

## MODULE DESCRIPTOR

### Module Title

Managing Subsurface Exploration And Production Data

Reference	CB3965	Version	1
Created	January 2020	SCQF Level	SCQF 9
Approved	June 2016	SCQF Points	15
Amended	August 2017	ECTS Points	7.5

### Aims of Module

The aim of this module is to enable students to develop knowledge and understanding of subsurface exploration and production data and evaluate its importance to the upstream oil and gas business.

### Learning Outcomes for Module

On completion of this module, students are expected to be able to:

- 1 Describe the upstream oil and gas industry, the activities that use and generate subsurface data and the associated costs and value of the data.
- 2 Differentiate between data, information and knowledge and judge whether the difference is significant in different scenarios.
- 3 Evaluate and articulate the scope and value of information management in the upstream oil and gas industry in the context of information need.
- 4 Understand and convey the lifecycle of subsurface exploration and production data and related information management issues.
- 5 Evaluate the organisational context for data management and relationships with other disciplines including Geomatics, GIS and Information Technology.

### Indicative Module Content

Exploration and Production terminology; Introduction to petroleum geology; Subsurface data types and data life cycle; Information management; Wells and well information; Acquisition of well data; Acquisition and processing of seismic data; Acquisition of drilling and production related data and information and its uses; Interpretation and use of well and seismic data; Organisational context for data management; Business value of subsurface data management.

### Module Delivery

Online distance learning

**Indicative Student Workload**

	Full Time	Part Time
Contact Hours	N/A	24
Non-Contact Hours	N/A	126
Placement/Work-Based Learning Experience [Notional] Hours	N/A	N/A
TOTAL	N/A	150
Actual Placement hours for professional, statutory or regulatory body		

**ASSESSMENT PLAN**

If a major/minor model is used and box is ticked, % weightings below are indicative only.

**Component 1**

Type:	Coursework	Weighting:	100%	Outcomes Assessed:	1, 2, 3, 4, 5
Description:	Individual Portfolio Assessment				

**MODULE PERFORMANCE DESCRIPTOR****Explanatory Text**

The calculation of the overall grade for this module is based on 100% weighting of C1. An overall minimum grade D is required to pass the module.

Module Grade	Minimum Requirements to achieve Module Grade:
<b>A</b>	The student needs to achieve an A in C1.
<b>B</b>	The student needs to achieve a B in C1.
<b>C</b>	The student needs to achieve a C in C1.
<b>D</b>	The student needs to achieve a D in C1.
<b>E</b>	The student needs to achieve an E in C1.
<b>F</b>	The student needs to achieve an F in C1.
<b>NS</b>	Non-submission of work by published deadline or non-attendance for examination

**Module Requirements**

Prerequisites for Module	None.
Corequisites for module	None.
Precluded Modules	None.

**ADDITIONAL NOTES**

This module starts in September for students undertaking it as part of Graduate Certificate Petroleum Data Management. The module is also available as a Short Course for Continuing Professional Development starting in either September or January for 16 weeks.

**INDICATIVE BIBLIOGRAPHY**

- 1 CDA/SCHLUMBERGER, 2011. *The business value for data management: a case study*.
- 2 HAWTIN, S., 2013. *The management of oil industry exploration and production data*. London: CreateSpace.
- 3 KUIJK, H.J.A.V., 2011. *Five pillars of knowledge, information and data management*. London: CreateSpace.
- 4 SPEIGHT J.G., 2015. *Handbook of offshore oil and gas operations*. Waltham, MA : Gulf Professional Publications.