Mappings of University and Professional Training Programmes to CyBOK

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| SSCP - Systems Security Certified Practitioner - (ISC)² | 7 |
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Introduction

This booklet includes mappings of a number of education and training programmes: postgraduate and undergraduate 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 v1.0.0 (with the addition of a 20th KA on Formal Methods for Security) or CyBOK v1.1.0.

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 universities with NCSC certified degrees. The mappings were reviewed by an NCSC convened Assessment Panel as part of the certification process and/or reviewed by NCSC as part of the annual management information returns from all certified degree holders. 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.
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
NCSC Degree Certification

The UK’s National Cyber Security Centre (NCSC) has established a programme for the certification of degrees in cyber security: [www.ncsc.gov.uk/information/](http://www.ncsc.gov.uk/information/)

Starting in 2020, the CyBOK Knowledge Areas (KAs) have been used to define the requirements for the cyber security taught content in a number of NCSC certification standards as shown in Tables 1 and 2 below.

Postgraduate degrees using CyBOK  

<table>
<thead>
<tr>
<th>Standard</th>
<th>Total number of credits in degree, typically</th>
<th>Total number of taught credits, typically</th>
<th>Certification requirement for taught cyber security content</th>
</tr>
</thead>
<tbody>
<tr>
<td>Master’s in Cyber Security</td>
<td>180</td>
<td>120</td>
<td>At least 84 taught credits that can be mapped to the CyBOK KAs</td>
</tr>
<tr>
<td>Master’s Incorporating Cyber Security</td>
<td>180</td>
<td>120</td>
<td>Between 20 and 60 taught credits that can be mapped to the CyBOK KAs</td>
</tr>
</tbody>
</table>

1 In the UK, one credit equates to a notional 10 hours of learning by a student.
Mapping Taught Credits in NCSC Certified Degrees to CyBOK

The distribution of taught credits across the CyBOK KAs provides a very simple, yet powerful, way to characterise the taught content of those degrees in cyber security that have achieved NCSC certification. On the following pages the taught content of the certified degrees from 40 UK universities is displayed in the following two formats:

i. As histograms, where for each KA the number of taught credits in that KA is plotted.

ii. As spider charts, where for each broad category of CyBOK the number of taught credits in that broad category is plotted radially.

A number of the degrees on the following pages have several pathways through the degree that meet the NCSC certification standards – these are a result of optional modules being available to students. Given limitations on space, those degrees that have several pathways are highlighted but only one pathway is displayed.

Readers should note that the taught content of degree programmes will evolve over time and the certification status of degrees may also change. Thus what is presented in the booklet should be regarded as a snapshot in time. Readers requiring further information should look at the websites of the universities concerned and the NCSC.

Acknowledgements

The NCSC would like to thank all of the universities with NCSC certified degrees for permission to display their data in this booklet.

A note on the scales used

- For histograms, the vertical lines are at 0, 10, 20 and 30 credits.
- For spider diagrams, the circles are at 40 and 70 credits.
Mappings of Professional Training Programmes and NCSC Certified Degrees

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.

Please note: some of the percentages may have been rounded up or down which means the sum may not equal 100%. For histograms, where a 0 is shown, this is an effect of rounding down. Where there is no number, this indicates no coverage.
Certified Information Systems Security Professional - (ISC)^2

The Cyber Security Body Of Knowledge

Mapped to CyBOK v1.0.0 + Formal Methods for Security

CISSP

The Cyber Security Body Of Knowledge

cybok.org

Percentage %
SSCP
Systems Security Certified Practitioner - (ISC)²

The Cyber Security Body Of Knowledge (CyBOK)

Mapped to CyBOK v1.0.0 + Formal Methods for Security

cybok.org

Professional certification programmes

The Cyber Security Body Of Knowledge

Systems Security

Infrastructure Security
Software & Platform Security
Attacks & Defences

Human, Organisational & Regulatory Aspects

CyBOK Introduction
Formal Methods for Security
Risk Management & Governance
Law & Regulation
Human Factors
Privacy & Online Rights
Malware & Attack Technologies
Adversarial Behaviours
Security Operations & Incident Management
Forensics
Cryptography
Operating Systems & Virtualisation Security
Distributed Systems Security
Authentication, Authorisation & Accountability
Software Security
Web & Mobile Security
Secure Software Lifecycle
Network Security
Hardware Security
Cyber-Physical Systems Security
Physical Layer & Telecommunications Security

