



Access Control Specialist Level One: Course Five – Biometrics

Course Description

We included a high-level overview of the most popular biometric technologies to give you solid knowledge on this challenging subject. Fingerprint, hand geometry, iris recognition, facial recognition and other choices are explained. The difference between passive and active biometric systems is also covered.

Biometric products can be used in a stand-alone mode, connected to a central database or employ contactless smartcards to carry the bio data for the cardholder. Advantages and liabilities of each technology and each method of deployment are covered in an informative and unbiased manner. Biometrics will no longer be a mystery.

Course Objectives:

At the end of this course the student will be able to:

- Define biometrics encoding and the biometrics process.
- Understand biometrics compression and how it applies to mutual authentication.
- Explain common biometric methods including fingerprint, facial recognition, eye scans, palm recognition, voice verification, and signature verification.
- Clarify the applications for biometric devices such as in access control, border control, cargo, financial applications, and entitlement.

Course Outline

- Introduction
- Biometrics
 - Objectives
 - Encoding
 - Passive/Active Biometrics
 - Biometric Process
 - Biometric Comparison
 - Username / Password
 - Smartcard with Mutual Authentication
 - Biometric Smartcard
 - Common Biometric Methods
 - Fingerprints
 - Facial Recognition
 - Eye Scans
 - Palm/Hand Verification
 - Voice Verification
 - Signature Verification
 - Accuracy Testing
 - Applications
 - Access Control
 - Border Control
 - Cargo
 - Financial
 - Entitlement
- Conclusion