weightage for the certification examination). Participants who register and fulfill the above criteria will be given a Professional Certificate.

For more details about the program format please visit <https://ssdlcp.in/page.php?id=3>

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