

CyBOK

The Cyber Security
Body of Knowledge

Mappings of University
and Professional Training
Programmes to CyBOK



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Introduction

This booklet includes mappings of a number of education and training programmes: postgraduate degrees at higher education institutions certified by the National Cyber Security Centre (NCSC), and professional certification programmes. The spider charts and bar charts indicate the breadth and depth of coverage of various CyBOK Knowledge Areas (KAs) in CyBOK 1.0 (with the addition of a 20th KA on Formal Methods for Security).

The purpose of the booklet is to show how different programmes contrast. The mappings enable:

- **Employers** to identify if the students from a programme or certification will be well-placed to meet the knowledge requirements of a particular role; and
- **Learners** to identify which programme or certification may best suit their learning and career needs.

The mappings for university programmes are provided by the relevant certified degrees which were reviewed by an NCSC convened certification panel. The mappings of professional certifications were conducted by the CyBOK team and full datasets are available on the CyBOK website for review and further analysis.



Mapping framework

The mapping framework requires a list of concepts – typically in the form of key words or phrases (KWOPs) that represent the concepts covered in the programme material – that are to be mapped on to CyBOK.

A user starts by looking up a KWOP using the CyBOK Mapping Reference and any other additional look up material that may have been developed in order to identify the relevant KA (or Introduction to CyBOK) where the content may reside. The Knowledge Tree is then studied to identify the relevant concept within CyBOK. N.B. the purpose here is not to do an exact string matching but to identify the topic or sub-topic within a knowledge tree to which a KWOP maps. If a suitable node cannot be found within the Knowledge Tree, then the full text of the CyBOK Introduction or KA is studied to identify the mapping.

If the CyBOK mapping reference cannot identify a suitable Knowledge Tree, then the tabular representation is used to identify the most suitable KA or KAs and the relevant Knowledge Trees and KA content are studied to identify the mapping.

