

Training and Careers in Cyber Security

Fred Piper

Codes & Ciphers Ltd
12 Duncan Road, Richmond
Surrey, TW9 2JD
Fred.piper@codesandciphers.net

Royal Holloway, University of London
Egham Hill, Egham
Surrey TW20 0EX
f.piper@rhul.ac.uk
www.isg.rhul.ac.uk

UK Cyber Security Strategy

- A key objective:

The UK is to have the cross-cutting knowledge, skills and capability it needs to underpin all cyber security objectives

What a Difference a Decade Makes (1)

THEN (10 to 15 years ago)

- Little provision of cyber security training, education or career progression
 - A few dedicated university MSc's
 - ISC² and SANS qualification
 - A few training course providers (Zergo, Insight Consulting et al)
 - No career path

What a Difference a Decade Makes (2)

NOW

- So many activities it is difficult to keep track
 - School awareness programmes
 - Certified training courses/providers
 - Career paths
 - Institute of Information Security Professionals

An Important Change in Attitude

- It is now widely accepted that cyber security is not just a technology issue
- The importance of 'human factors' is recognised

Some Players in the Current Cyber Security Careers Environment (1)

- Institute of Information Security Professionals (IISP)
- GCHQ, BIS, EPSRC
 - Academic – government – industry – collaboration
 - Academic centres of excellence
 - Research Institutes
 - Certified Master's degrees in Cyber Security
- Council of Professors and Heads of Computing (CPHC)

Some Players in the Current Cyber Security Careers Environment (2)

- (ISC)² and SANS
 - Cyber Security Challenge
- e-skills UK and Tech Partnership
 - Higher apprenticeships in Cyber Security
 - Learning pathways
- CREST
 - Inspired – careers
- Information Assurance Advisory Council (IAAC)
- Cyber champions

Inspired Careers

- Information Hub
 - Developed with support from BIS and CREST
- Aimed at those who want careers in cyber security
 - Straight from education
 - From other industries
 - Already in the industry but want to further their careers
- Explains roles, what is needed and how to get it
(Excellent website www.inspiredcareers.org)

Inspired Careers Levels

- Trainee/junior
- Practitioner
- Senior Practitioner
- Principal
- Lead (industry recognised)

Summary

- Good time to consider a career in cyber security
- Advice, training and opportunities all available