Percentage %
3
11
5
2
1
2
1
2
15
3
12
14
17
1
1
2
2
2
1
1
3
1
1
2
2
1
Abertay University
MSc Ethical Hacking and Cyber Security

CyBOK Introduction
Risk Management & Governance
Law & Regulation
Human Factors
Privacy & Online Rights
Malware & Attack Technologies
Adversarial Behaviours
Security Operations & Incident Management
Forensics
Cryptography
Operating Systems & Virtualisation Security
Distributed Systems Security
Formal Methods for Security
Authentication, Authorisation & Accountability
Software Security
Web & Mobile Security
Secure Software Lifecycle
Applied Cryptography
Network Security
Hardware Security
Cyber-Physical Systems Security
Physical Layer & Telecommunications Security

Number of credits
16
9
36
18
1
20
4
8
10
14
15
1
2
2
4
5
5
3
1
1
2
6
7
8
10
14
12

NCSC Certification – Master’s Degrees in Cyber Security
Abertay University
MSc Ethical Hacking and Cyber Security
University of Bradford
BSc Computer Science for Cyber Security

NCSC Certification – Bachelor’s Degrees in Computer Science & Cyber Security

The Cyber Security Body Of Knowledge
cybok.org

Number of credits

Mapped to CyBOK v1.1.0
City, University of London
MSc Cyber Security
(Core Modules + Machine Learning Pathway)

CyBOK Introduction
Risk Management & Governance
Law & Regulation
Human Factors
Privacy & Online Rights
Malware & Attack Technologies
Adversarial Behaviours
Security Operations & Incident Management
Forensics
Cryptography
Operating Systems & Virtualisation Security
Distributed Systems Security
Formal Methods for Security
Authentication, Authorisation & Accountability
Software Security
Web & Mobile Security
Secure Software Lifecycle
Applied Cryptography
Network Security
Hardware Security
Cyber-Physical Systems Security
Physical Layer & Telecommunications Security

Number of credits

CyBOK
The Cyber Security Body Of Knowledge
cybok.org
CyBOK Introduction
Risk Management & Governance
Law & Regulation
Human Factors
Privacy & Online Rights
Malware & Attack Technologies
Adversarial Behaviours
Security Operations & Incident Management
Forensics
Cryptography
Operating Systems & Virtualisation Security
Distributed Systems Security
Formal Methods for Security
Authentication, Authorisation & Accountability
Software Security
Web & Mobile Security
Secure Software Lifecycle
Applied Cryptography
Network Security
Hardware Security
Cyber-Physical Systems Security
Physical Layer & Telecommunications Security
Number of credits
4
13
13
7
3
3
4
4
4
12
18
32
4
27
26
13
18
27
4
13
13
7
7
4
3
26
4
13
13
7
7
4
3
4
3
4
8
12
6
6
6
6
6
20
University of East Anglia
MSc Cyber Security

CyBOK Introduction
Risk Management & Governance
Law & Regulation
Human Factors
Privacy & Online Rights
Malware & Attack Technologies
Adversarial Behaviours
Security Operations & Incident Management
Forensics
Cryptography
Operating Systems & Virtualisation Security
Distributed Systems Security
Formal Methods for Security
Authentication, Authorisation & Accountability
Software Security
Web & Mobile Security
Secure Software Lifecycle
Applied Cryptography
Network Security
Hardware Security
Cyber-Physical Systems Security
Physical Layer & Telecommunications Security

Number of credits

CyBOK Mapped to v1.1.0

NCSC Certification – Master’s Degrees in Cyber Security

The Cyber Security Body Of Knowledge
cybok.org
Edinburgh Napier University
MSc Advanced Security and Digital Forensics

Mapped to CyBOK v1.1.0
Edinburgh Napier University
BEng Cyber Security and Forensics

