**CyberCX**

# Secure Mobile Application Development Training

## Develop secure mobile applications to protect corporate and client data.

Mobile devices, whether in the form of smart phones or tablets, are now ubiquitous. For many organisations, interacting with clients is best achieved through mobile applications. Additionally, many people rely on mobile applications for work-related purposes. With mobile applications collecting and transmitting significant amounts of data, they are increasingly attractive targets for hackers. Being vulnerable to range of attack vectors, including malware, it's essential your development team embeds security features at every stage of the development pipeline to protect valuable corporate and client data.

### Who should attend?

Mobile Developers and Engineers

### Delivery mode

In person

### Duration

1 x Day

## About this training module

Mobile applications are essential tools for many organisations. Whether staff use them for work-related purposes, or you use them to interact with clients, it's essential to ensure the data they collect and transmit is secure. With developers often under pressure to rapidly deliver mobile applications, functionality often takes precedence over security. Yet this can result in mobile applications that are prone to vulnerabilities, putting your organisation and customers at risk.

### Benefits:

This training course will enable participants to:

▷ Get into the hackermindset

  Understand the mobile application threat landscape

▷ Discover mobile platform security features

  Improve current and future mobile application security

▷ Learn to develop mobile applications efficiently without compromising security

In this one-day live and interactive workshop, your organisation's developers will learn ways to embed cyber security considerations throughout the mobile application development pipeline. By adopting a SHIFTLEFT approach, you'll be able to efficiently develop secure mobile applications and prevent costly data breaches.

Our Secure Mobile Application Development training covers the following topics:

**01**

**Development options**

- Toolchains
- Compilation
- Cross platform development
- Native and high-level code
- Target platform security

**02**

**Device management**

- Root detection
- Anti-tampering

**03**

**Secure storage**

- Encryption issues
- Keystore / Keychain
- File system hierarchy

**04**

**Authentication / Authorisation**

- Password based
- SSO
- Oauth
- Mutual SSL/TLS

**05**

**Network and transport layer**

- Mutual SSL/TLS authentication
- Private APNs
- SSL/TLS configuration and management
- Certificate pinning
- HTTP Proxy

**06**

**Hardware integrations**

- On device subsystems
- External/Third party devices
- Peer-to-peer communications

**07**

**Other**

- Caching
- Secure logging
- Obfuscation
- Permission usage
- 3rd party libraries
- Sandboxing
- Designing secure UIs
- Embedding secure process in the SDLC

## Why Education and Training with CyberCX?

▷ Expertise delivering context-rich training and education across industry, higher education, government, military and intelligence

▷ Dedicated program managers to coordinate planning, training activities and improvement tracking

▷ Solutions purpose-built to deliver results by helping acquire, retain, develop and enhance knowledge, skills and understanding

▷ Highly flexible options and delivery methods designed to deliver the right training in the right way

▷ Highly qualified and globally recognised cyber security trainers and experts

## About CyberCX

CyberCX is Australia's leading independent cyber security services company.

CyberCX delivers end-to-end cyber security services and Australia's best cyber security talent with the most comprehensive range of cyber security services to business, enterprise and government.

**Contact us to find out how CyberCX can boost the cyber security skills of your entire organisation.**

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