



اوتوريتي كبحثسان كسلامتن
كصيحتن دان عالم سكيتر
Safety Health and Environment
National Authority

BRUNEI INDUSTRY GROUP (BIG) FORUM

Main Theatre, Level 1,
Prime Minister's Office Building Complex

Tuesday, 25th June 2019

AGENDA



السلطة الوطنية
للبيئة والصحة والسلامة
SHENA
Safety, Health and Environment
National Authority

OPENING

0800 – 0845

Registration

0800 – 0845

Refreshment

0850

Safety Briefing

0855

Al-Fatihah and Doa
Selamat

0900 - 0910

Opening Remarks

SESSION

1

0910 – 0920

SHENA Background
& Organisation

0920 – 0930

Legislation/ Law
update/ position

0930 - 0950

SHENA Current
Status and Way
Forward

0950 - 1000

Q&A



SESSION

2

1000 – 1010

2019-21 Themes

1010 – 1020

Introduction to
'Guidelines for the
Safe Use of
Scaffolding'

1020 - 1030

Crane Operations

1030 - 1040

Q&A



SESSION

3

1040 – 1100

WSH Legal
Positions and
Training

1100 – 1115

Radiation
Licensing Activities

1115 - 1145

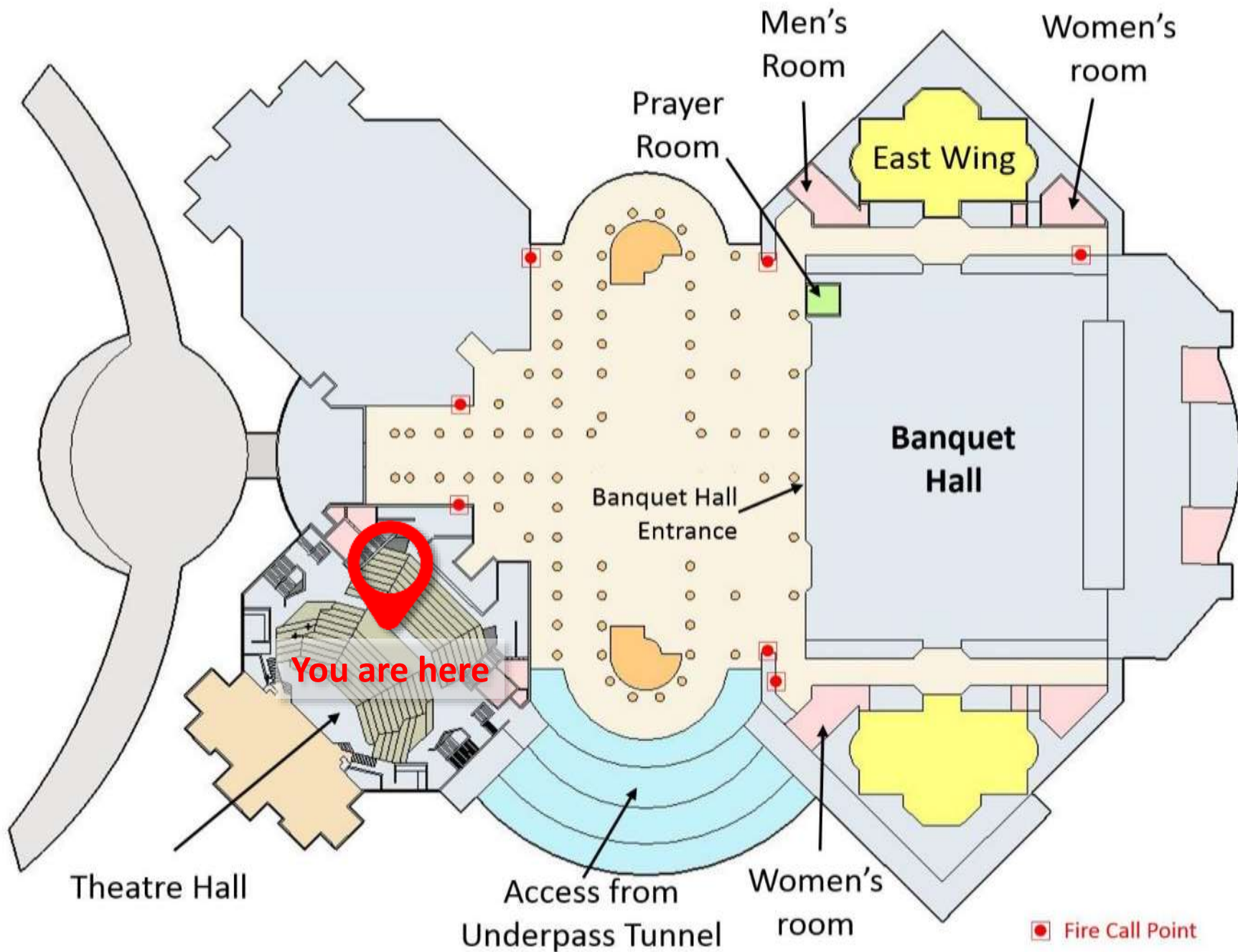
Q&A





Safety Briefing

Venue
Main Theatre Hall

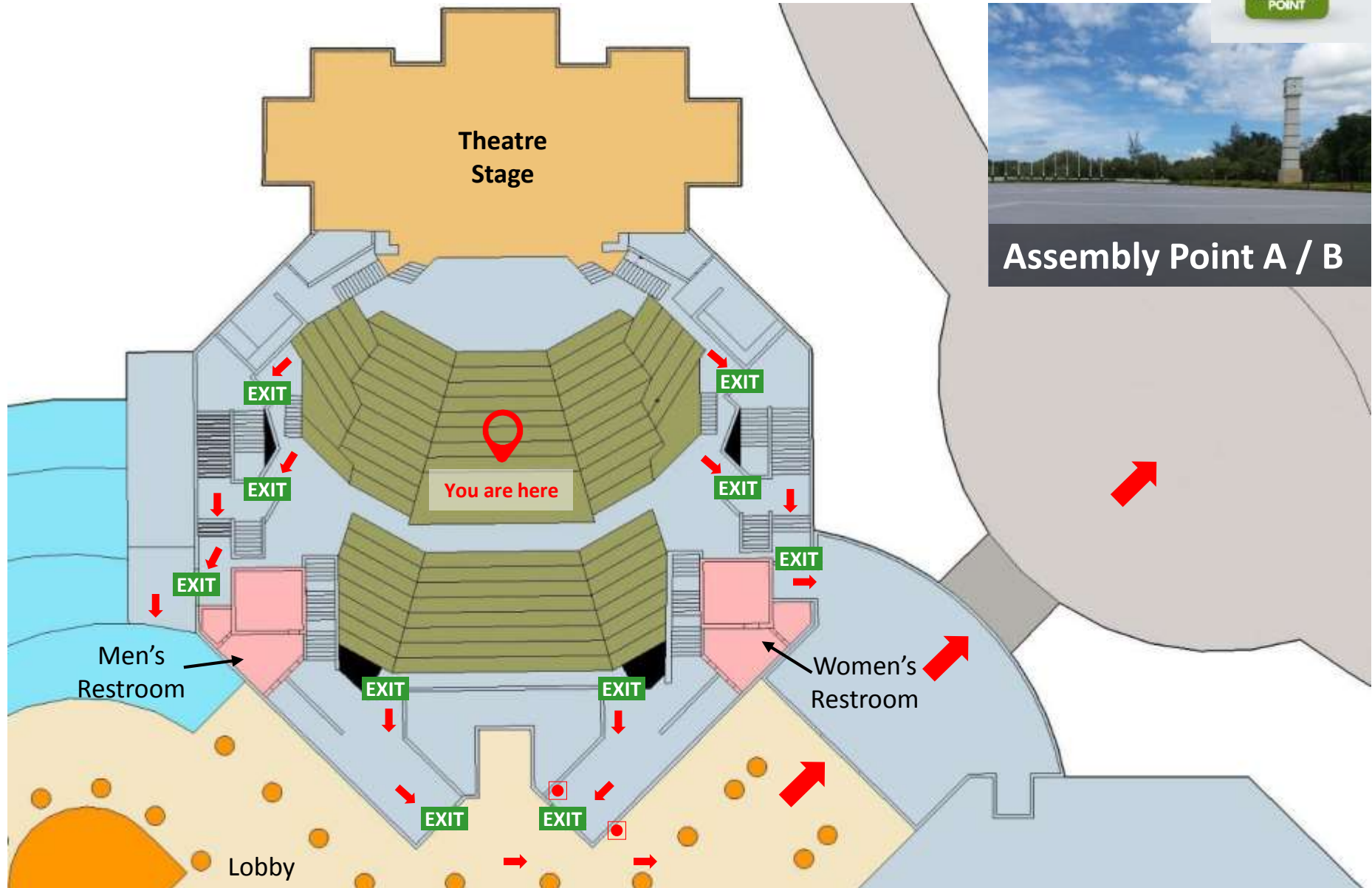


Continuous Bell Ringing Evacuate Building





Assembly Point A / B



● Fire Call Point

Proceed to **Assembly Point A / B**





SAFETY REMINDER

- Do not use the lift
- Always Hold on to the handrail
 - Do not re-enter the building
- Remain calm and do not panic

Thank You

For your attention

Your safety is of utmost importance



Please
Keep Your Mobile Phone on
Silent Mode



Al-Fatihah and Doa Selamat

Opening Remarks

By

Yang Mulia Tuan

Hj Azhar bin Hj Yahya

Permanent Secretary (Energy)

*Ministry of Energy, Manpower
and Industry (MEMI)*

as Authority for SHENA

AGENDA



اوتوریتی سکیوریتى كيمياء
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SHENA Background & Organisation

Presenter

Jaime Rebelo

Chief Inspector, SHENA



اوتوريټي ڪي بڻسائن ڪسلامتن
ڪصيحتن دان عالم سڪيتر
Safety, Health and Environment
National Authority



ABOUT SHENA

A statutory body set up under the Safety, Health and Environment National Authority Order, 2018 and enforced April 2017.

