

Higher National Level 4 Flex – Database Design & Development



Subject Area	Digital
Course Type	Higher Education
Study Level	Level 4
Delivery Mode	Part-time
Duration	12 Weeks
Start Date	
Course Code	HA000008

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Course Summary

The **HN Flex in Database Design and Development** module is your gateway to mastering the principles and practices of modern database systems. Designed for busy professionals, this short course provides a flexible, blended learning experience that combines face-to-face sessions with the convenience of online learning—ideal for fitting around your work schedule. Whether you are pursuing a longer HNC qualification or simply looking to expand your expertise, this course can be taken as a standalone module or as part of a broader programme.

In this course, you'll gain a deep understanding of both the theoretical and practical aspects of database design and development. You'll explore the essential concepts behind building and managing complex databases, from relational database structures to the more advanced features of database management systems (DBMS). Through hands-on activities, you will develop the technical skills required to design, implement, and maintain databases that meet real-world business needs.

Throughout the module, you'll work with industry-standard tools and techniques, equipping you to tackle challenges such as data normalization, schema design, and query optimization. You'll also gain insight into best practices for database security, scalability,

and performance, giving you the confidence to build robust systems that stand up to the demands of modern businesses.

This course is ideal for professionals who want to gain a solid foundation in database management or take their existing skills to the next level. You'll leave with practical knowledge that you can immediately apply in your workplace, whether you're managing an existing database, designing new systems, or looking to optimize performance.

What You Will Learn

Upon successful completion of this unit, you will be able to use appropriate tools to design and develop a relational database system for a substantial problem.

You will test the system to ensure it meets user and system requirements and provide comprehensive technical and user documentation.

You will develop essential skills such as communication literacy, critical thinking, analysis, reasoning, and interpretation, which are vital for employment and academic success.

Modules

- Database design fundamentals
- Database development and implementation
- System testing and validation
- Technical and user documentation
- Communication and critical thinking skills

Progression

Each module is worth 15 credits. If you successfully complete one, two or three modules, you will receive a Certificate of Unit Credit (CoUC) upon completion of the individual units. If you finish 8 units, you will be awarded a HNC. You can progress onto other units, and then onto a HNC or HND.

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