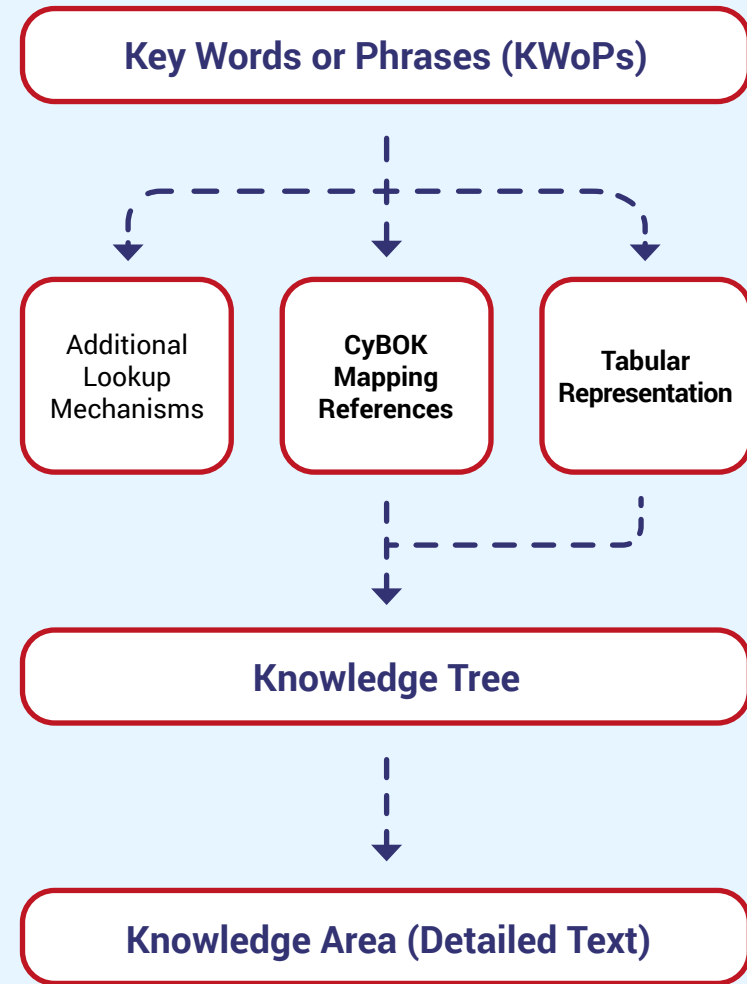


Figure 1: The General Mapping Framework

Mappings of University and Professional Training Programmes

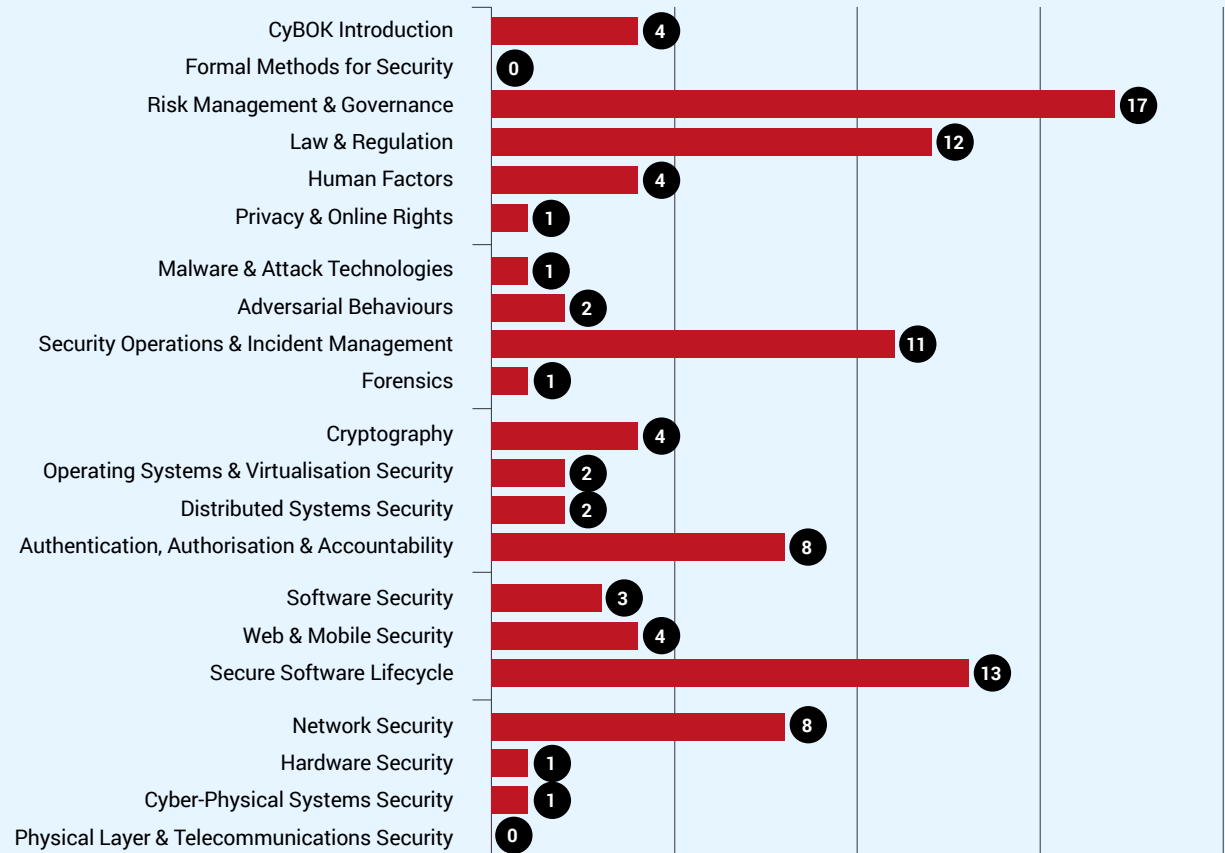
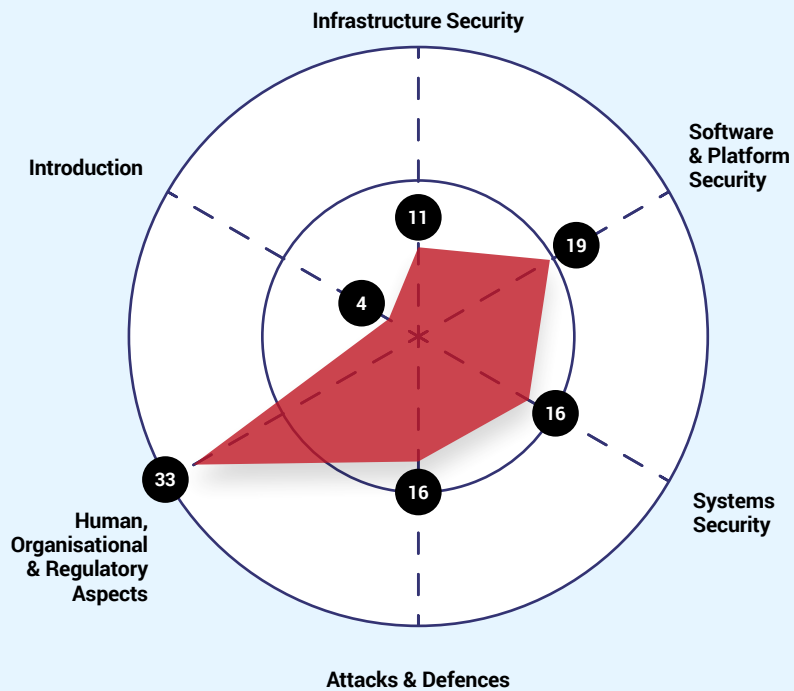
The mappings enable one to establish how cyber security coverage in professional certification programmes and NCSC certified degrees maps to CyBOK.

The spider charts show a bird's-eye view of coverage across broad CyBOK categories, and the bar charts show a deeper view on a per-KA basis.

Mapping can also be undertaken on a finer-grained level, for example on particular knowledge domains covered by certifications. An exemplar mapping of CISSP and its method can be found [here](#).

