OTHM · LEVEL 4 · 610/5103/2

OTHM Level 4 Diploma in Cyber Security

Computing foundations for cyber security: IT security, computer systems, algorithms and data structures, networks, operating systems and the mathematics behind them.



Study it online. Finish with a qualification that is on your record for life.

WHERE IT SITS

- Entry
- Level 1
- Level 2
- Level 3
- **Level 4**
- Level 5

Level 4	600	6	100%
REGULATED LEVEL	LEARNING HOURS	UNITS	ONLINE

Delivered online
Tutor support.

Assessed on your work
A portfolio of your own work. No written exam.

Awarded by OTHM Qualifications
We are an approved OTHM centre.

Ask us
For the fee and the next start date.

Studied online
600 guided learning hours, 1200 total qualification time, 120 credits

Tutor support throughout
Questions answered within 2 working days, feedback within 10.

Nothing paid at application
Payment only after you accept an offer.

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WHAT YOU WILL STUDY

6 units, 600 guided learning hours



Information Technology Security	100 h · 17%
Principles of Computer Systems	100 h · 17%
Algorithms and Data Structures	100 h · 17%
Computer Networks	100 h · 17%
Mathematics for Computer Science	100 h · 17%
Operating Systems	100 h · 17%

UNIT BY UNIT

What each unit covers

Information Technology Security

100 hours

- Understand the nature of information and what is meant by information privacy.
- Understand the importance of secure design in Cyber Security systems.
- Understand legal and societal issues concerning information security.
- Understand key concepts in information security, including threats and risks.
- Be able to apply cryptographic techniques to encrypt and decrypt information.

Principles of Computer Systems

100 hours

- Understand the architecture and key components of computer systems.
- Be able to design and implement simple state machines.
- Understand the fundamentals of assembly language and how it relates to higher level programming languages.
- Understand the types and functions of memory in computing systems.
- Understand the fundamentals of logic circuits and gates.

Algorithms and Data Structures

100 hours

- Understand a range of essential data structures.
- Understand a range of algorithmic techniques.
- Understand algorithmic complexity and appreciate its importance.
- Be able to write algorithms in popular programming languages. Assessment

Computer Networks

100 hours

- Understand the core principles of computer networks.
- Be able to design a computer network suited to a given setting.
- Understand how devices connect to form networks.

Mathematics for Computer Science

100 hours

- Understand binary and the representation of numbers in different bases.
- Understand key topics in number theory and their application in computer science.
- Understand key topics in linear algebra.
- Understand the principles of propositional logic, set theory, and proof as applicable to computer science.]
- Understand series and sequences and their importance in computer science.

Operating Systems

100 hours

- Understand the essential function and architecture of modern operating systems.
- Understand process management techniques used by modern operating systems.
- Be able to write programs at the kernel level.
- Understand memory and I/O management techniques used by modern operating systems.
- Understand the principles of and potential problems with concurrency in operating systems.

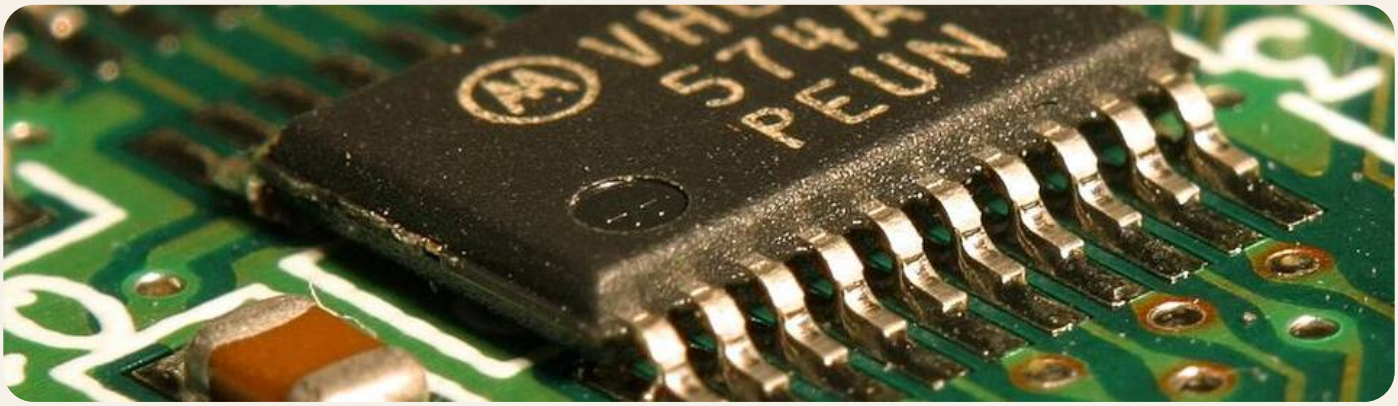
The learning outcomes OTHM Qualifications publishes for each unit. The assessment criteria beneath them are on the qualification page.