The Authority regulates and enforces all matters relating to workplace safety and health, environment and radiation within Brunei.

A Chief Executive Officer (CEO) heads the Authority and is ultimately accountable for the function and affairs undertaken by the Authority. He is responsible to the Authority and reports directly to the Minister in Charge (Minister of Energy, Manpower and Industry).

Appointed inspectors have specific legal powers to enforce and regulate workplace safety and health, environment and radiation laws on behalf of the SHENA.

Functions

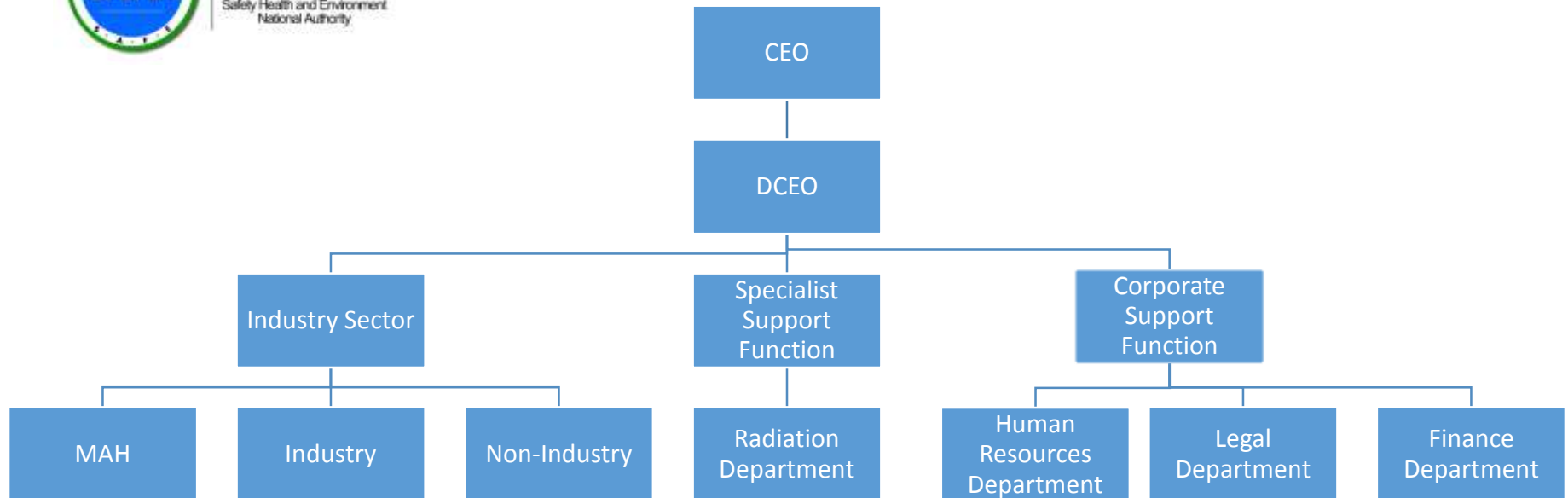
- **Inspection**
- **Investigation**
- **Examination of Notification**
- **Examination and certification of Safety Case**
- **Examination of Safety Management System**
- **Licensing**
- **Advise guidance and support to industry**



اتحادیه صحت و ایمنی
کمیسیون، دان عالم سکیر
Safety Health and Environment
National Authority

Functional Chart

Industry Sectors, Specialist and Corporate



Industry Sectors

1. Major Accident Hazard: Oil and Gas Petrochemicals, Hazardous substance
2. Industry: Rest of Industry
3. Non Industry: Hospitals, schools, offices



Specialist Support

1. Radiation Department
2. Technical Support Unit.



Corporate Function

1. Human Resources Department
2. Legal Department
3. Finance Department



اوتوريتي كسلامان كسلامتن
كصحيين، دان عالمو سكيتر
Safety Health and Environment
National Authority

Vision, Mission & Principles

Mission Statement

We will maintain a robust fit for purpose national safety, health and environmental regulatory framework and ensure that risks to people, assets and the environment are controlled in compliance with:

Laws and regulations
Set by the government
Implemented by those who create the risk
Underpinned by continuous improvement

In all our activities

We will ensure a transparent and open dialogue with all our stakeholders. Compatible with the aspirations of the nation. Our stakeholders include industry, government, and the general public and our key principles apply equally to all.

