Award No: **G8L4 48**   Level: **SCQF Level 8**

Award Title: **Professional Development Award in Database Programming at SCQF[1] Level 8**

Introduction to the Award

This Professional Development Award (PDA) is one of a suite, which is designed to incorporate the knowledge and understanding required by popular vendor* awards into SQA's Higher National Computing framework.

A collaborative project undertaken by SQA and Oracle Corporation, identified areas where the Oracle Internet Academy could be aligned with both upper secondary and HN curricula, allowing the Oracle Internet Academy Programme to be embedded into courses in Scottish schools and colleges.

The units, which make up this PDA in Database Programming at SCQF Level 8 include vendor-related topics but are generic in nature with units in certain HN frameworks. Including these PDAs in the HN frameworks, allows candidates to work towards a Higher National qualification through short courses or part time study.

World wide, vendor qualifications are increasingly popular with both candidates and employers across the computing industry sectors and all organisations employing IT specialist staff.

Target Audience

This PDA is based on the knowledge and understanding associated with the Oracle Internet Academy Programme and will be attractive to candidates seeking a position as a database programmer, developer, administrator or those wanting to certificate their existing skills in a similar role prior to progressing their careers further.

This PDA Award can help candidates prepare for the Introduction to Oracle 9i SQL Certification exam.

*Vendor Awards are those Awards designed and certificated by a product manufacturer or trade alliance organisation.

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[1] SCQF (Scottish Credit and Qualifications Framework) helps people to understand and compare different qualifications in Scotland. (visit the website www.scqf.org.uk for more information)

Content and Structure of the award

On successful completion of this award, candidates will receive the Professional Development Award, in addition to the four separate units listed below, endorsed on their Scottish Qualifications Certificate (SQC).

Candidates must attain all **four** mandatory units to achieve the award, one unit at SCQF Level 7 and three units at SCQF Level 8.

UNIT TITLE	CODE	CREDIT VALUE	*SCQF LEVEL
SQL: Introduction	DH3J 34	1	7
Software Development: Relational Database Systems	DH3D 35	2	8
Software Development: Structured Programming	DH3E 35	2	8
Software Development: Object Oriented Programming	DH3C 35	2	8

*The Scottish Credit & Qualifications Framework (SCQF) is a way of helping people understand and compare Scottish Qualifications, by giving them credit points which shows how much learning has been achieved and a level on a scale of 12, to show how demanding the learning is.   Details can be found at www.scqf.org.uk.

At the end of the award candidates will be able to:

- Create and maintain a data storage system
- Manipulate data stored within a table structure and produce formatted reports
- Explain the terminology and techniques used in the design of relational information systems
- Create a relational database design from user requirements
- Describe the issues involved in implementing a relational database system
- Implement structures and manipulate data in a relational database management system
- Use a programming language to interface with a relational database management system
- Use programming techniques to develop program modules
- Implement a solution from a design and test the completed product
- Create technical and user documentation

Centre Contact details