

CITY & GUILDS LEVEL 3 IVQ ADVANCED DIPLOMA IN OIL AND GAS OPERATIONS



AIM OF THE QUALIFICATION

The Level 3 IVQ Advanced Diploma in Oil and Gas Operations (8510) focuses on the development of the underlying principles and practical skills required in the oil and gas industry. The qualification is designed to deliver a high level of occupational capability and provide a sound foundation for progression.

The aims of this qualification are to:

- meet the needs of learners who work or want to work in the oil and gas industry
- provide a broad background understanding of the oil and gas industry and the practical skills and knowledge required
- allow learners to learn, develop and practice the skills required for employment and/or career progression in the oil and gas industry
- provide an awareness of the range of jobs and work settings in the oil and gas industry
- introduce learners to the disciplines of the workplace
- enable learners to make an informed assessment of their own aptitude for work in the oil and gas industry and to make informed decisions about careers, returning to work, career development options or possible career change
- encourage learners to reach a level of knowledge and skills that will facilitate progress in employment in the oil and gas industry or to further learning
- encourage learners to value continued learning and to remain in the learning process.

CANDIDATE ENTRY REQUIREMENTS

There are no formal entry requirements for candidates undertaking this qualification. However, centres must ensure that candidates have the potential and opportunity to successfully gain the qualification. Thus, we suggest minimum of a diploma or SKM Level 3 holder for local applicants and A-Level qualification holder for international applicants.

Candidates must have an adequate level of English speaking, reading, listening and writing skills to competently cover aspects of this qualification such as answering underpinning knowledge questions orally and/or in writing, and reading assessor notes regarding their observations.

Aids or appliances which are designed to alleviate disability may be used during assessment providing they do not compromise the standard required

ACCREDITATION ON THE NATIONAL QUALIFICATIONS FRAMEWORK

The Level 3 IVQ Advanced Diploma in Oil and Gas Operations (8510) is accredited at level 3 of the National Qualifications Framework of England, Wales and Northern Ireland (NQF).

ABOUT THE QUALIFICATION

The IVQ Advanced Diploma in Oil and Gas Maintenance covers a number of key areas, including:

- Maintenance of mechanical and electrical plant and equipment
- Dealing with defects in mechanical and electrical equipment
- Maintenance of instrumentation and control plant and equipment
- Systems for oil and gas maintenance
- Health and safety at work.

The range of subjects you cover will depend on the specialisation you choose.

The IVQ Advanced Diploma in Oil and Gas Maintenance is assessed on the submission of a portfolio of evidence to cover the practical and underpinning knowledge criteria. This portfolio may include simulated tasks, assessor observation, and knowledge tests carried out by the centre

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There are four pathways available to candidates, depending on candidate requirements and experience:

- Mechanical Maintenance Technician
- Electrical Maintenance Technician
- Instrumentation Maintenance Technician
- Process Technician.

Candidates will receive a certificate for each Advanced Award stage they achieve, starting with the core skills of their chosen pathway. The full Level 3 IVQ Advanced Diploma in Oil and Gas Operations certificate will be achieved on completion of the third stage of each pathway.

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Level 3 IVQ Advanced Diploma in Oil and Gas Operations

(Mechanical Maintenance Technician)

C&G qualification number: 8510-03

Accreditation number: 500/6071/5

Location: Malaysia

Duration: 12 Month

ABOUT THIS COURSE

This qualification will provide you with the practical skills and knowledge to undertake an operational role in chemical, hydrocarbons or refining sectors. You will apply safe working practices and follow emergency response procedures. You will learn to operate a production unit, process control and monitor systems and equipment.

AIM OF QUALIFICATION

- Meet the needs of learners who work or want to work in the oil and gas industry.
- Provide a broad background understanding of the oil and gas industry and the practical skills and knowledge required.
- Allow learners to learn, develop and practice the skills required for employment and/or career progression in the oil and gas industry.
- Provide an awareness of the range of jobs and work settings in the oil and gas industry.
- Introduce learners to the disciplines of the workplace.
- Enable learners to make an informed assessment of their own aptitude for work in the oil and gas industry and to make informed decisions about careers, returning to work, career development options or possible career change.
- Encourage learners to reach a level of knowledge and skills that will facilitate progress in employment in the oil and gas industry or to further learning
- Encourage learners to value continued learning and to remain in the learning process

COURSE CONTENT

STAGE ONE (Mandatory Units)

- Unit 001 Handing over processes, plant and equipment
- Unit 002 Restoring the workplace after completing the maintenance procedures of plant
- Unit 003 Minimizing and reducing risks to life, property and the environment at work, plant and equipment
- Unit 004 Operating safely at work, minimizing risks and complying with emergency procedures
- Unit 005 Participating in activities to develop effective working relationships
- Unit 006 Arranging and preparing the workplace for the maintenance of plant and equipment