CISSP

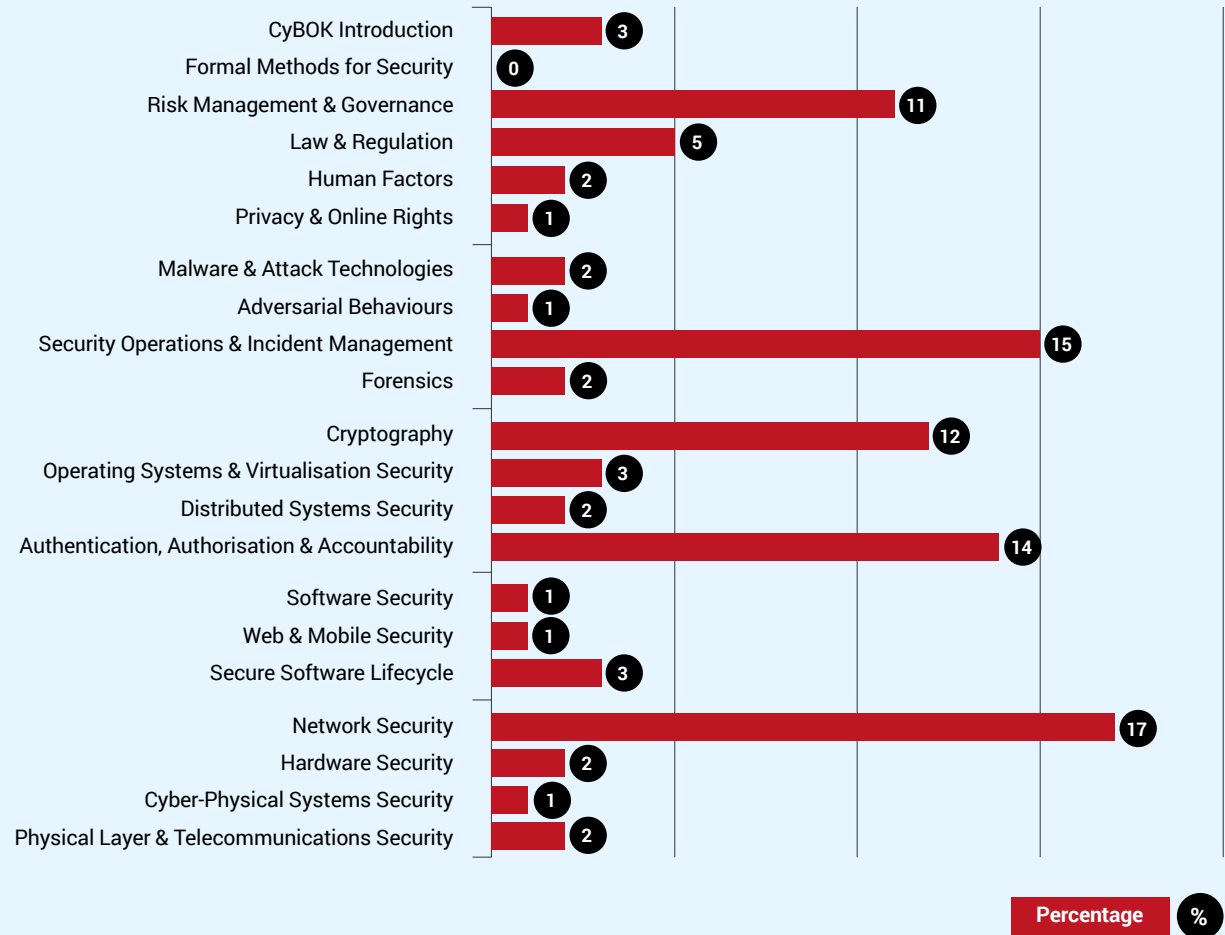
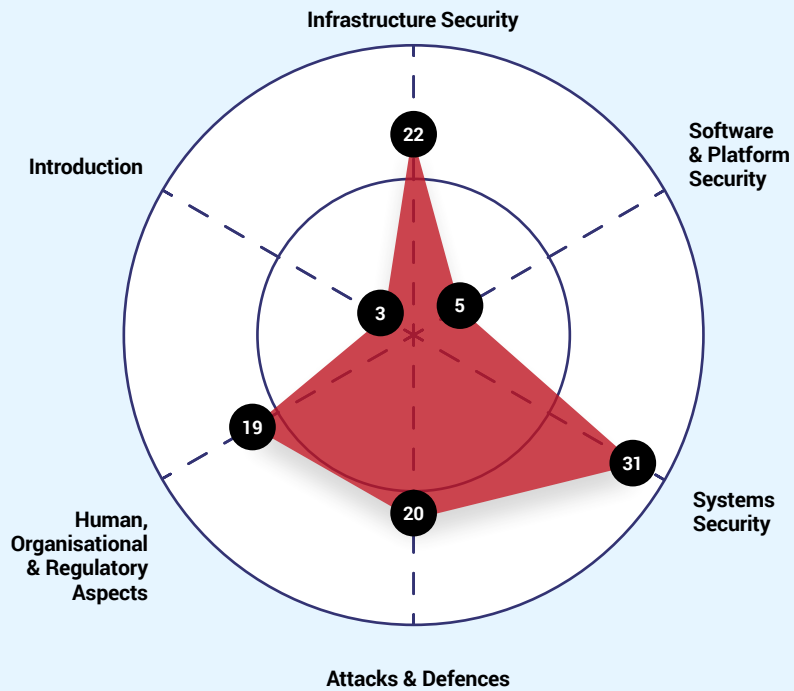
Certified Information Systems Security Professional - (ISC)²



Percentage %

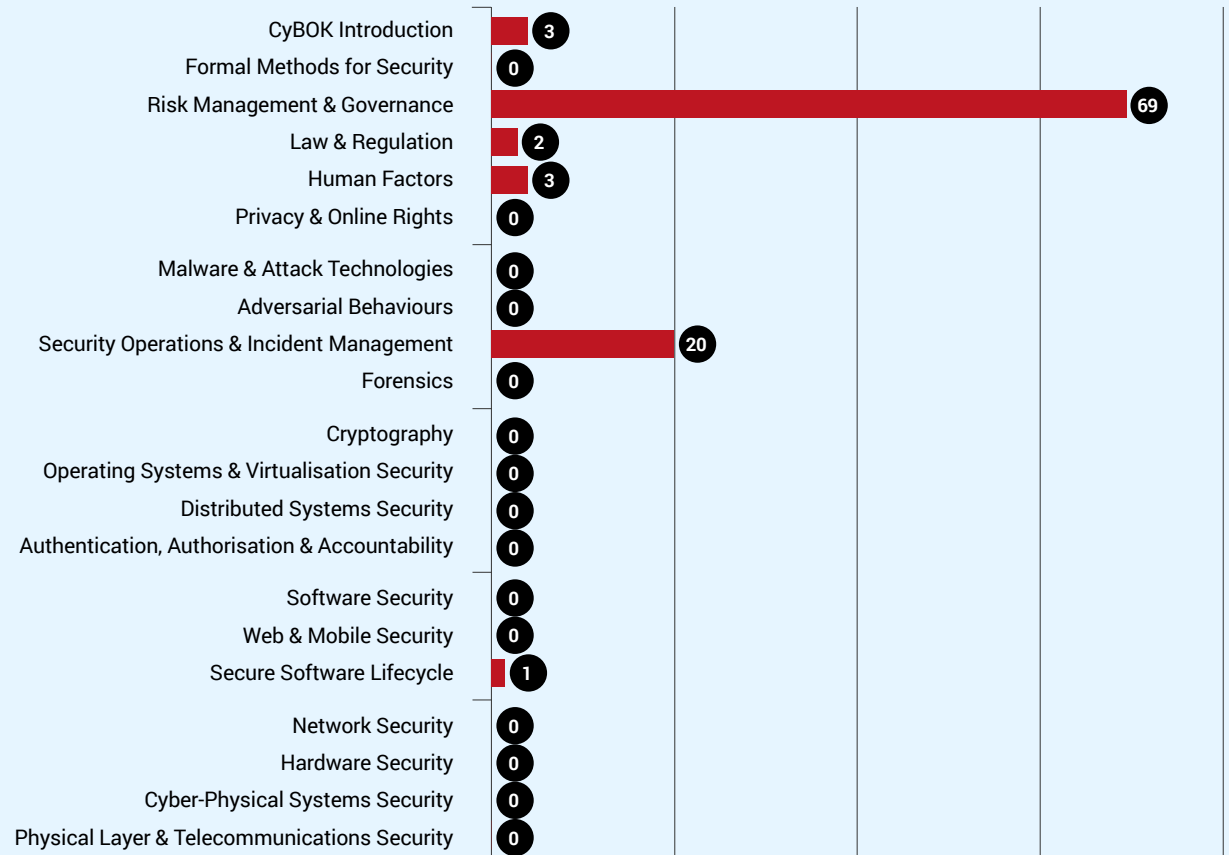
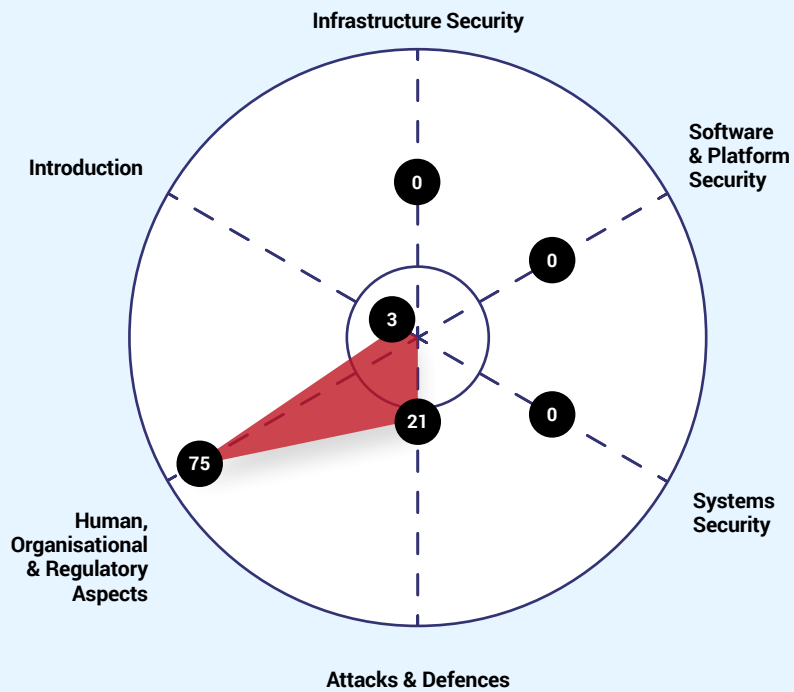
SSCP