Vision Statement

We are committed to making a difference and ensuring Brunei is a safe place to work and live

Principles

Our operational philosophy is governed by four key principles.

Structured – a structured legal framework with a risk-based approach
Auditable – accountable for our actions as a regulator
Focused – across all our interactions with all our stakeholders
Engaged – open, transparent and respectful in all our discussions written or otherwise

**ENFORCEMENT OF THE
WORKPLACE SAFETY
AND HEALTH ORDER
(WSHO) 2009**

This order is goal setting and describes the general safety and health expectations on all workplaces. Duties are placed primarily on the Employer, with further duties on employer roles, such as contractor, sub-contractor, designer, manufacturer. There are also duties placed on individual employees.

**ENFORCEMENT OF THE
ENVIRONMENTAL
PROTECTION AND
MANAGEMENT ORDER
(EPMO) 2016**

This order is goal setting and describes the general environmental expectations on all industry sectors and persons.

**ENFORCEMENT OF
THE RADIATION
PROTECTION ORDER
2018**

This order is goal setting and describes the general expectations on all industry sectors covering radiation requirements of the International Atomic Energy Agency (IAEA).

The Orders ensure that those creating the risk reduce those risks to persons (employees and public), assets and the environment, to As Low As is Reasonably Practicable (ALARP).

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Legislation Update

Presenter

Alice Khan

Chief Legal Officer, SHENA

01

WSHO



*WORKPLACE SAFETY AND
HEALTH ORDER,
2009*

02

EPMO



*ENVIRONMENTAL
PROTECTION AND
MANAGEMENT ORDER,
2016*

03

RPO



*RADIATION PROTECTION
ORDER,
2018*



Minister responsible is
Minister of Energy, Manpower and Industry (MEMI)

In the Pipeline

Drafting

WSHO

Pipeline Safety Regulations

WSH (Incident Reporting) Regulations

WSHO

WSH (Work at Heights) Regulations

WSH (Workplace Safety Officers)
(Amendment) Regulations

WSH (Workplace Safety
Coordinators) Regulations

RPO

Radiation Protection (Safety)
Regulations

Radiation Protection (Transport)
Regulations

Radiation Protection (Waste
Management)

Radiation Protection (Exemption)
Regulations

EPMO

Environmental Impact Assessment
(EIA) Regulations

Air Pollution Control Regulations

Open burning Order

RPO

Radiation Licensing Regulations

TIMELINE

- ✓ Depends on confirmation of policy by all stakeholders
- ✓ Signed by Minister
- ✓ Gazette publication in AGC website

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SHENA Current Status and Way Forward

Presenter

Hj Jasrin Hj Serudin

Senior Inspector, SHENA

CATALYST FOR CHANGE



Board of inquiry (BOI) into the structural collapse incident at Maktab Sains, Kuala Belait on the night of 22nd October 2014



One of the key recommendations was –
To create a single national Competent HSE Authority

**“Safety, Health and Environment
National Authority”**



اوتوريتي سكه سائن كسلامتن
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* Data recorded since 2013



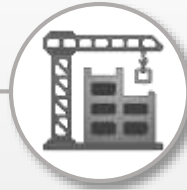
Changing Landscape



Diversification
(non-O&G)



Increased
SME
development



Major
Technical
Projects
& FDI



Compliance
to Law,
best industry
practices &
standards



Industry
Safety
Performance,
fatalities in
industry



Environmental
concerns

WAWASAN 2035



- The accomplishments of its well-educated and highly skilled people
- To achieve **quality of life** that is among the top 10 countries in the world.
- To build a dynamic and sustainable economy with an income per capita among the world's top 10.



ACHIEVEMENTS

- Establishment of SHENA
- Transfer of WSHO to SHENA
- Enforcement of COMAH Fees
- Enforcement across industries: MAH Facilities, Power Stations, Construction, Radiation premises
- Registration of WSH Officer
- IMIST for Frontline Supervisors (for COMAH sites)



PLAN AHEAD

- Continue recruiting competent personnel (SHENA Inspectors)
- Registration of:
 - Factory, Company, Crane, Crane Operator, WSH Officer, WSH Auditor, Authorised Examiners, Training Providers.
- Guidelines “Safe Use of Scaffolding”
- Four (4) Themes:
 - (1) Work at Height, (2) Crane Management, (3) Asset Integrity, (4) School, Commercial and Government Buildings
- Government Information Group (GIG)
- Brunei Industry Group Council
- Brunei Industry Accreditation Body
- SHENA Roadshow and Awareness Programme

