



## iSkill™ ISQ in Marking and Fitting (Oil and Gas Industry)

BDQF Level 2

### What is an iSkill™ Qualification Programme

iSkill™ is a new programme, developed in close collaboration between the relevant industry with the support of the Manpower Industry Steering Committee Working Group together with Institute of Brunei Technical Education (IBTE).

iSkill™ programmes are designed to match the industry needs and expectations of our local workforce, opening up potential job opportunities leading to professional career pathway in the relevant skill pools.

iSkill™ programmes are developed to meet the international standards and aim to produce skilled workforce with greater occupational skill level in support of Brunei Wawasan 2035.

### Who is it for?

iSkill™ ISQ in Marking and Fitting (Oil and Gas Industry) are for Bruneians who wish to seek a professional skills career as a **qualified Marker Fitter** in the oil and gas industry.

### Qualification specification:

<b>What is included in the qualification?</b>	<p>The qualification has been designed to provide the relevant occupational knowledge and skills required to progress to towards becoming a competent Marker Fitter in the oil and gas industry.</p> <p>The qualification also provides learners with the necessary skills and knowledge to prepare them to undertake recognized Marker/Fitter certification</p>
<b>What progression routes are there?</b>	<p>The qualification provides learners with the opportunity to progress and develop to advanced career roles or to undertake iSkills™ advanced awards in Marking and Fitting (Oil and Gas Industry) and enhance their Marker/Fitter subject knowledge and skills.</p>

### Qualification structure:

Unit No	Unit Code	Unit title	Recommended Guided Learning Hours (GLH)
01	iSkills-GEN-01-00	Islamic religious knowledge	50
02	iSkills-GEN-02-00	Malay Islamic monarchy (Melayu Islam Beraja)	50
03	iSkills-GEN-03-01	Workplace information technology	30
04	iSkills-GEN-04-01	Workplace numeracy	30
05	iSkills-GEN-05-01	Workplace communication	40
06	iSkills-GEN-06-00	Life skills for personal development	--
07	iSkills-GEN-07-04	Understand health, safety and environment processes for marking and fitting in the oil and gas industry	120
08	iSkills-GEN-08-04	Apply health, safety and environment practices for marking and fitting in the oil and gas industry	80
09	iSkills-GEN-09-00	Engineering science	50
10	iSkills-GEN-10-00	Oil and gas industry operation (Brunei)	50
11	iSkills-MFR-01-00	Introduction to marker/fitter	45
12	iSkills-MFR-02-00	Hand tools and measuring skills	110
13	iSkills-MFR-03-00	Engineering drawing	50
14	iSkills-MFR-04-00	Welding and cutting technology	75
15	iSkills-MFR-05-00	Marking and fitting	120
Total recommended Guided Learning Hours (GLH)			<b>900</b>
Total recommended Total Qualification Time (TQT)*			<b>1600</b>

**\*Total Qualification Time (TQT)** is the total amount of time, in hours, expected to be spent by a Learner to achieve a qualification. TQT includes both guided learning hours (GLH) and other hours to be used in assessment preparation, skills and knowledge study and also the assessments themselves.

### Assessment criteria

These will be defined and expressed in an assessment specification for this qualification.

<b>Assignment</b>	<p>An assignment is a task/problem-based assessment with clear guidelines and structure</p> <ul style="list-style-type: none"> <li>Assignments provide opportunities for learners to demonstrate their practical skills, knowledge and understanding for defined learning outcomes (as specified by the unit assessment requirements)</li> <li>Assignments are internally set by the training provider to meet specified unit assessment learning outcomes</li> <li>Assignments can be open or closed book (as specified by the unit requirements)</li> <li>Assignments do not require invigilation but must be the learner's own work</li> <li>Assignments are marked by occupationally competent staff and quality assured by the training provider</li> </ul>
<b>Examination</b>	<p>An exam is an oral or written set of; internally set and internally marked questions</p> <ul style="list-style-type: none"> <li>Exams can be open or closed book (as specified by the unit requirements)</li> <li>Exams are assessments carried out under controlled invigilated conditions</li> <li>Exams are marked by technically competent staff and quality assured by the training provider</li> </ul>
<b>Portfolio</b>	<p>A portfolio of evidence contains the proof that a learner has attained, and can apply, the knowledge, skills and behaviours defined in the qualification units. Evidence that is sourced from industry placement for performance learning outcomes must be naturally occurring and assessed on a minimum of two occasions.</p>

