

OIL & GAS TECHNOLOGY

Course Introduction

by

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Chapter Description

- Aims
 - This course introduces the concept of upstream, midstream and downstream activities of the oil and gas industry. By the end of this course, readers should be able to identify and describe the main branches of petroleum exploration and exploitation activities such as geology, drilling, reservoir engineering and production. Readers should also be able to explain the stages and process of hydrocarbon formation, how it is found and later produced. To complete the understanding of the oil and gas life cycle, the midstream and downstream aspects of the oil and gas industry such as, topsides facilities, refinery operations, gas processing, product transportation as well as economy aspects and current issues affecting the industry will also be covered.
- Expected Outcomes
 - Understand the fundamental concept of upstream, midstream and downstream operations and their value chains.
 - Understand the various of petroleum agreements related to oil and gas industry in Malaysia.
 - Explain the various unconventional resources of oil and gas.
 - Evaluate the current issues and environmental effects in oil and gas industry.
- References
 - Håvard Devold, 2013, Oil and gas production handbook: An introduction to oil and gas production, transport, refining and petrochemical industry, ABB ATPA Oil and Gas.



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Content

Chapter 1: Introduction to Oil and Gas Industry Activities

Chapter 2: Upstream Operations

Chapter 3: Midstream Operations

Chapter 4: Downstream Operations

Chapter 5: The Oil and Gas Industry Value Chain in Malaysia

Chapter 6: Unconventional and conventional resources and environmental effect



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THANK YOU.



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