CyBOK Introduction
Risk Management & Governance
Law & Regulation
Human Factors
Privacy & Online Rights
Malware & Attack Technologies
Adversarial Behaviours
Security Operations & Incident Management
Forensics
Cryptography
Operating Systems & Virtualisation Security
Distributed Systems Security
Formal Methods for Security
Authentication, Authorisation & Accountability
Software Security
Web & Mobile Security
Secure Software Lifecycle
Applied Cryptography
Network Security
Hardware Security
Cyber-Physical Systems Security
Physical Layer & Telecommunications Security

Number of credits
2 2.5 3.5 3 2 9 4 9 40 6 11 6 18 3 5 6 5 6 3

Mapped to CyBOK v1.1.0

NCSC Certification – Bachelor’s Degrees in Computer Science & Cyber Security

The Cyber Security Body Of Knowledge
cybok.org
Glasgow Caledonian University
MSc Scottish Graduate Apprenticeship in Cyber Security
MSc Cyber Security

CyBOK Introduction
Risk Management & Governance
Law & Regulation
Human Factors
Privacy & Online Rights
Malware & Attack Technologies
Adversarial Behaviours
Security Operations & Incident Management
Forensics
Cryptography
Operating Systems & Virtualisation Security
Distributed Systems Security
Formal Methods for Security
Authentication, Authorisation & Accountability
Software Security
Web & Mobile Security
Secure Software Lifecycle
Applied Cryptography
Network Security
Hardware Security
Cyber-Physical Systems Security
Physical Layer & Telecommunications Security

NCSC Certifications – Master’s Degrees in Cyber Security; Scottish Graduate Apprenticeships in Cyber Security

The Cyber Security Body Of Knowledge
cybok.org

Number of credits

25
University of Greenwich
MSc Computer Forensics and Cyber Security
(One of Three Available Pathways)

CyBOK Introduction
Risk Management & Governance
Law & Regulation
Human Factors
Privacy & Online Rights
Malware & Attack Technologies
Adversarial Behaviours
Security Operations & Incident Management
Forensics
Cryptography
Operating Systems & Virtualisation Security
Distributed Systems Security
Formal Methods for Security
Authentication, Authorisation & Accountability
Software Security
Web & Mobile Security
Secure Software Lifecycle
Applied Cryptography
Network Security
Hardware Security
Cyber-Physical Systems Security
Physical Layer & Telecommunications Security

Mapped to CyBOK v1.1.0

The Cyber Security Body Of Knowledge
cybok.org
Kingston University
MSc Network and Information Security (Cyber Pathway)

CyBOK Introduction
Risk Management & Governance
Law & Regulation
Human Factors
Privacy & Online Rights
Malware & Attack Technologies
Adversarial Behaviours
Security Operations & Incident Management
Forensics
Cryptography
Operating Systems & Virtualisation Security
Distributed Systems Security
Formal Methods for Security
Authentication, Authorisation & Accountability
Software Security
Web & Mobile Security
Secure Software Lifecycle
Applied Cryptography
Network Security
Hardware Security
Cyber-Physical Systems Security
Physical Layer & Telecommunications Security