Systems Security Certified Practitioner - (ISC)²



CISM

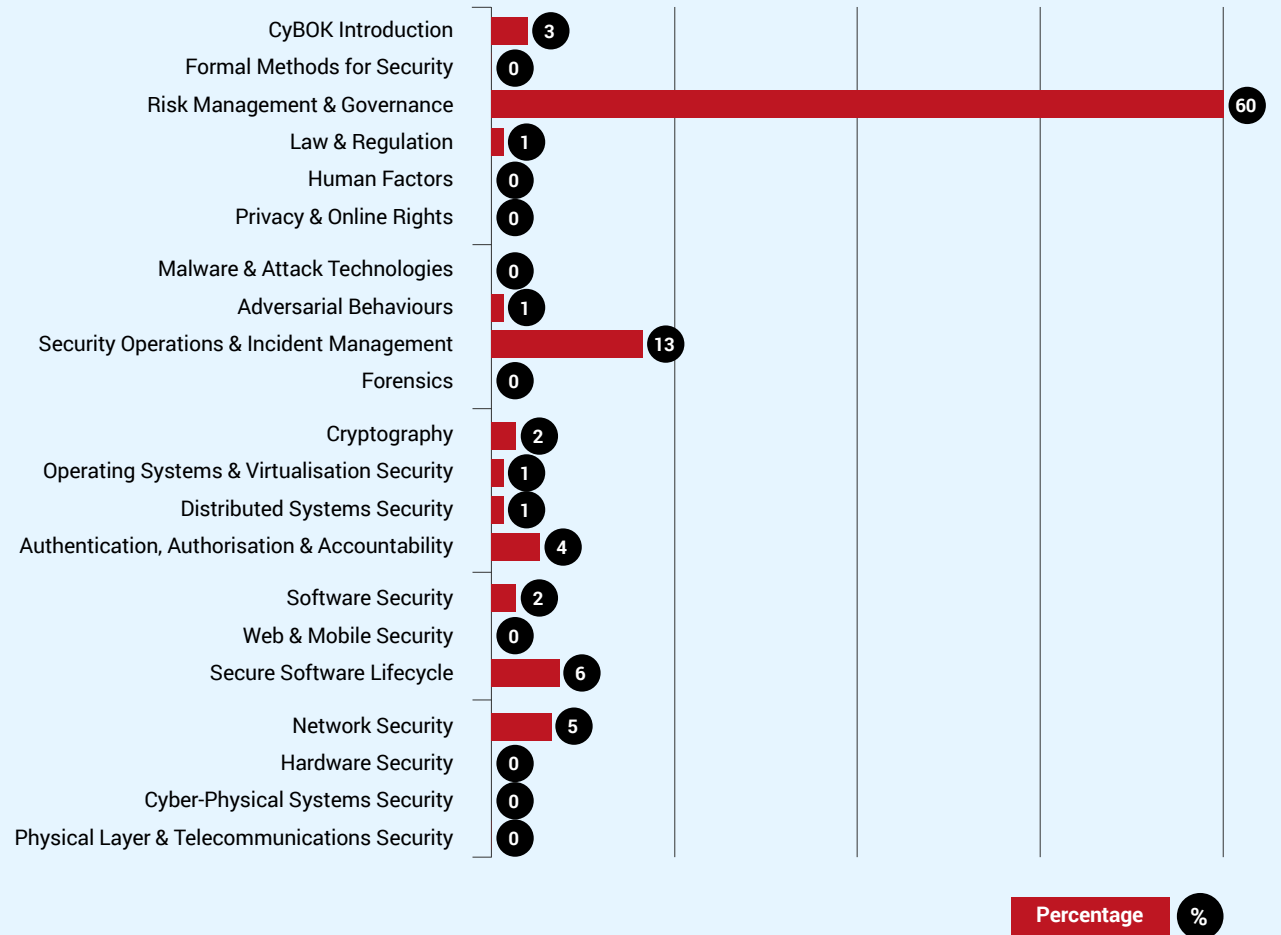
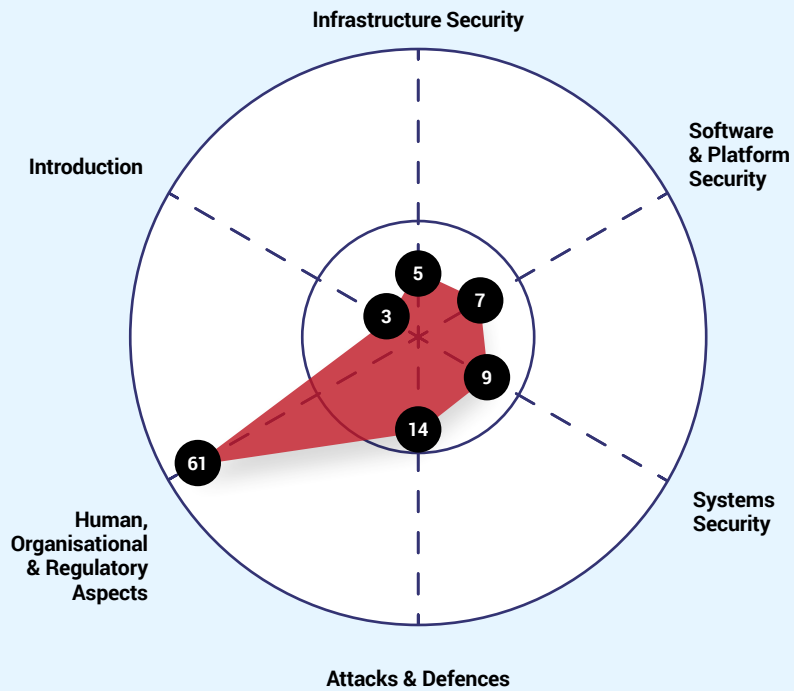
Certified Information Security Manager - ISACA