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2019-24 Themes

Presenter

Hj Ya'akub bin Hj Yusof

Senior Inspector, SHENA

Legal Disclaimer

This presentation is for educational purpose only

National HSE Themes

51 WORK RELATED FATALITIES IN THE LAST 5 YEARS

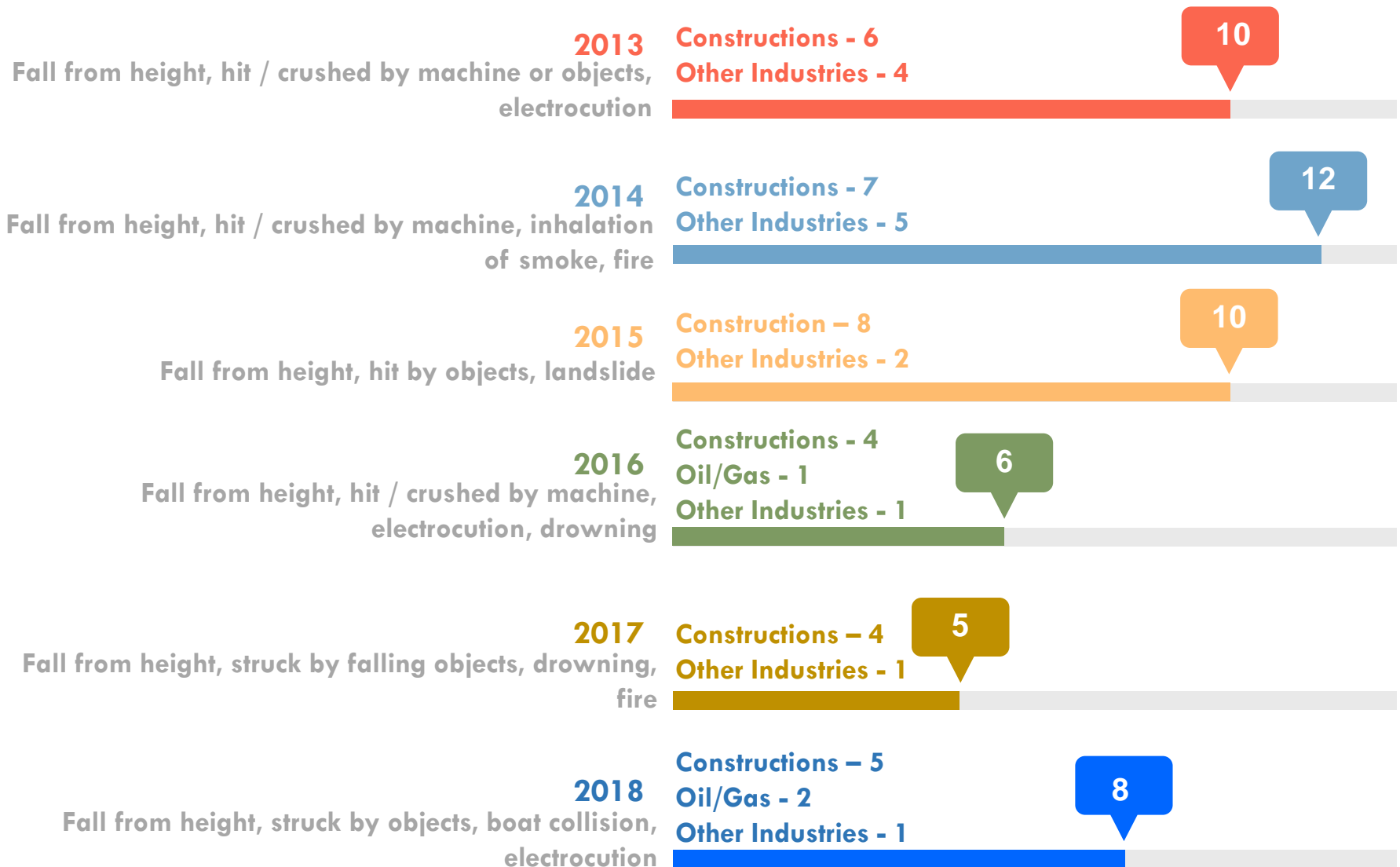
Work related Fatality Rate in Brunei is 10 times that of Europe & 5 times that of Singapore

Focus areas where Everyone can Make a Difference
To make Brunei A Safe Place to Work and Live

Four National HSE themes have been set for Brunei industry, developed from a risk based review of performance over the last three years.

Work Related Fatalities

Work Related Fatality is a death that occurs while a person is at work or performing work related tasks



2019 YTD: 0 work related fatalities

Source: Ministry of Health

Theme 1: Working at Height

Working from a place where a person could be injured by falling from it

A review of work related fatality statistics has shown that fall from height is the major cause of fatalities on construction sites.

Key Findings:

Poor management of working at height activities:

- Risk assessment
- Use of fall protection device
- Supervision and Implementation at site
- Rescue at height



Theme 2: Crane management

In 2017, 5 Crane significant incidents reported including 1 death.



Key Findings:

1. Inappropriate use of equipment
2. Lack of certification- Crane & Operators not verified
3. Poor or no maintenance of crane
4. Inadequate & lack of compliance to procedures (Lifting Plan)
5. Lack of Supervision, Site Compliance and Enforcement

Theme 3 : Asset Integrity



Since 2013, 4 major accidents in Brunei, including fire at hazardous waste treatment plant , hydrogen leak, loss of well control, tank over flow with huge financial and reputation impact to the Country.

Key Findings:

**Ageing equipment, Maintenance, Management of Structural Integrity,
Poor integrity leadership & competence**

Theme 4: Schools, Commercial and Government Buildings

In 2017, Inspections of 60 schools were conducted by the Fire and Rescue Department (FRD).

Key Findings:

1. Inadequate provision of fire detection and control.
2. Outdated and obsolete equipment
3. Lack of training and awareness on fire drills
4. Maintenance management



We seek support from Government and Industry Stakeholders to review their systems and procedures and identify areas of concerns.