Number of credits

1 2 9 1 21 6
1 6 2
1
1
6
1
15
4
4
1
12
3
4
15
1

Mapped to CyBOK v1.1.0

The Cyber Security Body Of Knowledge
cybok.org
<table>
<thead>
<tr>
<th>Topic</th>
<th>Number of Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>CyBOK Introduction</td>
<td>1.5</td>
</tr>
<tr>
<td>Risk Management &amp; Governance</td>
<td>2</td>
</tr>
<tr>
<td>Law &amp; Regulation</td>
<td>2</td>
</tr>
<tr>
<td>Human Factors</td>
<td>2</td>
</tr>
<tr>
<td>Privacy &amp; Online Rights</td>
<td>0.7</td>
</tr>
<tr>
<td>Malware &amp; Attack Technologies</td>
<td>6</td>
</tr>
<tr>
<td>Adversarial Behaviours</td>
<td>0.7</td>
</tr>
<tr>
<td>Security Operations &amp; Incident Management</td>
<td>3</td>
</tr>
<tr>
<td>Forensics</td>
<td>6</td>
</tr>
<tr>
<td>Cryptography</td>
<td>5</td>
</tr>
<tr>
<td>Operating Systems &amp; Virtualisation Security</td>
<td>12</td>
</tr>
<tr>
<td>Distributed Systems Security</td>
<td>13.5</td>
</tr>
<tr>
<td>Formal Methods for Security</td>
<td>13.5</td>
</tr>
<tr>
<td>Authentication, Authorisation &amp; Accountability</td>
<td>30</td>
</tr>
<tr>
<td>Software Security</td>
<td>18.2</td>
</tr>
<tr>
<td>Web &amp; Mobile Security</td>
<td>18.7</td>
</tr>
<tr>
<td>Secure Software Lifecycle</td>
<td>18.7</td>
</tr>
<tr>
<td>Applied Cryptography</td>
<td>18.7</td>
</tr>
<tr>
<td>Network Security</td>
<td>18.7</td>
</tr>
<tr>
<td>Hardware Security</td>
<td>18.7</td>
</tr>
<tr>
<td>Cyber-Physical Systems Security</td>
<td>18.7</td>
</tr>
<tr>
<td>Physical Layer &amp; Telecommunications Security</td>
<td>18.7</td>
</tr>
<tr>
<td>Systems Security</td>
<td>18.7</td>
</tr>
<tr>
<td>Infrastructure Security</td>
<td>18.7</td>
</tr>
<tr>
<td>Software &amp; Platform Security</td>
<td>18.7</td>
</tr>
<tr>
<td>Attacks &amp; Defences</td>
<td>18.7</td>
</tr>
<tr>
<td>Human, Organisational &amp; Regulatory Aspects</td>
<td>18.7</td>
</tr>
<tr>
<td>Software &amp; Platform Security</td>
<td>18.7</td>
</tr>
<tr>
<td>Systems Security</td>
<td>18.7</td>
</tr>
<tr>
<td>Infrastructure Security</td>
<td>18.7</td>
</tr>
<tr>
<td>Number of credits: 34</td>
<td></td>
</tr>
</tbody>
</table>
University of Manchester
MSc Advanced Computer Science
(Computer Security)

NCSC Certification – Master’s Degrees
Incorporating Cyber Security

The Cyber Security Body Of Knowledge
cybok.org

Mapped to CyBOK v1.1.0
University of Oxford
MSc Software and Systems Security (Showing One of the Many Pathways)

CyBOK Introduction
Risk Management & Governance
Law & Regulation
Human Factors
Privacy & Online Rights
Malware & Attack Technologies
Adversarial Behaviours
Security Operations & Incident Management
Forensics
Cryptography
Operating Systems & Virtualisation Security
Distributed Systems Security
Formal Methods for Security
Authentication, Authorisation & Accountability
Software Security
Web & Mobile Security
Secure Software Lifecycle
Applied Cryptography
Network Security
Hardware Security
Cyber-Physical Systems Security
Physical Layer & Telecommunications Security

CyBOK Introduction
Risk Management & Governance
Law & Regulation
Human Factors
Privacy & Online Rights
Malware & Attack Technologies
Adversarial Behaviours
Security Operations & Incident Management
Forensics
Cryptography
Operating Systems & Virtualisation Security
Distributed Systems Security
Formal Methods for Security
Authentication, Authorisation & Accountability
Software Security
Web & Mobile Security
Secure Software Lifecycle
Applied Cryptography
Network Security
Hardware Security
Cyber-Physical Systems Security
Physical Layer & Telecommunications Security