Percentage %

CRISC

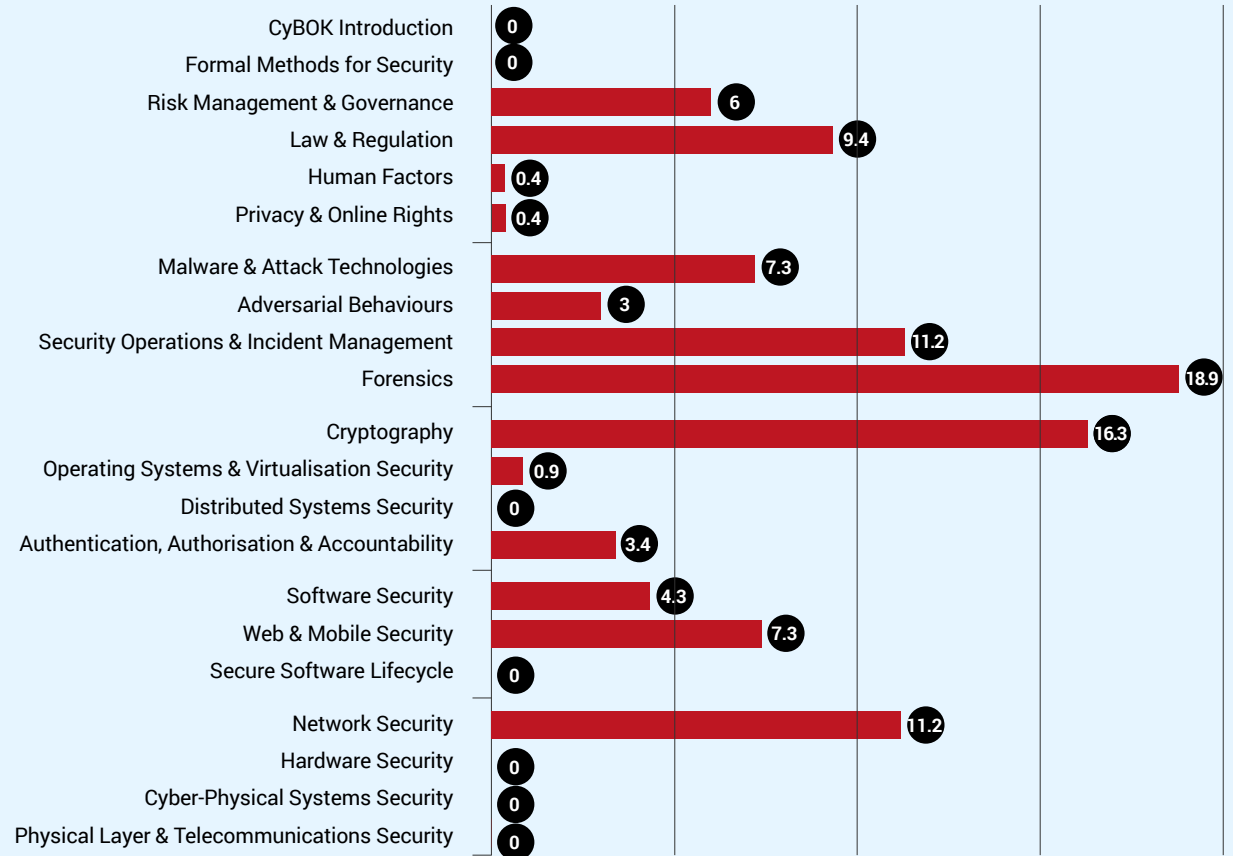
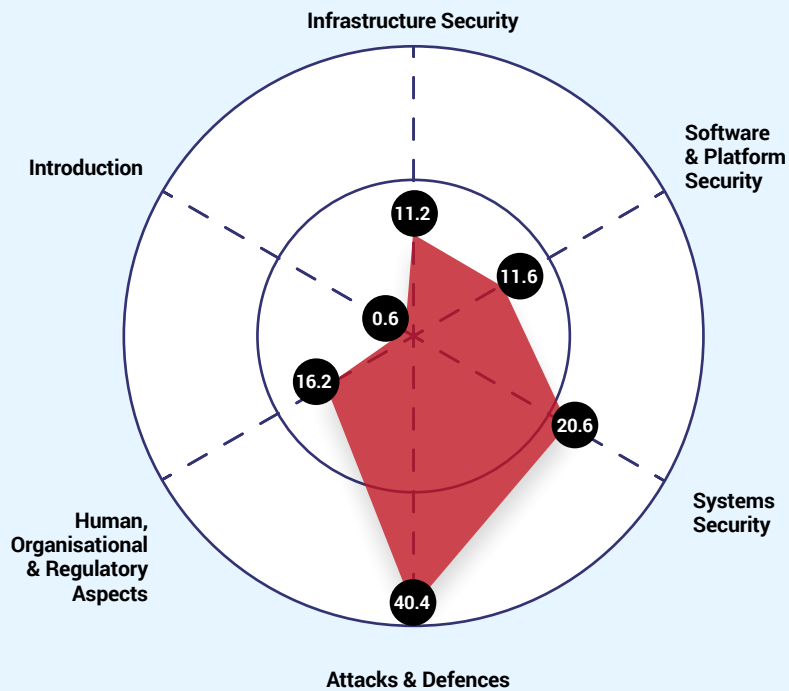
Certified in Risk and Information Systems Control - ISACA



