

## The Profession

### Understanding careers and professionalism in cyber security

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## IAAC — Information Assurance Advisory Council



- The IAAC mission is to advance Information Assurance (IA) to ensure that the UK's Information Society has a robust, resilient and secure foundation
- IAAC is engaged in the development of policy recommendations to government and corporate leaders at the highest level
- IAAC's Sponsors and Members comprise leading commercial end-users, government policy makers and distinguished academics
- <https://www.iaac.org.uk/>



- The IISP Mission is to be the authoritative body for information security professionals
- The principal objective is to advance the professionalism of information security practitioners and thereby the professionalism of the industry as a whole
- Become a universally accepted focal point for the profession
- To act as an accreditation authority for the industry
- <https://www.iisp.org>

- Project aimed at law enforcement professionals who operate at the heart of cyber/digital investigations to achieve professional status as well as an understanding of the career pathways available to them within their field of expertise.
- Includes police organisations and public sector investigative teams who seek to pursue cyber digital criminals through to a successful prosecution.
- <http://link.ncalt.com/College/CDCP/#/page/1>



## Definition

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A paid occupation, especially one that involves prolonged training and a formal qualification'. Middle English... via Old French from Latin... from profiteri 'declare publicly'.

[It] derives from the notion of an occupation that one 'professes' to be skilled in.'

Source: Oxford English Dictionary

## Context

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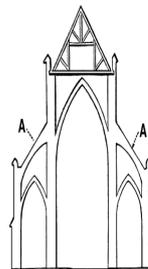
- Public debate suggests that Cyber Security needs to be recognised as a profession
- Not solely about technical issues, but also ethical and human behaviours and interactions
- Ensuring adequate protections from the citizen to corporates and government is an urgent problem
- Skills shortage

## A Cyber Security Profession?

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- Cyber Security “professionals” come from many disciplines – e.g. IT, Engineering, Business Management, Audit, etc.
- Develop Cyber Security professionals from scratch as well as re-training those from other professions.
- Common usage of the term “cyber security professionals” covers a wide range of disciplines
- Similar issues within the embryonic Cyber Digital Investigation Profession – job families

## What should a Cyber Security Profession look like?



## Conclusions and Recommendations

- Cyber Security is a “Profession of Professions”
- There should be a lead Professional Body for Cyber Security, working closely with other relevant professional bodies
- Cyber Security professionals may need to be a member of more than one professional body
- All professional bodies should align with the principles set out by Lord Benson
- An underpinning Body of Knowledge and entry qualifications into the profession need to be developed
- The technical focus of Cyber Security belies the full breadth of roles and competencies involved
- Need to encourage Diversity

## Summary of Lord Benson’s Principles 1992

- Profession controlled by a Governing Body which directs the professional behaviour of its members
- Adequate standards of training and professional competence as a condition of entry; training and education shall continue through the member’s professional life
- Ethical rules and professional standards; disciplinary action for non-compliance

## Where are we?



- Application by the IISP for appointment as the Chartered Institute for Cyber Security under consideration by the Privy Council
- IISP working with IAAC, IET, BCS, CREST, ISACA and others to further define the profession
- Work on a Cyber Security Body of Knowledge in progress (NCSC and IISP); IISP has developed a Knowledge Framework
- NCSC has accredited a number of degree programmes in Cyber Security
- NCSC, CREST, IISP (and others) have been working with The Tech Partnership to develop Cyber Security apprenticeships and degree apprenticeships
- IISP working with CoP on Institute of Cyber Digital Investigation Professionals (ICDIP). Target- late 2018

QUESTIONS?

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