

Higher Apprenticeship in Information Security

Overview

Information Security is now one of the most important concerns for organisations of all sizes and within all sectors. These qualifications provide a means to increase the number of skilled security professionals in Wales.

Candidates will gain the skills, knowledge and competence required to work as Information Security Professionals in a wide range of job roles such as:

- > Network Security Officers- planning, implementing, upgrading and monitoring security measures for the protection of computer networks and information
- > Information Assurance Officers- Protecting information from unauthorised access and compromise, making sure it is kept secure and only disclosed or shared in compliance with the information assurance and security strategy, relevant standards and legislation
- > Secure system development - creation of secure software, implementing secure programming techniques
- > Penetration Tester- evaluation of computer and network security by simulating attacks on a computer system or network from external and internal threats

Qualification components:

- > Level 4 Diploma in Information Security Professional
- > Essential Skills Wales Application of Number Level 2
- > Essential Skills Wales Communication Level 2
- > Essential Skills Wales Digital Literacy Level 2

The Level 4 Diploma in Information Security Professionals consists of 3 groups of units:

- > A group of mandatory units
- > A mandatory group with two subgroups of optional units at level 3 and level 4
- > An optional group of optional units

Please note: The units in bold are now available as a pre-selected pathway. If your preference is other modules from the optional choices, ALS will review your requirements and discuss availability and timings.

Mae'r Rhaglenni Prentisiaeth, Hyfforddeiaeth a Thwf Swyddi Cymru, a arweinir gan Llywodraeth Cymru, yn cael cymorth ariannol gan Gronfa Gymdeithasol Ewrop

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Qualification	Total Number of credits	Credits from mandatory units	Minimum credits from mandatory group of optional units Group B	Minimum credits from mandatory group of optional units Group C	Minimum credits to be achieved at level 3
Level 4 Information Security	150	42	73 (minimum of 41 credits from subgroup B1)	35	90

Level 4 Diploma in Information Security Professional

Mandatory Units			
Unit Code	Title	Level	Credits
CJ14CY001	Professional Practice in an IT Context	Four	11
CY74CY006	Principles of Information Security Testing	Four	10
PL12CY033	Health and Safety in IT	Two	3
CY74CY007	Principles of Information Governance and Assurance	Four	18

Optional Group B2 Units			
Unit Code	Title	Level	Credits
XM14CY001	Testing IT & Telecoms Systems	Four	15
XM13CY001	IT & Telecom System Security 2	Three	8
CK33CY007	Creating an Event Driven Computer Program	Three	12
CK33CY008	Creating an Object-Oriented Computer Program	Three	12
CK33CY006	Creating a Procedural Computer Program	Three	12
CJ34CY001	IT System Operation 2	Four	14

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CK24CY001	Creating Event Driven Software	Four	20
CK24CY004	Creating Object Oriented Software	Four	20
CK24CY005	Creating Procedural Software	Four	20
CJ33CY003	IT System Operation	Three	12
CM13CY003	User Profile Administration	Three	3
CM23CY003	Remote Support for IT Products and Services	Three	9
CJ33CY004	IT System Management	Three	12
CM23CY002	Investigating and Defining Customer Requirements for IT Systems	Three	12
CM23CY005	Testing IT Systems	Three	12
CM13CY002	IT Technical Advice and Guidance	Three	7
CJ34CY002	IT System Management	Four	15
XM14CY003	IT System Security	Four	12
CM14CY001	IT Technical Advice and Guidance	Four	12
CM24CY002	Remote Support for IT Products and Services	Four	12
CL43CY009	Managing Software Development	Three	15
CL44CY004	Managing Software Development	Four	20

Group B1			
Unit Code	Title	Level	Credits
XM14CY002	Testing the Security of Information Systems	Four	15
XM13CY002	Testing the Security of Information Systems	Three	12
CK83CY016	Carrying out Information Security Risk Assessment	Three	9

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CK84CY009	Carrying out Information Security Risk Assessment	Four	12
CK83CY017	Investigating Information Security Incidents	Three	9
CK84CY010	Investigating Information Security Incidents	Four	12
CK83CY018	Carrying out Information Security Incident Management Activities	Three	9
CK84CY011	Carrying out Information Security Incident Management Activities	Four	12
CK83CY015	Carrying out Information Security Forensic Examinations	Three	6
CK84CY008	Carrying out Information Security Forensic Examinations	Four	9
CK83CY014	Carrying out Information Security Audits	Three	6
CK84CY007	Carrying out Information Security Audits	Four	12

Optional Group C

Unit Code	Title	Level	Credits
CY23CY003	Advanced Data Representation and Manipulation for IT	Three	7
CK23CY018	Networking Principles	Three	10
CY74CY005	Principles of Secure System Development	Four	7
CM43CY003	Principles of Secure System Development	Three	6
RB73CY019	Data Modelling	Three	6
CK13CY010	Systems Architecture	Three	8
CK14CY001	Systems Architecture	Four	8
CK83CY013	Web Development	Three	12
CK84CY006	Web Development	Four	15

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From the level 4 qualifications learners may follow lateral progression onto:

- > Level 4 Digital Content Management
- > Level 4 IT Infrastructure
- > Level 4 IT Solution Development
- > Level 4 Health Informatics
- > Level 4 Project Management

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Visit our website www.alstraining.org.uk for a comprehensive list of our training services.

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