Edinburgh Napier University

MSc Advanced Security and Digital Forensics

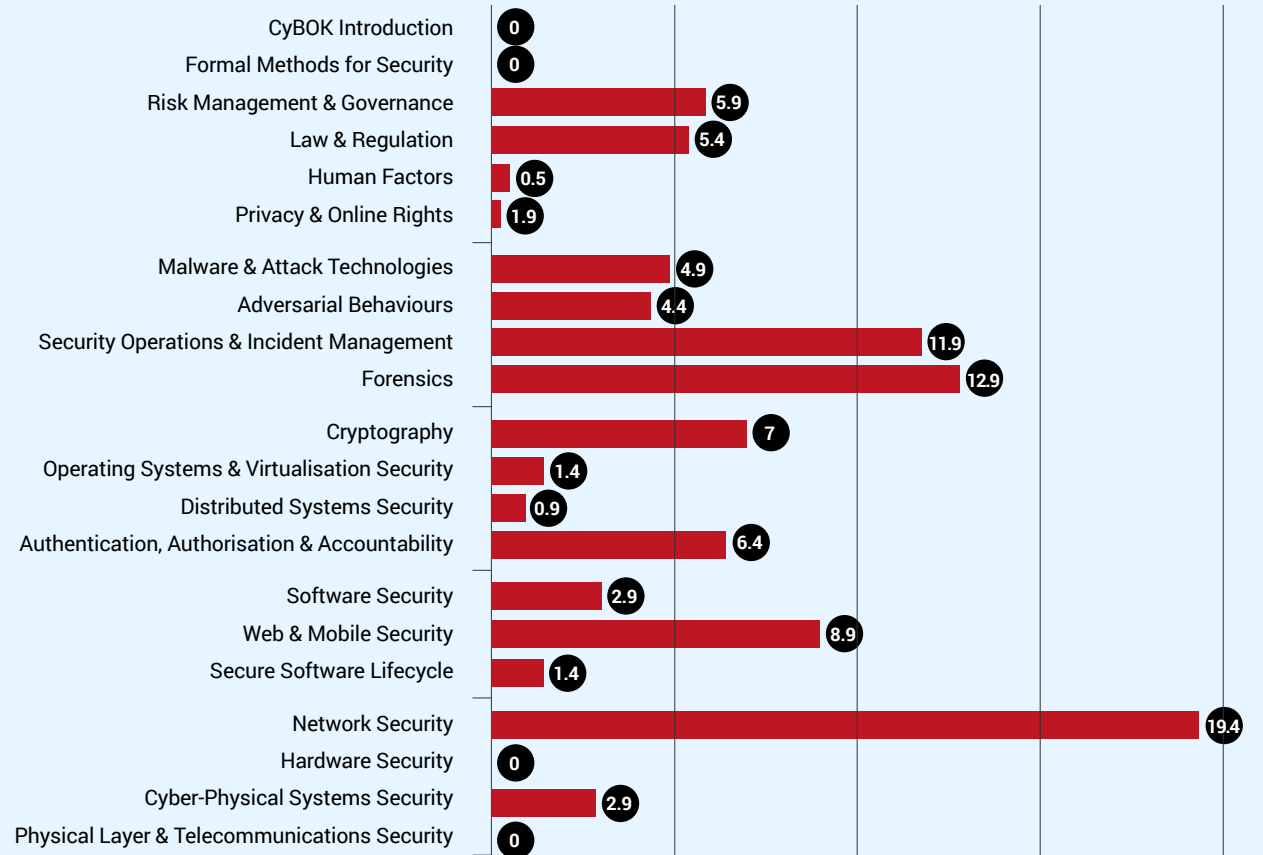
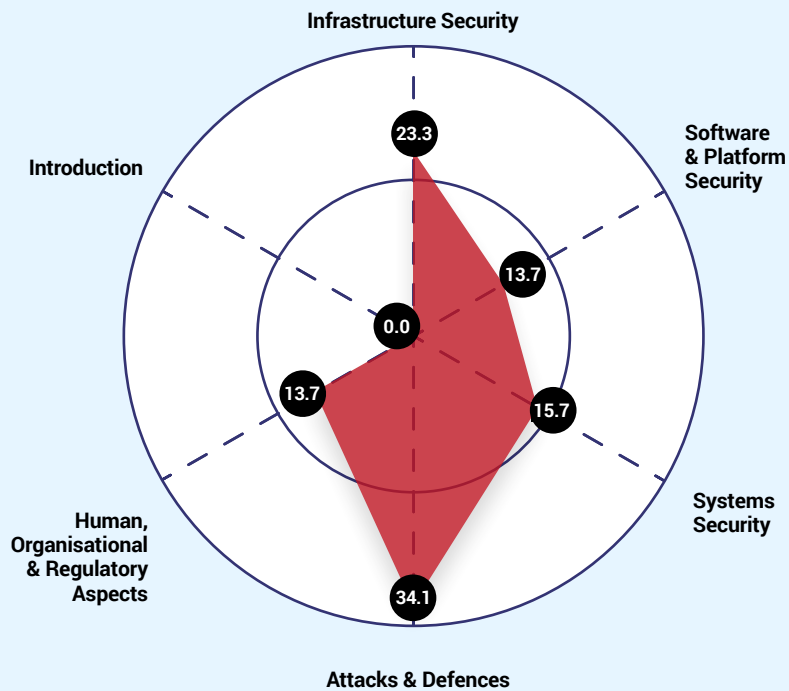
NCSC certified degrees



