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CASE.NET

Exam Blueprint
(Version 1)

Domain	Objectives/ Sub-Domain	Weightage
1. Understanding Application Security, Threats, and Attacks	 Understand the need and benefits of application security 	8%
	 Demonstrate the understanding of common application-level attacks 	
	 Explain the causes of application-level vulnerabilities 	
	 Explain various components of comprehensive application security 	
	 Explain the need and advantages of integrating security in Software Development Life Cycle (SDLC) 	
	 Differentiate functional vs security activities in SDLC 	
	 Explain Microsoft Security Development Lifecycle (SDL) 	
	 Demonstrate the understanding of various software security reference standards, models, and frameworks 	
2. Security Requirements Gathering	 Understand the importance of gathering security requirements 	8%
	 Explain Security Requirement Engineering (SRE) and its phases 	
	 Demonstrate the understanding of Abuse Cases and Abuse Case Modeling 	
	 Demonstrate the understanding of Security Use Cases and Security Use Case Modeling 	
	 Demonstrate the understanding of Abuser and Security Stories 	
	 Explain Security Quality Requirements Engineering (SQUARE) Model 	
	 Explain Operationally Critical Threat, Asset, and Vulnerability Evaluation (OCTAVE) Model 	
3. Secure Application Design and Architecture	 Understand the importance of secure application design 	10%
	 Explain various secure design principles Demonstrate the understanding of threat modeling 	
	Explain threat modeling process	
	 Explain STRIDE and DREAD Model 	
	 Demonstrate the understanding of Secure Application Architecture Design 	

Domain	Objectives/ Sub-Domain	Weightage
4. Secure Coding Practices for Input Validation	 Understand the importance of robust input validation 	18%
	 Demonstrate the understanding of secure input validation techniques in Web Forms, ASP.NET Core, and MVC 	
	 Demonstrate the understanding of defensive coding techniques against SQL Injection attacks 	
	 Demonstrate the understanding of defensive coding techniques against XSS attacks 	
	 Demonstrate the understanding of defensive coding techniques against Parameter Tampering attacks 	
	 Demonstrate the understanding of defensive coding techniques against Directory Traversal attacks 	
	 Demonstrate the understanding of defensive coding techniques against Open Redirect vulnerabilities 	
5. Secure Coding Practices for Authentication and Authorization	 Understand authentication and authorization issues 	16%
	 Explain authentication and authorization in Web Forms 	
	 Explain authentication and authorization in ASP.NET Core 	
	 Explain authentication and authorization in MVC 	
	 Demonstrate the understanding of authentication and authorization techniques in Web Forms 	
	 Demonstrate the understanding of authentication and authorization techniques in ASP.NET Core 	
	 Demonstrate the understanding of authentication and authorization techniques in MVC 	
6. Secure Coding Practices for	Understand cryptography in .NET	12%
Cryptography	 Explain symmetric encryption 	
	 Demonstrate the understanding of defensive coding practices using symmetric encryption 	
	Explain asymmetric encryption	

Domain	Objectives/ Sub-Domain	Weightage
	 Demonstrate the understanding of defensive coding practices using asymmetric encryption 	
	Explain Hashing	
	Explain Digital Signatures	
	 Explain Digital Certificates 	
	 Demonstrate the understanding of ASP.NET Core-specific secure cryptography practices 	
7. Secure Coding Practices for	 Understand session management concepts 	4%
Session Management	 Explain various session management techniques 	
	 Demonstrate the understanding of defensive coding practices against session hijacking attacks 	
	 Demonstrate the understanding of defensive coding practices against session replay and session fixation attacks 	
	 Demonstrate the understanding of techniques to prevent sessions from cross-site scripting, client-side scripts, and CSRF attacks 	
	 Demonstrate the understanding of techniques to prevent session attacks on ViewState 	
	 Demonstrate the understanding of ASP.NET Core specific secure session management techniques 	
8. Secure Coding Practices for Error Handling	 Understand error and exception handling concepts 	10%
	 Explain the need of secure exception handling 	
	 Demonstrate the understanding of defensive coding practices against information disclosure 	
	 Demonstrate the understanding of defensive coding practices against improper error handling 	
	 Demonstrate the understanding of secure error handling practices in ASP.NET Core 	
	 Explain secure auditing and logging best practices 	
9. Static and Dynamic Application Security Testing (SAST & DAST)	 Explain Static Application Security Testing (SAST) concepts 	6%
	 Demonstrate the understanding of manual secure code review techniques for common vulnerabilities 	

CASE .NET Exam Blueprint

Domain	Objectives/ Sub-Domain	Weightage
	 Explain Dynamic Application Security Testing 	
	 Demonstrate the knowledge of automated application vulnerability scanning tools to perform DAST 	
	 Demonstrate the knowledge of proxy-based security testing tools to perform DAST 	
10. Secure Deployment and Maintenance	 Understand the importance of secure deployment 	8%
	 Explain security practices at host level 	
	 Explain security practices at network level 	
	 Explain security practices at application level 	
	 Explain security practices at IIS level 	
	 Explain security practices at .NET level 	
	 Explain security practices at SQL Server level 	
	 Demonstrate the knowledge of security maintenance and monitoring activities 	