**Life Skills for Personal Development:** In addition to the formal assessment methods defined, the qualification also includes an assessment unit based on personal development. This relates to appropriate behaviours being demonstrated by a learner throughout the qualification duration. Although the elements of these behaviours are discrete, they are assessed by the award tutor/assessor as part of embedded performance within the formal assessed award units.

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**Programme Objectives:** To provide knowledge and the necessary skills for a fitter such as fitting and assembling parts and sub-assemblies made from metal and other materials to make or repair machinery plant and equipment. A fitter is required to work from detailed engineering drawings or specifications using hand and machine tools and precision measuring instruments and to take instructions and directions from managers, supervisors and technicians.

**Expectations:** At the end of the programme, the students will be able to: Use a broad range of engineering hand tools and hand held power tools • Mark the shape and dimensions of a part to be machined or fitted by studying blueprints and using measuring instruments • Assemble and fit machined parts using drill holes and tap threads, is necessary, for bolting parts together • Check tightness of joints and operation of moving parts, and file or chisel parts to make final adjustments if the fit is not perfect • Cut, thread, bend and install hydraulic and pneumatic pipes and lines • Clean and lubricate assembled articles • Shrink-fit parts during assembly using oxy-acetylene torches and presses, dry ice and carbon dioxide freezing • Manufacture, repair and fault-find hydraulic and pneumatic equipment • Operate powered machines that may be manually or computer controlled • Erect machinery and equipment on site • inspect machinery regularly and make any adjustments or repairs needed • Carry out preventative maintenance on mechanical equipment • Read and interpret drawings, blueprints, technical manuals and instruction sheet • Demonstrate good workplace safety • Demonstrate manual dexterity

## Entry Requirements:

- Completion of Year 10 (Express) or Year 11 or any equivalent qualifications
- Age 18 to 25
- Pass interview

- No color appreciation deficiency
- Able to work in extreme environments (heat, outdoor and height)
- Pass Medical Fitness

## Programme Structure:

Semester 1: IBTE	Semester 2: RTO
<ul style="list-style-type: none"> <li>➤ Islamic Religious Knowledge (5CV)</li> <li>➤ Melayu Islam Beraja (5CV)</li> <li>➤ Life Skills for Workplace (10CV)</li> <li>➤ HSSE (15CV)</li> <li>➤ Introduction to Oil and Gas Industry (5CV)</li> <li>➤ Fundamental Engineering Science (5CV)</li> </ul>	<ul style="list-style-type: none"> <li>➤ Introduction to Marking and Fitting (5CV)</li> <li>➤ HSE in Marking and Fitting (5CV)</li> <li>➤ Technical Drawing for Marking and Fitting (5CV)</li> <li>➤ Marking and Pipe Fitting (15CV)</li> <li>➤ Basic Welding, Gas Cutting and Grinding (10CV)</li> <li>➤ Industrial Placement</li> </ul>
LIFE SKILL PERSONAL DEVELOPMENT	

\*1 CV = 10 hours

## Duration:

1 year full time programme inclusive of 3 months Industrial Placement

## Mode of Training:



## Award:

IBTE Industrial Skills Qualification (ISQ) Certification with satisfactory passed and fulfilled the followings:

1. A minimum 85% of the overall attendance,
2. Accumulate the required numbers of credits for the programme of study, **AND**
  - a) Passed the certification issued by the Registered Training Organisation (RTO), **OR**
  - b) Passed the Trade Test set by the relevant industry bodies



*"Inspiring Bruneians Towards Excellence"*

## IBTE Vision

A Dynamic Technical Education Institution embracing Lifelong Learning

## IBTE MISSION

"Nurturing Learners to Be Highly Competent and Socially Responsible Towards Building A Dynamic Economy"

## For more information, please contact:

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