Numer of credits
12
26.5
32
28
3
23.5
6
18.5
1
7
1.5
6
2
6
7
2
8
7
1
1
1

NCSC Certification – Master’s Degrees in Cyber Security

The Cyber Security Body Of Knowledge
cybok.org

38
<table>
<thead>
<tr>
<th>Course Category</th>
<th>Number of Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>CyBOK Introduction</td>
<td>13.9</td>
</tr>
<tr>
<td>Risk Management &amp; Governance</td>
<td>2</td>
</tr>
<tr>
<td>Law &amp; Regulation</td>
<td>2</td>
</tr>
<tr>
<td>Human Factors</td>
<td>2</td>
</tr>
<tr>
<td>Privacy &amp; Online Rights</td>
<td>2</td>
</tr>
<tr>
<td>Malware &amp; Attack Technologies</td>
<td>2</td>
</tr>
<tr>
<td>Adversarial Behaviours</td>
<td>1</td>
</tr>
<tr>
<td>Security Operations &amp; Incident Management</td>
<td>11</td>
</tr>
<tr>
<td>Forensics</td>
<td>7</td>
</tr>
<tr>
<td>Cryptography</td>
<td>3</td>
</tr>
<tr>
<td>Operating Systems &amp; Virtualisation Security</td>
<td>10</td>
</tr>
<tr>
<td>Distributed Systems Security</td>
<td>3</td>
</tr>
<tr>
<td>Formal Methods for Security</td>
<td>4</td>
</tr>
<tr>
<td>Authentication, Authorisation &amp; Accountability</td>
<td>10</td>
</tr>
<tr>
<td>Software Security</td>
<td>5.3</td>
</tr>
<tr>
<td>Web &amp; Mobile Security</td>
<td>5.3</td>
</tr>
<tr>
<td>Secure Software Lifecycle</td>
<td>3</td>
</tr>
<tr>
<td>Applied Cryptography</td>
<td>3</td>
</tr>
<tr>
<td>Network Security</td>
<td>10</td>
</tr>
<tr>
<td>Hardware Security</td>
<td>10</td>
</tr>
<tr>
<td>Cyber-Physical Systems Security</td>
<td>10</td>
</tr>
<tr>
<td>Physical Layer &amp; Telecommunications Security</td>
<td>10</td>
</tr>
</tbody>
</table>

The Cyber Security Body Of Knowledge

cybok.org
Queen's University Belfast
MSc Applied Cyber Security

Mapped to CyBOK v1.1.0

CyBOK Introduction
Risk Management & Governance
Law & Regulation
Human Factors
Privacy & Online Rights
Malware & Attack Technologies
Adversarial Behaviours
Security Operations & Incident Management
Forensics
Cryptography
Operating Systems & Virtualisation Security
Distributed Systems Security
Formal Methods for Security
Authentication, Authorisation & Accountability
Software Security
Web & Mobile Security
Secure Software Lifecycle
Applied Cryptography
Network Security
Hardware Security
Cyber-Physical Systems Security
Physical Layer & Telecommunications Security

Number of credits

NCSC Certification – Master’s Degrees in Cyber Security

CybOK.org

42
NCSC Certification – Master’s Degrees in Cyber Security

Royal Holloway, University of London
MSc Information Security (Showing One of the Many Pathways)

Mapped to CyBOK v1.1.0
University of Sheffield
MSc Cyber Security and Artificial Intelligence

NCSC Certification – Master’s Degrees
Incorporating Cyber Security

The Cyber Security Body Of Knowledge
cybok.org

Mapped to CyBOK v1.1.0
University of Southampton
MSc Cyber Security

CyBOK Introduction
Risk Management & Governance
Law & Regulation
Human Factors
Privacy & Online Rights
Malware & Attack Technologies
Adversarial Behaviours
Security Operations & Incident Management
Forensics
Cryptography
Operating Systems & Virtualisation Security
Distributed Systems Security
Formal Methods for Security
Authentication, Authorisation & Accountability
Software Security
Web & Mobile Security
Secure Software Lifecycle
Applied Cryptography
Network Security
Hardware Security
Cyber-Physical Systems Security
Physical Layer & Telecommunications Security

Number of credits

1
10
5
2
6
10
6
2
2
2
3
1
10
3
8
5
9
5
7
10
50

CyBOK v1.1.0
The Cyber Security Body Of Knowledge
cybok.org

NCSC Certification – Master’s Degrees in Cyber Security
University College London
MSc Information Security
(One of Several Pathways)

Mapped to CyBOK v1.1.0

CyBOK Introduction
Risk Management & Governance
Law & Regulation
Human Factors
Privacy & Online Rights
Malware & Attack Technologies
Adversarial Behaviours
Security Operations & Incident Management
Forensics
Cryptography
Operating Systems & Virtualisation Security
Distributed Systems Security
Formal Methods for Security
Authentication, Authorisation & Accountability
Software Security
Web & Mobile Security
Secure Software Lifecycle
Applied Cryptography
Network Security
Hardware Security
Cyber-Physical Systems Security
Physical Layer & Telecommunications Security