**Together we can make Brunei a
safe place to work and live**

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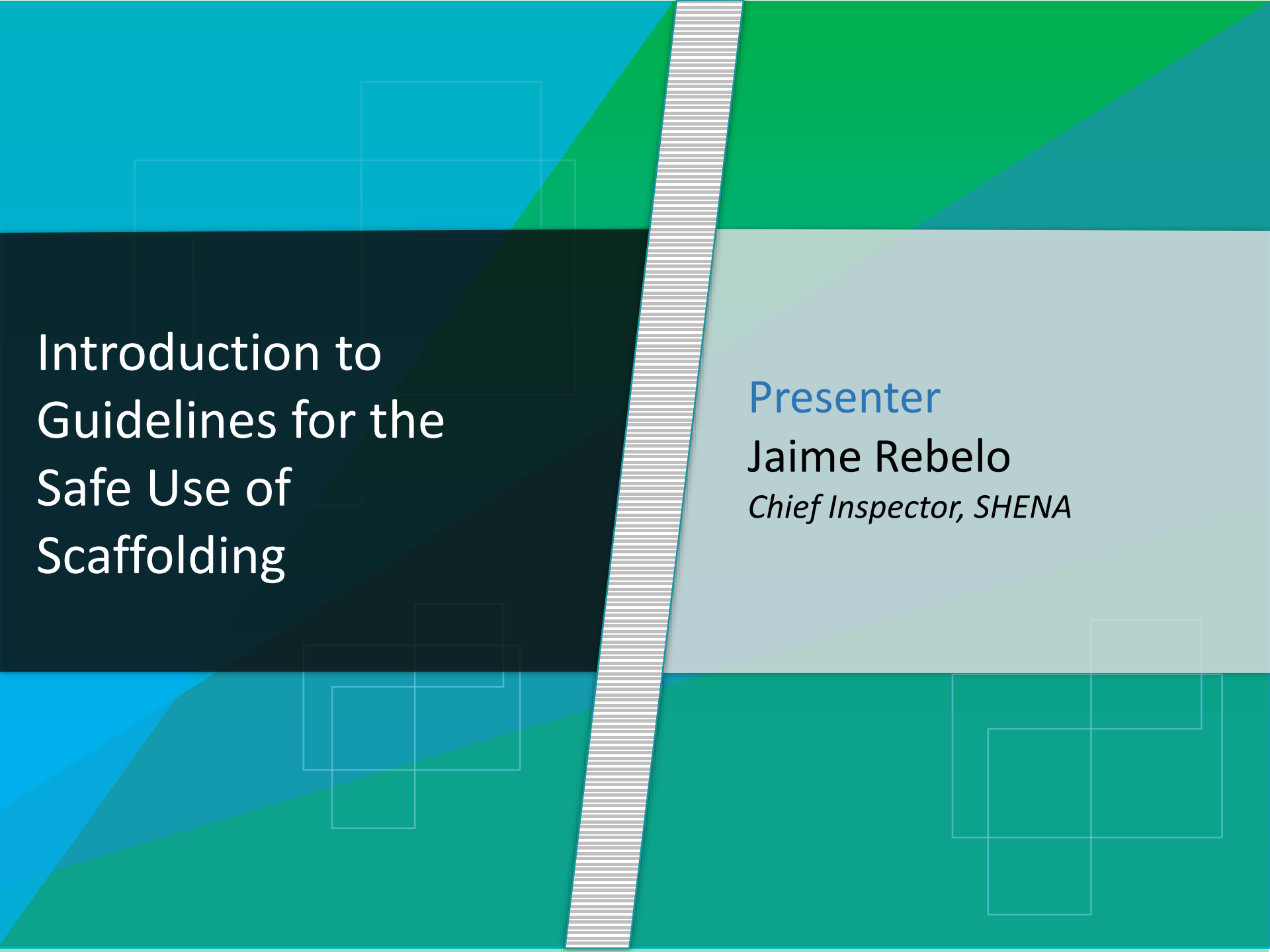
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Introduction to Guidelines for the Safe Use of Scaffolding

Presenter

Jaime Rebelo

Chief Inspector, SHENA



Guidelines for the Safe Use of Scaffolding

BACKGROUND

- Practical guidance to all persons involved
- Expectations are placed on designers, constructors, inspectors and users
- Addresses various recognized positions within the industry, not limited to Principal Contractor, Client, Professional Engineer, Occupier, Contractor, Scaffolding Contractor and Workers



LEGISLATION

- Workplace Safety and Health Order 2009
- Workplace Safety and Health (Construction) Regulations 2014
- Workplace Safety and Health (Risk Management) Regulations 2014
- Workplace Safety and Health (Incident Reporting) Regulations 2014



Guidelines for the Safe Use of Scaffolding

REASONS FOR COMPLIANCE

- Large number of accidents are attributed to fall from height, dropped objects and work at height related concerns
- Duty placed on the employer, activity owner and the principal
- Duty placed on the worker to ensure they abide by the procedures
- Workplace safety will contribute to a safe place to work and live



SHENA's VISION

*We are committed
to making a
difference and
ensuring Brunei is a
safe place to work
and live*

Types of Scaffolds Seen In Brunei



Mobile Scaffold using Tubes and Clamps



Independent Scaffold using Tubes and Clamps for Piping and Structure Construction



Sheathed Scaffold



Independent Scaffold using Tubes and Clamps for Tank



Key Points

Guidelines for the Safe Use of Scaffolding

- ✓ Any activity required to design, construct, alter, operate, inspect, and dismantle a scaffold: and is intended to cover the life cycle of a scaffold;
- ✓ Duty placed on the employer, activity owner and the principal;
- ✓ Duty placed on the worker to ensure they abide by the procedures;
- ✓ SHENA does not recommend the use of FRAME SCAFFOLD as an access scaffold for use above a single frame height without additional precautions;
- ✓ Workplace safety will contribute to a safe place to work and live.



GUIDELINES FOR THE SAFE USE OF SCAFFOLDING

SHENA Website
www.shena.gov.bn
Enquires:
info@shena.gov.bn

This guidance document is the first in a series of publications that will be issued by SHENA

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Crane Operations

Presenter

ELSayed Salah Hamouda

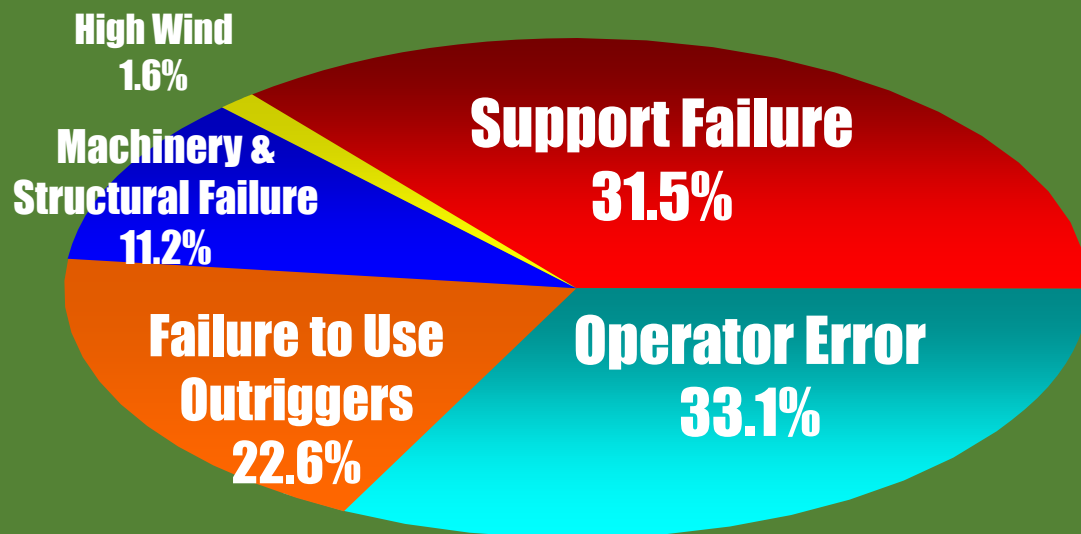
Senior Inspector, SHENA

Background

- Lifting and hoisting operations are one of the major causes of fatalities and serious incidents within industry. Every type of lift has a set of risks that need to be managed if the lift is to be undertaken in a safe and efficient manner.
- Globally 20% of fatal accidents have occurred within industry (construction and Oil & Gas) and are crane related as per OSHA



MAIN CAUSES OF CRANE ACCIDENT'S STATISTICS



- ❖ In BRUNEI, previous incidents within construction industry have resulted in some fatalities**
This has been attributed to crane activities

THIS IS A TIME FOR CHANGE

NEWS NATIONAL

Accident claims lives of 3 workers at Temburong Bridge project

Gov't says cause of incident still under investigation

The Scoop
© AUGUST 28, 2018



This Bechman shows twin ISO sensitive piglets being used for the lambing process. Photo: Courtesy of Common Farm Technology



BANDAR SERI BEGAWAN – Three foreign workers have died following an accident on the construction site of the Temburong Bridge project, the Ministry of Development (MinDev) announced on Monday.

