*Cryptography*

## Description

This training will help you to understand cryptography, how it fits into an information system and when to use it. As an information technology professional, you have to be aware and educate your users about the importance of keeping certain data confidential, especially personal information or strategic data of your organization. It is also important to master the different concepts to implement the technology that will help you to protect the information, encrypt it when transmitting over the Internet or in your local network. You must also ensure that the encryption method is still adequate with the increase of the processing power that can "breaks" the encryption keys. A few years ago, a WEP key to protect wireless communications was enough, now you have to use a WPA2 key to be sufficiently protected. Cryptography evolves over time and it is important to stay up to date in this area.

## Objectives

In this training, you will understand how encryption works and identify the best methods to ensure the confidentiality and integrity of information at the storage level or when transmitting over the network. Upon completion of this training you will be able to:

- Understand the basic concepts of encryption
- Distinguish symmetric encryption vs asymmetric encryption
- Identify the risks related to encryption
- Use the correct encryption method as needed
- Allow you to convince your organization to invest in security

## Content

This training will cover those topics:

- Concepts and definitions
- Crytpography's history
- Cryptographic methods
- Encryption systems
- Encryption algorithms
- Crypanalysis and targets
- Implement cryptography

Practical cases will be used to help you to assimilate the different topics presented in this training and to implement those within your organization.

## Audience

This training is intended primarily for someone who's working in cryptography or anyone else who is involved in.

## Duration

A half day

This training can be customized to your organization to give you the best ROI.