STAGE TWO (3 Mandatory Units + 2 Optional Units)

- Unit 007 Performing maintenance procedures on mechanical plant and equipment
- Unit 008 Assessing and dealing with defects and variations in mechanical plant and equipment
- Unit 009 Identifying and analyzing the causes of defects in mechanical plant and equipment

Unit 010 Arranging equipment in preparation for mechanical engineering activities

Unit 011 Preparing materials for the maintenance of mechanical plant and equipment

Unit 012 Modifying mechanical plant and equipment to meet operational requirements

Unit 013 Removing components from mechanical plant and equipment

Unit 014 Replacing components in mechanical plant and equipment

Unit 015 Establishing the viability of repairing components from mechanical plant and equipment

STAGE THREE (2 Optional Units)

Unit 016 Understanding and analyzing detailed mechanical information from technical sources

Unit 017 Obtaining information from mechanical engineering drawings and specifications

Unit 018 Analyzing and recommending improvements to maintenance procedures for mechanical plant and equipment

Unit 019 Verifying that mechanical engineering processes have been completed to required specifications

Unit 020 Examining the performance and state of mechanical plant and equipment

Unit 021 Monitoring the performance and state of mechanical plant and equipment

Unit 022 Assessing the performance and state of mechanical plant and equipment

Unit 023 Examining mechanical plant and equipment

Level 3 IVQ Advanced Diploma in Oil and Gas Operations

(Electrical Maintenance Technician)

C&G qualification number: 8510-05

Accreditation number: 500/6071/5

LOCATION: Malaysia

DURATION: 12 Month

ABOUT THIS COURSE

This qualification will provide you with the practical skills and knowledge to undertake an operational role in chemical, hydrocarbons or refining sectors. You will apply safe working practices and follow emergency response procedures. You will learn to operate a production unit, process control and monitor systems and equipment.

AIM OF QUALIFICATION

Meet the needs of learners who work or want to work in the oil and gas industry.

Provide a broad background understanding of the oil and gas industry and the practical skills and knowledge required.

Allow learners to learn, develop and practice the skills required for employment and/or career progression in the oil and gas industry.



Provide an awareness of the range of jobs and work settings in the oil and gas industry.

Introduce learners to the disciplines of the workplace.

Enable learners to make an informed assessment of their own aptitude for work in the oil and gas industry and to make informed decisions about careers, returning to work, career development options or possible career change.

Encourage learners to reach a level of knowledge and skills that will facilitate progress in employment in the oil and gas industry or to further learning

Encourage learners to value continued learning and to remain in the learning process

COURSE CONTENT

STAGE ONE (Mandatory Units)

Unit 001 Handing over processes, plant and equipment

Unit 002 Restoring the workplace after completing the maintenance procedures of plant

Unit 003 Minimizing and reducing risks to life, property and the environment at work, plant and equipment

Unit 004 Operating safely at work, minimizing risks and complying with emergency procedures

Unit 005 Participating in activities to develop effective working relationships

Unit 006 Arranging and preparing the workplace for the maintenance of plant and equipment

STAGE TWO (3 Mandatory Units + 2 Optional Units)



Unit 024 Performing maintenance procedures on electrical plant and equipment

Unit 025 Assessing and dealing with defects and variations in electrical plant and equipment

Unit 026 Identifying and analyzing the causes of defects in electrical plant and equipment

Unit 027 Arranging equipment in preparation for electrical engineering activities

Unit 028 Preparing materials for the maintenance of electrical plant and equipment

Unit 029 Modifying electrical plant and equipment to meet operational requirements

Unit 030 Removing components from electrical plant and equipment

Unit 031 Replacing components in electrical plant and equipment

Unit 032 Establishing the viability of repairing components from electrical plant and equipment

STAGE THREE (2 Optional Units)

Unit 033 Understanding and analyzing detailed electrical information from technical resources

Unit 034 Obtaining information from engineering diagrams and specifications

Unit 035 Analyzing and recommending improvements to maintenance procedures for electrical plant and equipment

Unit 036 Verifying that electrical engineering processes have been completed to required specifications

Unit 037 Examining the performance and state of electrical plant and equipment

Unit 038 Monitoring the performance and state of electrical plant and equipment

Unit 039 Assessing the performance and state of electrical plant and equipment

Unit 040 Examining electrical plant and equipment

Level 3 IVQ Advanced Diploma in Oil and Gas Operations

(Instrumentation Maintenance Technician)

C&G qualification number: 8510-07

Accreditation number: 500/6071/5

LOCATION: Malaysia

DURATION: 12 Month

ABOUT THIS COURSE

This qualification will provide you with the practical skills and knowledge to undertake an operational role in chemical, hydrocarbons or refining sectors. You will apply safe working practices and follow emergency response procedures. You will learn to operate a production unit, process control and monitor systems and equipment.