The accident occurred on Sunday at one of the bridge towers. The nature of the accident was not disclosed.

In a statement, the development ministry said all construction work at the tower site has been halted pending an investigation into the incident:

⁶⁶ The cause of the accident is still under investigation. Officers from the Labour Department, Ministry of Home Affairs and the Ministry of Energy, Manpower and Industry, together with the project team comprising the Ministry of Development, consultants and contractors are jointly carrying out investigations at the site.

The safety of the site workers and supervisory personnel is of paramount importance to the government of His Majesty the Sultan and Yang Di-Pertuan of Brunei Darussalam. The project team will continuously review the risk assessment and ensure that contractors comply with all the safety requirements as specified in the contract.

Spanning 30 kilometres, the \$1.6 billion bridge – which once completed in 2019 will be the longest in Southeast Asia – will connect the Brunei mainland with the Temburong district.

According to the construction industry average, Brunel recorded **2.0 work-related fatalities per 100,000 workers** in 2016, down from 4.5 per 100,000 in 2015.

In the United Kingdom, the rate stood at 0.48 per 100,000 workers.

According to the Ministry of Development, the two most common types of accidents recorded in Brunei are "falls from height" and being "struck by falling object".

National

Crane collapses near cemetery; no injuries

November 14, 2018

| Azlan Othman & Rokiah Mahimud |

A CRANE used to cut trees which can be dangerous to the public and vehicles, collapsed at the Muslim cemetery in Kampong Kiarong near Jame' Asr Hassanil Bolkiah on Sunday around 7pm.

No injuries were reported while no vehicles were also damaged following the incident.

The Ministry of Religious Affairs (MoRA) stated in a release yesterday, "The crane belongs to a company appointed by the Muslim Cemeteries Unit of the Building and Maintenance Division, MoRA to clear trees which pose a danger to members of the public and nearby vehicles."

"Preliminary investigations by the appointed contractor found that the crane was experiencing technical difficulties during the clearing work. Alhamdulillah, no injuries were reported, but the MoRA through the Muslim Cemeteries Unit will take measures to address the incident."

Those wishing to lodge a report on the extent of the damage at the cemetery can do so at the Muslim Cemetery Hut in Kampong Kiarong, during office hours. Those seeking information or references on local Muslim cemeteries, contact the Muslim Cemeteries Unit, Building and Maintenance Division at Jalan Residency in the capital. They can also reach Haji Md Rozaiman bin Haji Abdul Rahman at 8893838, Sahlrin bin Mohd Noor at 8763776 or Razaiman bin Haji Salleh at 8669282.



Damage caused by the collapsed crane. - BOWMAN 04-00152





INDUSTRY GUIDANCE NOTE

TOPIC: Lifting Operation			Reference Number: IGN 01/2019
Approved by: Chief Inspector	Issue date: 13th June 2019	Expiry date: None	Revision No: 1

LIFTING OPERATIONS

Note to Employers, Owners, Users and Inspectors of Cranes and Lifting Equipment and Principals.

1. SUMMARY

This Industry Guidance Note (hereinafter referred to as IGN), which is issued by the Safety, Health and Environment National Authority (SHENA), acts as a guidance to all employers and users of cranes and lifting equipment to comply with the laws relating to workplace safety.

The Workplace Safety and Health Order, 2009, and the Workplace Safety and Health (Construction) Regulations, 2014 and the Workplace Safety and Health (General Provisions) Regulations, 2014 place duties on persons and employers who own, operate or have control over any lifting equipment. This includes all organisations whose employees are involved in the use of a lifting equipment, whether owned by them or not. All lifting operations involving lifting equipment must be properly planned by a competent person, appropriately supervised and carried out in a safe manner.

The legislation also require that all equipment used for lifting is fit for purpose, appropriate for the task, suitably marked and subject to certification and statutory periodic thorough examination and inspection by an authorised examiner. Records must be kept of all thorough examinations and inspections and any defect or failure found by the authorised examiner on the lifting equipment (accessories) must be reported to the person responsible for the equipment; and any defect or failure found by any person including the authorised examiner or the competent person as the case may be, on lifting machines such as cranes including any crane accident must be reported immediately to both the person responsible for the lifting machine and SHENA.

