

## ***Course Overview***

Securing identity is vital to the success of any organisation. With the introduction of Biometrics it is crucial to understand how the technology provides an enhanced security layer to systems. You will understand the current threats and issues that surround security, and the benefits of utilising Biometrics to be able to positively identify individuals.

The course will provide a comprehensive understanding of the different Biometric technologies and the key considerations for implementing them within a security system. The course will also provide an overview of current Government and private sector applications.

## ***Who Should Attend***

The Essentials of Biometrics 101 course is a one day introductory course helpful for managers, senior management and anyone who needs a general understanding of Biometrics.

## ***Interactive Session***

Interactive in class workshops offer valuable insight into different Biometric technologies while providing an opportunity to see live Biometric systems in action. These demonstrations help to enforce the course and help students understand Biometric technologies with hands on experience.

## ***Course Content***

- Overview of Biometrics and Identity Management
  - Current issues and threats
  - The need to identify individuals
  - The cost and impact of identity theft
  - Reducing risk by enhancing identity security
  - Biometrics the answer?
  - Emerging Biometric applications
  - Biometric market direction and current market drivers
- Biometrics the Technology
  - The true definition of Biometrics
  - A summary of the history of Biometrics
  - How Biometrics has developed in today's society
  - Biometric technologies in physiological and behavioural types
  - A description and overview of principal Biometric types including;
    - Retinal Scanning
    - Iris
    - Facial
    - Hand Geometry
    - Signature
    - Fingerprint
  - Potential concerns of vulnerability
  - How Biometrics can be used with associated technologies e.g. PKI
  - Technologies that can be combined with Biometrics
  - The definition and use of multimodal Biometrics
  - Key multimodal applications
  - An explanation of verification and identification
  - The key requirements to consider when choosing a Biometric technology
- Key Considerations for Implementing Biometrics
  - The generic structure for a Biometrics system
  - Functionality of a System
  - Requirements Capture
  - How a Biometric System Works
  - Key Considerations
  - Vocabulary
  - False Accept and Reject Rate
  - Failure to Acquire and Enrol
  - Biometric Benefits
  - Performance Factors
  - Privacy Issues
  - The Data Protection Act Principles and Biometrics
  - Biometrics Standards
- Applications
  - Global Government Applications
  - Secure Establishments
  - Biometrics Benefits
  - E-passports
  - Door Access and Time Attendance Systems
  - Other applications
- Summary
  - Understanding requirements
  - Considering the Human factors
  - Identifying correct biometric for the application
  - System design and architecture considerations
  - Project Management
  - Benefits of implementing a Biometric system