6	27	600
UNITS TO COMPLETE	LEARNING OUTCOMES	GUIDED LEARNING HOURS

Guided learning hours are the taught time OTHM Qualifications specifies. Your own study time is on top, and how long you take is up to you.

HOW IT WORKS

From your first unit to your certificate



01

You produce evidence

A portfolio of your own work, against the published criteria.

02

An assessor marks it

Qualified, and required to show current competence in the sector they assess.

03

The marking is checked

Sampled internally each term, and quality assured by OTHM Qualifications from outside the school.

04

OTHM Qualifications certificates you

We claim it from OTHM Qualifications. Recognised independently of us.

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WHAT WE COMMIT TO

Answers, in working days

Within 2 working days
General questions

Within 10 working days of submission
Assessment feedback

Within 1 working day
Technical problems

Within 1 working day
Urgent welfare concerns

Published in DAIS-POL-024 Online Learning and Digital Delivery, and on every course page.

GETTING ON

Entry requirements

- These qualifications are designed for learners who are typically aged 18 and above.
- The entry profile for learners is likely to include at least one of the following:
- Relevant Level 3 Diploma qualification or equivalent qualification
- GCE Advanced level in 3 subjects or equivalent qualification
- Mature learners (over 21) with relevant management experience (learners must check with the delivery centre regarding this experience prior to registering for the programme)
- You will need your own computer that can run virtual machine software, and on which you are allowed to install it, because some of the assessed work is carried out in a sandboxed environment such as a virtual machine.

This qualification does not carry UCAS Tariff points, because UCAS gives points to Level 3 qualifications only.

THE COST

How paying works

TWO WAYS

Pay in full, which costs less than the published fee, or pay monthly. No interest and no credit agreement, and the payments stop on their own.

THE CURRENT FEE

On the qualification page at dataaischool.com, or ask us and we will tell you. It is not printed here, so nothing in this guide can quote you a price we are no longer charging.

Nothing is paid when you apply. Payment is taken only after you accept an offer, and we confirm the amounts with you first.

How long it takes. 600 guided learning hours, 1200 total qualification time, 120 credits

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BEFORE YOU START

What you need to take part



Device
Laptop or desktop computer

Operating system
Windows 10 or macOS 10.15 or later

Browser
Google Chrome or Mozilla Firefox, latest version

Internet speed
10 Mbps download and 5 Mbps upload

Webcam
Required for live sessions and identity verification

Microphone
Required for live sessions

Published in DAIS-POL-024, and told to every learner before enrolment.

IN MORE DETAIL

About this qualification

The qualification carries 120 credits, 1200 hours of total qualification time and 600 guided learning hours. Every unit is internally assessed by the centre and externally verified by OTHM Qualifications, and each unit is graded Pass or Fail.

ASKED BEFORE

Questions people ask

Who awards OTHM Level 4 Diploma in Cyber Security, and how do I get my certificate?

OTHM Level 4 Diploma in Cyber Security is awarded by OTHM Qualifications. The qualification number is 610/5103/2. The Data and AI School of London is an OTHM Qualifications approved centre. Once your work is assessed and quality assured we claim your certificate from OTHM Qualifications, …

How long does OTHM Level 4 Diploma in Cyber Security take?

This qualification carries 600 guided learning hours and a total qualification time of 1200 hours. It is studied online at your own pace, so how long it takes in calendar time depends on how much you can commit each week.

What do I need before I can start?

These qualifications are designed for learners who are typically aged 18 and above. We assess every applicant individually and will tell you if a different level would suit you better.

Can I study this entirely online?

Yes. Teaching, materials and assessment are all delivered through our Moodle-based virtual learning environment, so you can study from anywhere in the UK. You need a laptop or desktop computer, a current version of Chrome or Firefox, and a broadband connection of at least 10 …

Can I enrol now, and when do I pay?

Enrolment is open, so you can apply online today. Nothing is paid at application: payment is taken only after you accept an offer. The current fee is on the qualification page at dataaischool.com, or ask us and we will tell you.

The same answers as the qualification page, built from the same record.

NEXT STEP

Apply, or ask us first

Applying costs nothing and commits you to nothing. Eight short steps, no card details and no deposit. We check the qualification suits you and say so if another fits better, and payment is taken only after you accept an offer.

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Scan for the full details

The Data and AI School of London. OTHM Qualifications approved centre. Office LG06, 1 Quality Court, Chancery Lane, London WC2A 1HR. Company 16953235. ICO ZC086597.

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