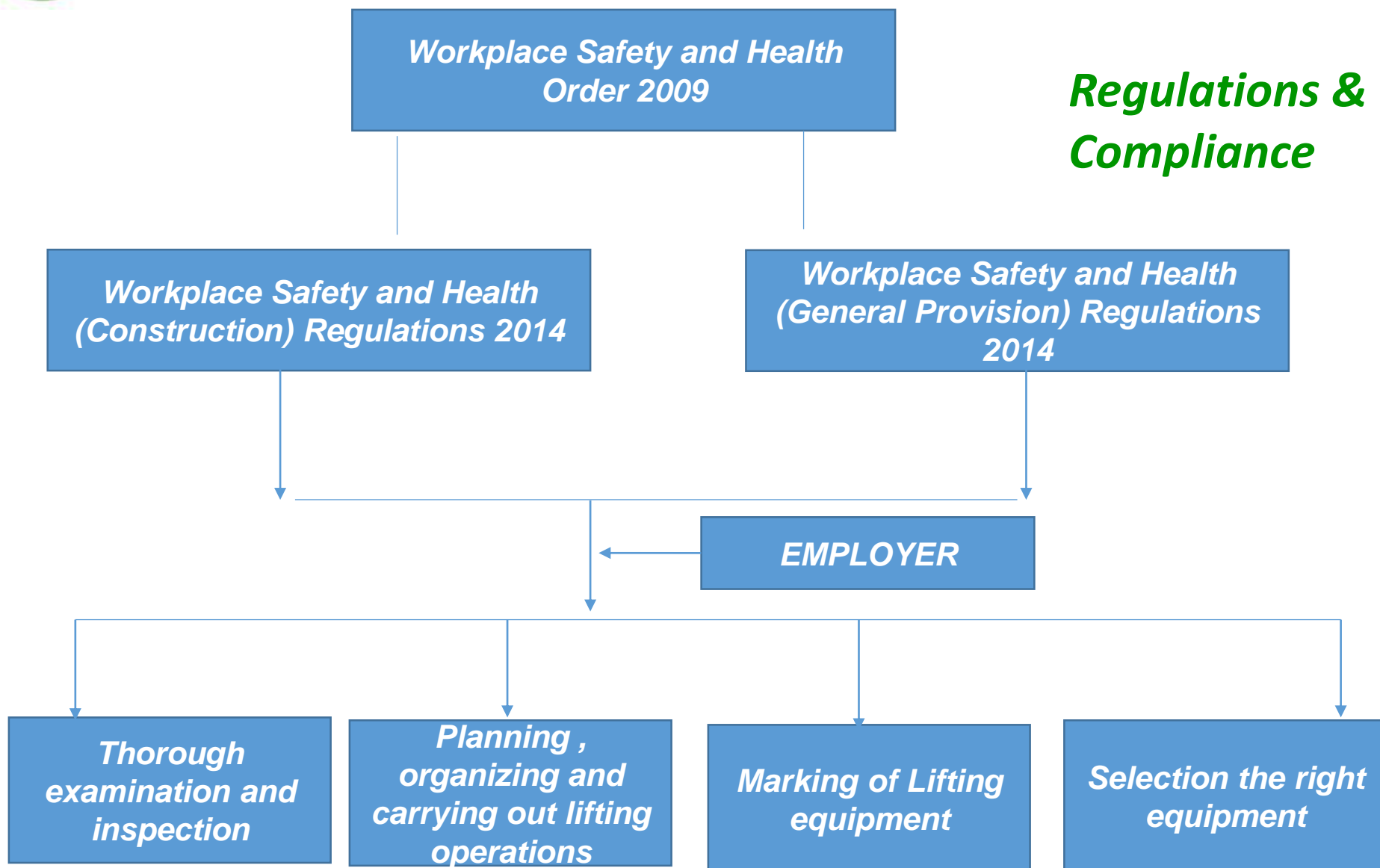
IGN: Lifting Operations

- **Guidance to all employers, users of cranes & lifting equipment to comply with the laws relating to workplace safety.**

KEY POINTS:-

- ✓ **Registration with SHENA**
- ✓ **Strength and Stability**
- ✓ **Suitability of Lifting Equipment for Man Riding**
- ✓ **Positioning and Installation of Equipment**
- ✓ **Marking of Lifting Equipment**
- ✓ **Organisation for Lifting Operations**
- ✓ **Thorough Examination**
- ✓ **Reports and Defects**
- ✓ **Records**

Regulations & Compliance



12th. JUNE, 2014

No. S 35

**WORKPLACE SAFETY AND HEALTH ORDER, 2009
(S 44/2009)**

WORKPLACE SAFETY AND HEALTH (CONSTRUCTION) REGULATIONS, 2014

ARRANGEMENT OF REGULATIONS

Regulation

PART XV

CRANES, EMPLOYEE'S LIFTS AND MATERIAL HANDLING MACHINERY

- 134. Strength and stability.
- 135. Capacity chart.
- 136. Thorough examination and inspection.
- 137. Handling of suspended loads.
- 138. Prohibition on riding on loads.
- 139. Cranes or machinery at rest.
- 140. Operators of employee's lift.

PART XVI

GENERAL

- 141. Offence.



BRUNEI DARUSSALAM GOVERNMENT GAZETTE

No. S 34

WORKPLACE SAFETY AND HEALTH ORDER, 2009
(S 44/2009)