Percentage %

Robert Gordon University Aberdeen

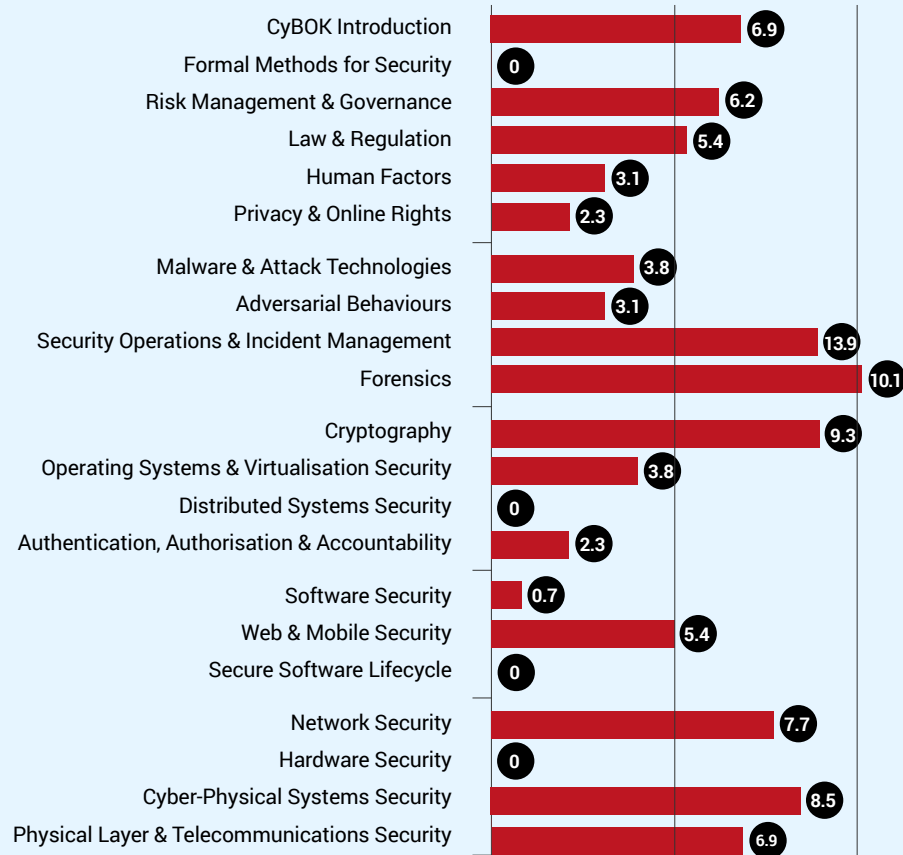
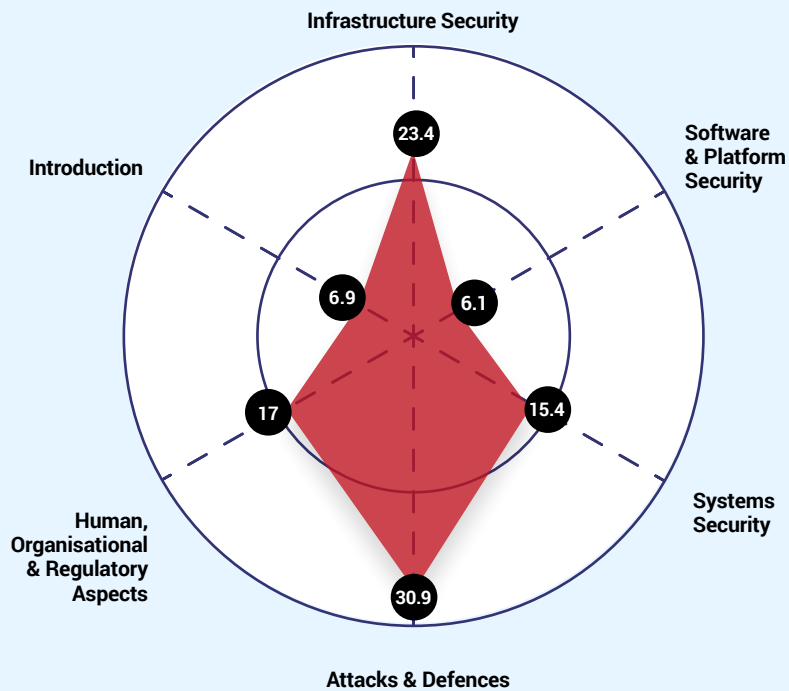
MSc Cyber Security



