



HIGHER APPRENTICESHIP

# Cyber security Analyst

Level 4

# 4

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# Apprenticeship Framework

The Level 4 Cyber Security Analyst Apprenticeship has been designed with employers in Wales to equip employees with the primary cyber security skills that they need to be able to identify and manage cyber security risks, protect the integrity of cyber assets and respond effectively to cyber security incidents. This apprenticeship programme is designed to provide a robust vocational route to obtaining the skills and knowledge required to succeed as a cyber security analyst.

## Who is this apprenticeship for?

This programme is suitable for those seeking a career in the exciting world of cyber security, for those wishing to upskill themselves to take on a more responsible role in providing cyber security within the organisation or, for cyber security professionals who want an accredited qualification to affirm their existing experience in the field.

## On completion apprentices will achieve the following:

- Agored Cymru Level 4 Diploma in Cyber Security Analyst
- Level 2 Essential Skill in Application of Number
- Level 2 Essential Skill in Communication



## Benefits of the apprenticeship programme:

**Accelerate Career Growth:** Undertaking the Level 4 Cyber Security Analyst Apprenticeship will fast-track career development by providing invaluable hands-on experience alongside theoretical knowledge. Apprentices will be equipped with the tools to excel as a cyber security professional and make a difference in any organisation.

**Industry-Recognised Certification:** Upon successful completion of this programme, Apprentices will earn a prestigious industry-recognised certification, providing them with a competitive edge in the job market. Employers value the skills and expertise gained through this apprenticeship, opening doors to exciting opportunities.

**Practical and Real-World Learning:** Our programme emphasises practical, real-world learning. apprentices will practice skills in a classroom environment and be able to apply what has been taught within the workplace, collaborating with experienced colleagues who will guide the apprentice through every step of the process.

**Tailored Curriculum:** Our comprehensive curriculum is designed to meet the demands of the digital economy and the security it depends upon. Apprentices will cover essential topics such as system security, threat and risk analysis, incident management, governance and assurance of information systems and processes, continual development, and professionalism.

**Experienced and Knowledgeable Advisors:** Throughout the apprenticeship, we will provide access to a network of experienced advisors who will provide guidance, support, and feedback. Apprentices will learn from industry experts with a wealth of knowledge and experience across the digital sector.

## Course Delivery

- Typical duration of 24 months.
- Induction session for apprentices and for their line managers.
- 7x full day technical skills and knowledge workshops.
- Supported by self-study online resources.
- One to One tutor coaching and assessment support sessions
- 4 Essential skills assessment days. (2 Preparation days and 2 Live Task days) \*\*
- 2 hour long essential skills confirmatory tests. \*\*

*\*\*Essential Skills activities are not applicable to apprentices with exemptions.*



# Level 4 Diploma in Cyber Security Analyst

## Course Delivery

This element of the programme will be delivered through blended learning with learners attending full day knowledge and technical skills workshops delivered either face to face or virtually using Microsoft Teams across the 24-month duration of the programme.

Additional development and assessment support will be provided through regular 1-to-1 sessions with a member of the ALS delivery team. An ALS assessor will meet with the learner, either in the workplace or through digital means. (for example, Microsoft Teams) to provide coaching, advice and assessment support.

Learners will also be set tasks to complete between each visit which are tailored to the different needs of each learner and the workplace activities they are involved with.

## Qualification Structure Summary

The Level 4 Diploma in Cyber Security Analyst consists of 6 mandatory units, with a total of 68 credits plus a minimum of 27 optional credits.

Unit rules of combination.

- Mandatory Units (Learners must achieve all 6 units) – 68 credits.
- Optional Group B units – minimum 15 credits.
- Optional Group C units – minimum 12 credits
- The same unit may not be selected at more than one level (e.g. Investigating Information Security Incidents Level 3 and Investigating Information Security Incidents Level 4)

## What you will learn

This programme is made up of a mixture of mandatory units (these have to be completed by all learners as part of the qualification) and optional units (we will work with you to decide what units are relevant to your role, and your business). A brief overview of these units is below.