AIM OF QUALIFICATION

Meet the needs of learners who work or want to work in the oil and gas industry.

Provide a broad background understanding of the oil and gas industry and the practical skills and knowledge required.

Allow learners to learn, develop and practice the skills required for employment and/or career progression in the oil and gas industry.

Provide an awareness of the range of jobs and work settings in the oil and gas industry.

Introduce learners to the disciplines of the workplace.

Enable learners to make an informed assessment of their own aptitude for work in the oil and gas industry and to make informed decisions about careers, returning to work, career development options or possible career change.

Encourage learners to reach a level of knowledge and skills that will facilitate progress in employment in the oil and gas industry or to further learning

Encourage learners to value continued learning and to remain in the learning process

COURSE CONTENT

STAGE ONE (Mandatory Unit)

Unit 001 Handing over processes, plant and equipment

Unit 002 Restoring the workplace after completing the maintenance procedures of plant

Unit 003 Minimizing and reducing risks to life, property and the environment at work, plant and equipment

Unit 004 Operating safely at work, minimizing risks and complying with emergency procedures

Unit 005 Participating in activities to develop effective working relationships

Unit 006 Arranging and preparing the workplace for the maintenance of plant and equipment

STAGE TWO (3 Mandatory Units + 2 Optional Units)

Unit 041 Performing maintenance procedures on instrumentation and control plant and equipment

Unit 042 Assessing and dealing with defects and variations in instrumentation and control plant and equipment

Unit 043 Identifying and analyzing the causes of defects in instrumentation and control plant and equipment

Unit 044 Arranging equipment in preparation for instrumentation and control engineering activities

Unit 045 Preparing materials for the maintenance of instrumentation and control plant and equipment

Unit 046 Modifying instrumentation and control plant and equipment to meet operational requirements

Unit 047 Removing components from instrumentation and control plant and equipment

Unit 048 Replacing components in instrumentation and control plant and equipment

Unit 049 Establishing the viability of repairing components from instrumentation and control plant and equipment

STAGE THREE (2 Optional Units)

Unit 050 Understanding and analyzing detailed instrumentation and control information from technical resources

Unit 051 Obtaining information from instrumentation and control engineering diagrams and specifications

Unit 052 Analyzing and recommending improvements to maintenance procedures for instrumentation and control plant and equipment

Unit 053 Verifying that instrumentation and control engineering processes have been completed to the required specifications

Unit 054 Examining the performance and state of instrumentation and control plant and equipment

Unit 055 Monitoring the performance and state of instrumentation and control plant and equipment

Unit 056 Assessing the performance and state of instrumentation and control plant and equipment

Unit 057 Examining instrumentation and control plant and equipment



Level 3 IVQ Advanced Diploma in Oil and Gas Operations

(Process Technician)

C&G qualification number: 8510-10

Accreditation number: 500/6071/5

LOCATION: Malaysia

DURATION: 12 Month

ABOUT THIS COURSE

This qualification will provide you with the practical skills and knowledge to undertake an operational role in chemical, hydrocarbons or refining sectors. You will apply safe working practices and follow emergency response procedures. You will learn to operate a production unit, process control and monitor systems and equipment.

AIM OF QUALIFICATION

Meet the needs of learners who work or want to work in the oil and gas industry.

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Allow learners to learn, develop and practice the skills required for employment and/or career progression in the oil and gas industry.

Provide an awareness of the range of jobs and work settings in the oil and gas industry.

Introduce learners to the disciplines of the workplace.

Enable learners to make an informed assessment of their own aptitude for work in the oil and gas industry and to make informed decisions about careers, returning to work, career development options or possible career change.

Encourage learners to reach a level of knowledge and skills that will facilitate progress in employment in the oil and gas industry or to further learning

Encourage learners to value continued learning and to remain in the learning process

COURSE CONTENT

STAGE ONE (Mandatory Units)

Unit 058 Setting up systems for start up in oil and gas operations

Unit 059 Functioning, operating and checking integrated systems

STAGE TWO (Mandatory Units)

Unit 060 Organizing integrated systems for shutdown

Unit 061 Isolating and restoring plant equipment in oil and gas operations

STAGE THREE (Mandatory Units)

Unit 062 Checking and upholding health and safety processes

Unit 063 Managing emergencies and critical circumstances

Unit 064 Developing, sustaining and improving productive working relationships