Number of credits

CyBOK Introduction 5
Risk Management & Governance 5.5
Law & Regulation 3.9
Human Factors 8
Privacy & Online Rights 7
Malware & Attack Technologies 9.5
Adversarial Behaviours 8
Security Operations & Incident Management 7
Forensics 12.5
Cryptography 1.5
Operating Systems & Virtualisation Security 5
Distributed Systems Security 5
Formal Methods for Security 1.5
Authentication, Authorisation & Accountability 7
Software Security 4.5
Web & Mobile Security 4.5
Secure Software Lifecycle 8
Applied Cryptography 9
Network Security 4.5
Hardware Security 0.5
Cyber-Physical Systems Security 0.5
Physical Layer & Telecommunications Security 0.5

The Cyber Security Body Of Knowledge
ocybok.org
University of South Wales
BSc Computer Security

CyBOK Introduction
Risk Management & Governance
Law & Regulation
Human Factors
Privacy & Online Rights
Malware & Attack Technologies
Adversarial Behaviours
Security Operations & Incident Management
Forensics
Cryptography
Operating Systems & Virtualisation Security
Distributed Systems Security
Formal Methods for Security
Authentication, Authorisation & Accountability
Software Security
Web & Mobile Security
Secure Software Lifecycle
Applied Cryptography
Network Security
Hardware Security
Cyber-Physical Systems Security
Physical Layer & Telecommunications Security

NCSC Certification – Bachelor’s Degrees in Computer Science & Cyber Security

Number of credits

The Cyber Security Body Of Knowledge
cybok.org

56
University of South Wales
MSc Computer Forensics

CyBOK Introduction
Risk Management & Governance
Law & Regulation
Human Factors
Privacy & Online Rights
Malware & Attack Technologies
Adversarial Behaviours
Security Operations & Incident Management
Forensics
Cryptography
Operating Systems & Virtualisation Security
Distributed Systems Security
Formal Methods for Security
Authentication, Authorisation & Accountability
Software Security
Web & Mobile Security
Secure Software Lifecycle
Applied Cryptography
Network Security
Hardware Security
Cyber-Physical Systems Security
Physical Layer & Telecommunications Security

Number of credits

Mapped to CyBOK v1.1.0
University of Warwick
MSc Cyber Security Management
MSc Cyber Security Engineering

NCSC Certification – Master’s Degrees in Cyber Security

The Cyber Security Body Of Knowledge
cybok.org
University of York
MSc Cyber Security

The Cyber Security Body Of Knowledge
cybok.org

CyBOK Introduction
Risk Management & Governance
Law & Regulation
Human Factors
Privacy & Online Rights
Malware & Attack Technologies
Adversarial Behaviours
Security Operations & Incident Management
Forensics
Cryptography
Operating Systems & Virtualisation Security
Distributed Systems Security
Formal Methods for Security
Authentication, Authorisation & Accountability
Software Security
Web & Mobile Security
Secure Software Lifecycle
Applied Cryptography
Network Security
Hardware Security
Cyber-Physical Systems Security
Physical Layer & Telecommunications Security

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MSc Cyber Security

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cybok.org

CyBOK

NCSC Certification – Master’s Degrees in Cyber Security
The core mapping resources used are available on the CyBOK website:

- **CyBOK Version 1.0.0** An introductory webinar is also available, providing an overview of CyBOK, its background and the various use cases it enables.
  - Click here for CyBOK v1.0.0

- **CyBOK Version 1.1.0**
  - Click here for CyBOK v1.1.0

- **CyBOK Mapping Reference (version 1.1, 1.2 or 1.3 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
  - Click here for version 1.3

- Click here for information about the NCSC degree certification programme.

- **CyBOK Knowledge Trees** – which provide a hierarchical representation of the concepts covered for each of the KAs within CyBOK.
  - Click here for version 1.0.0
  - Click here for version 1.1.0

- 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

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