Percentage %

University of Plymouth

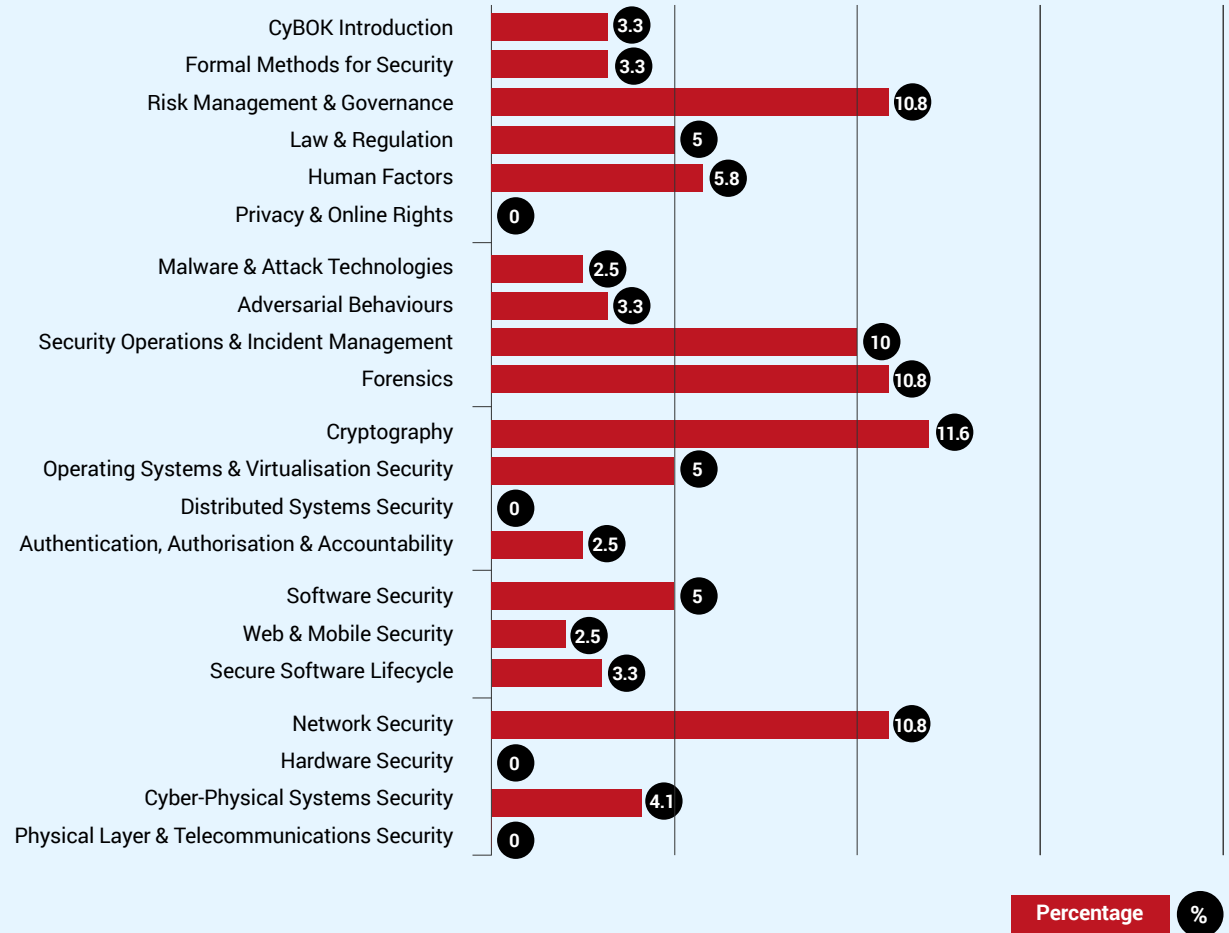
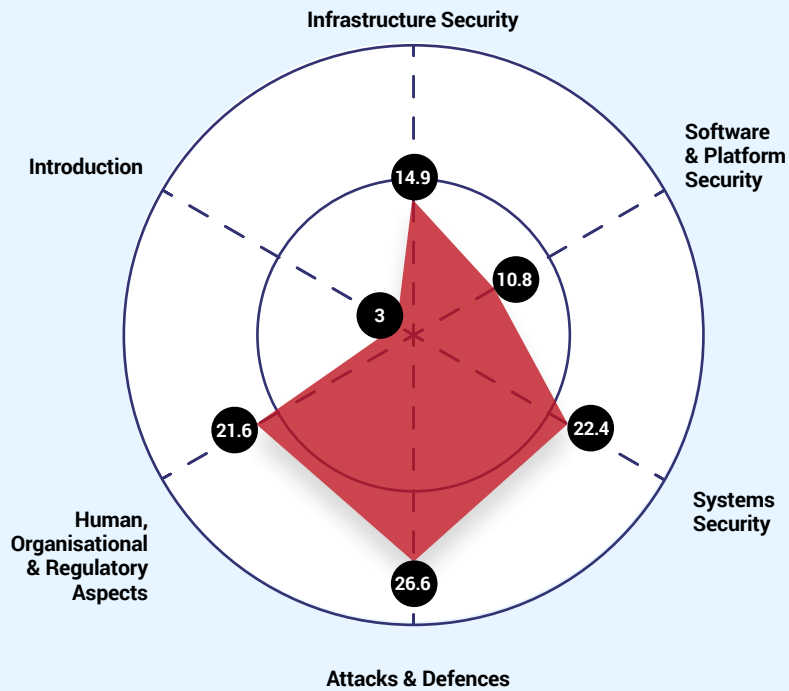
MSc Cyber Security



Percentage %

Coventry University

MSc Cyber Security



Resources

The core mapping resources used are available on the CyBOK website:

- **CyBOK Version 1.0.** An introductory webinar is also available, providing an overview of CyBOK, its background and the various use cases it enables.

[Click here](#)

- **CyBOK Mapping Reference (version 1.1 or 1.2 as appropriate)** – which provides a quick lookup mechanism for identifying the Knowledge Areas (KAs) where common cyber security concepts may appear within CyBOK.

[Click here for version 1.1](#)

[Click here for version 1.2](#)

CyBOK has been developed through input and efforts from the cyber security community within the UK and internationally. The team welcomes further comments and feedback on updates to CyBOK as this is a resource developed for the community, by the community.

Contact us at: contact@cybok.org

- **CyBOK Knowledge Trees** – which provide a hierarchical representation of the concepts covered for each of the KAs within CyBOK.

[Click here](#)

- **Tabular representation of CyBOK's broad categories, knowledge areas and their description** – providing a summary overview of the core elements covered within the detailed text of each KA.

[Click here](#)

Please note: some of the percentages may have been rounded up or down which means the sum may not equal 100%.

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Body of Knowledge



Bristol Cyber Security Group