| Mandatory Units  |       |
|--|-------|
| Unit Title   | Level |
| Professional Practice in an IT Context                           | 4     |
| Health and Safety in IT  | 2     |
| Carrying out Information Security Risk Assessment                | 4     |
| Carrying out Information Security Incident Management Activities | 4     |
| IT System Security   | 4     |
| Principles of Information Governance and Assurance               | 4     |

| Optional Group B Units (minimum 15 credits required)             |       |         |
|--|-------|---------|
| Unit Title   | Level | Credits |
| Testing the Security of Information Systems                      | 4     | 15      |
| Principles of Secure System Development                          | 4     | 7       |
| Principles of Information Security Testing                       | 4     | 10      |
| Testing the Security of Information Systems                      | 3     | 12      |
| Carrying out Information Security Risk Assessment                | 3     | 9       |
| Carrying out Information Security Risk Assessment                | 4     | 12      |
| Investigating Information Security Incidents                     | 3     | 9       |
| Investigating Information Security Incidents                     | 4     | 12      |
| Carrying out Information Security Incident Management Activities | 3     | 9       |
| Carrying out Information Security Incident Management Activities | 4     | 12      |
| Carrying out Information Security Forensic Examinations          | 3     | 6       |
| Carrying out Information Security Forensic Examinations          | 4     | 9       |
| Carrying out Information Security Audits                         | 3     | 9       |
| Carrying out Information Security Audits                         | 4     | 12      |
| Principles of Secure System Development                          | 3     | 9       |
| Threat Analysis  | 3     | 12      |
| Digital Vulnerability Assessment                                 | 3     | 7       |
| Digital Vulnerability Assessment                                 | 4     | 7       |

### Optional Group C Units (minimum 12 credits required)

| Unit Title  | Level | Credits |
|---|-------|---------|
| Testing IT & Telecoms Systems                                   | 4     | 15      |
| Advanced Data Representation and Manipulation for IT            | 3     | 7       |
| IT & Telecom System Security 2                                  | 3     | 8       |
| IT System Operation 2   | 4     | 14      |
| Networking Principles   | 3     | 10      |
| IT System Operation   | 3     | 12      |
| User Profile Administration                                     | 3     | 3       |
| Data Modelling  | 3     | 6       |
| Remote Support for IT Products and Services                     | 3     | 9       |
| IT System Management  | 3     | 12      |
| Investigating and Defining Customer Requirements for IT Systems | 3     | 12      |
| Testing IT Systems  | 3     | 12      |
| IT Technical Advice and Guidance                                | 3     | 7       |
| IT System Management  | 4     | 15      |
| IT Technical Advice and Guidance                                | 4     | 12      |
| Remote Support for IT Products and Services                     | 4     | 12      |
| Managing Software Development                                   | 3     | 15      |
| Managing Software Development                                   | 4     | 20      |
| Systems Architecture  | 3     | 8       |
| Systems Architecture  | 4     | 8       |
| Web Development   | 3     | 12      |
| Web Development   | 4     | 15      |
| Investigating and Defining Customer Requirements for IT Systems | 4     | 15      |
| Computer Coding   | 3     | 20      |
| Software Development  | 4     | 10      |

### Have any questions about our Level 4 Cyber Security Analyst Apprenticeship?

We are here to help. If you have any further questions or enquiries about the main qualification element of the programme, please contact [info@alstraining.org.uk](mailto:info@alstraining.org.uk)



# Essential Skills Qualifications

When you agree to undertake an apprenticeship, you may be required to complete Essential Skills as part of your Apprenticeship framework.

## Essential Skills Wales

The Essential Skills Wales (ESW) will be initially assessed via an online Wales Essential Skills Toolkit (WEST) Assessment. Where a Learner already holds an ESW certificate or equivalent qualification this can provide an exemption and learners will not need to complete that ESW element of the programme. Where a Learner is not exempt an Individual Learning Plan (ILP) will be generated from the initial assessment. The modules delivery will include independent learning via WEST, prior to guided learning sessions preparing the Learner for their assessment. ESWs are assessed via controlled tasks and confirmatory tests for Communication and Application of Number.

## Exemptions

If you already hold qualifications, these may be used as 'exemptions' towards your apprenticeship framework. As a result, you will be exempt from achieving that particular Essential Skill, if you wish. This will be discussed with you before you sign up with us and will also be followed up by your assessor before and during your first visit from us.

### Have any questions about Essential Skills?

We are here to help. If you have any further questions or enquiries about Essential Skills element of the programme, please contact [info@alstraining.org.uk](mailto:info@alstraining.org.uk)