WORKPLACE SAFETY AND HEALTH (GENERAL PROVISIONS) REGULATIONS, 2014

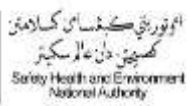
ARRANGEMENT OF REGULATIONS

Regulation

PART III

GENERAL PROVISIONS RELATING TO SAFETY

19. Hoists and lifts.
20. Lifting gears.
21. Lifting appliances and lifting machines.
22. Register of lifting gears etc.

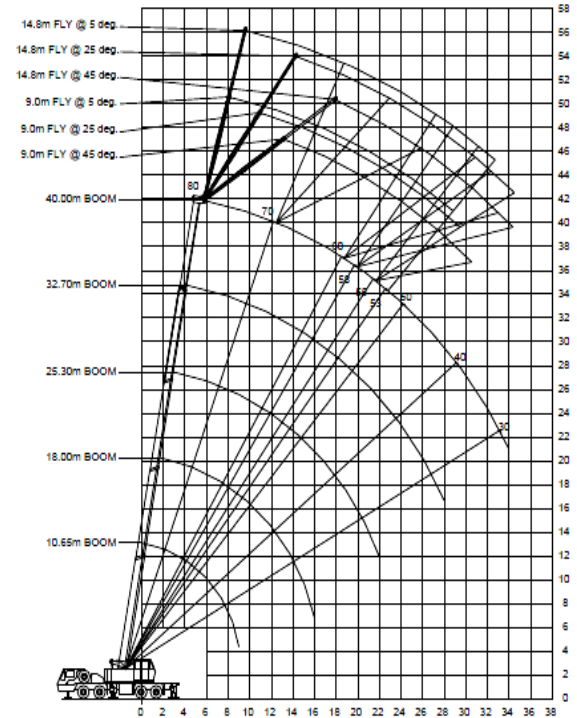


Duty No 1:- Select the right equipment:-

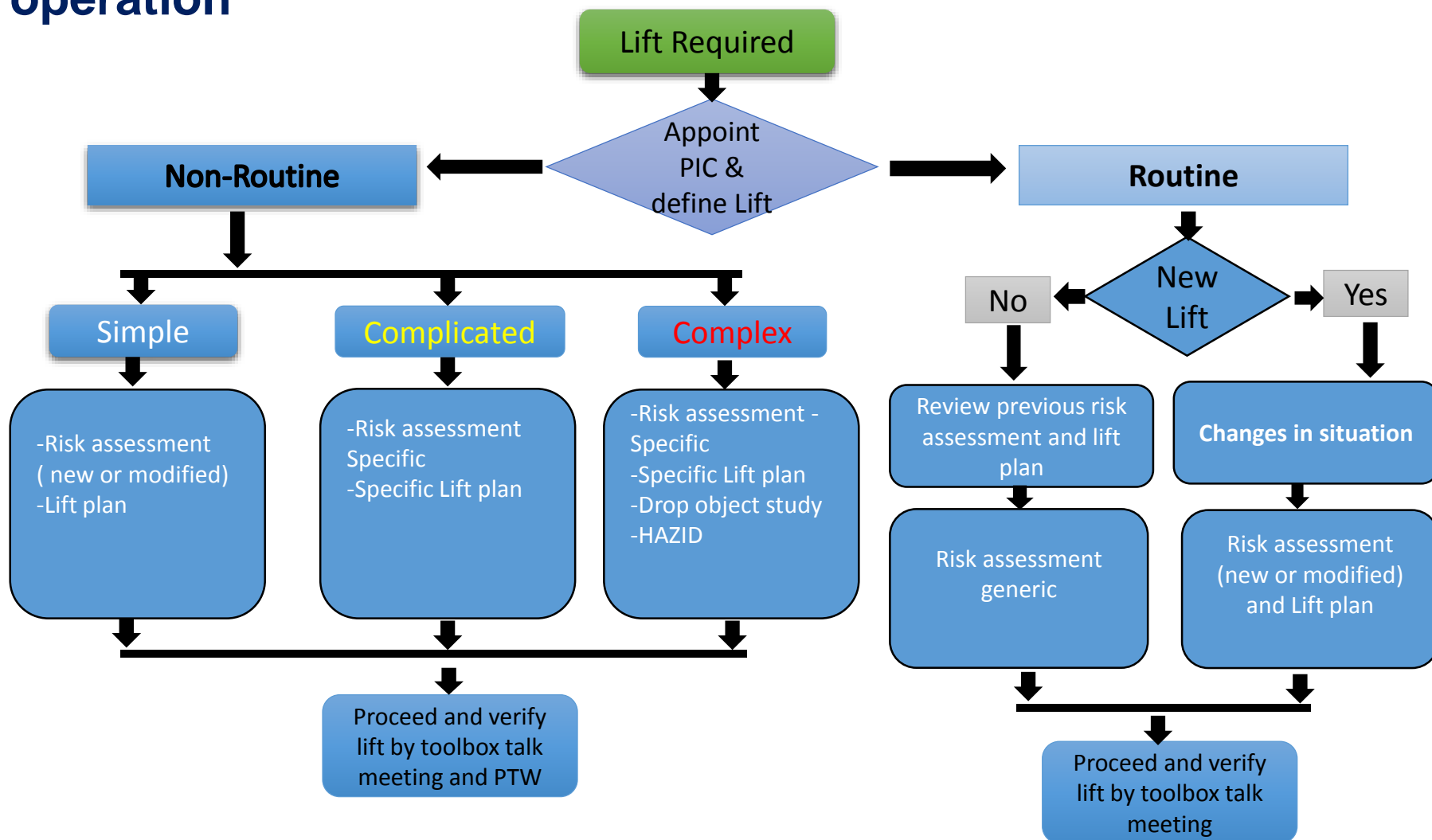
- **The strength and stability** of the lifting equipment and the load itself must be adequate for the task.
- Where the **risk of overload** exists, rated capacity indicators must be fitted. (This is the new term for safe load indicator!)
- Lifting equipment should be **suitably positioned** or installed in such a way as to reduce the risk, as low as reasonably practicable (ALARP), of the equipment or load striking a person, or of the load drifting, falling freely or being unintentionally released.
- Where people are being lifted, **fit for purpose equipment** is to be used e.g. man riding appliances shall be fitted with dual brake and emergency lowering system ,...etc.

Duty No 2:- Marking

- All lifting equipment must be marked with **Safe Working Load (SWL)**
- If SWL can vary with configuration, this **information must be displayed**.
- Equipment for lifting people must be marked with SWL and **max number** of people allowed



Duty No 3:- Planning , organizing and carrying out lifting operation



Certifications

Duty No 4 :- Thorough examination by third party



Third Party Inspections (TPI)

SENARAI NAMA-NAMA SIJIL PENGIKTIRAFAN SYARIKAT/FIRMA UNTUK UJIAN JENTERA PENGANGKAT SELAMAT DIGUNAKAN			
No.	NAMA SYARIKAT/FIRMA	TEL/EMAIL	TARIKH MANSUH
1.	Seri Damai Services Sdn Bhd	Off: 673 3347698 HP: 673 8726255 Email: roslan@seridamai.com	14/01/2019
2.	Classic Reliance Bureau Services	HP: 673 87177401	17/01/2019
3.	Velosi (B) Sdn Bhd	Off: 673 3332971/75 HP: 673 8713522 Email: velosib2@brunet.bn rosli@velosibrunei.com	06/02/2019
4.	Bureau Veritas	Off: 673 2771499/2233615 HP: 673 8897027 Email: kdt@brunet.bn	15/03/2019
5.	Rina Energy (B) Sdn Bhd	HP: 673 8778028 Email: brunei.office@rina.org	04/03/2019
6.	Germanisher Lloyd Offshore & Industrial Services (B) Sdn Bhd	Off: 673 3340845/43/46/47 Email: terence.sung@dnvgl.com gl.kuala.belait@dnvgl.com	15/03/2019

AGENDA



الهيئة الوطنية
للسلامة والصحة
والبيئة
Safety, Health and Environment
National Authority

OPENING

0800 – 0845
Registration

0800 – 0845
Refreshment

0850
Safety Briefing

0855
Al-Fatihah and Doa
Selamat

0900 - 0910
Opening Remarks

SESSION

1

0910 – 0920
SHENA Background
& Organisation

0920 – 0930
Legislation/ Law
update/ position

0930 - 0950
SHENA Current
Status and Way
Forward

0950 - 1000
Q&A



SESSION

2

1000 – 1010
2019-21 Themes

1010 – 1020
Introduction to
'Guidelines for the
Safe Use of
Scaffolding'

1020 - 1030
Crane Operations

1030 - 1040
Q&A



SESSION

3

1040 – 1100
**WSH Legal
Positions and
Training**

1100 – 1115
Radiation
Licensing Activities

1115- 1145
Q&A



Workplace Safety and Health (WSH) Legal Positions and Training

Presenter

Siti Nur Aisyah binti
Hamdan

Junior Inspector, SHENA

Siti Liyana Binti Abdul
Rahim

Junior Inspector, SHENA

BRUNEI CONSTRUCTION SAFETY PASS

To train and verify that construction workers meet the minimum expected OSH standards before working in Brunei Darussalam

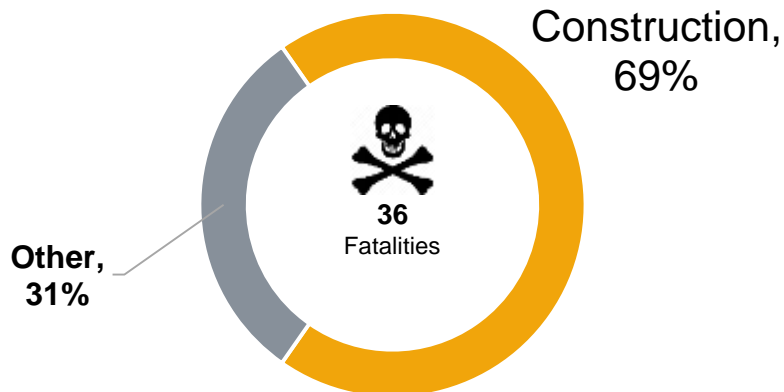


Brunei Construction Safety Target

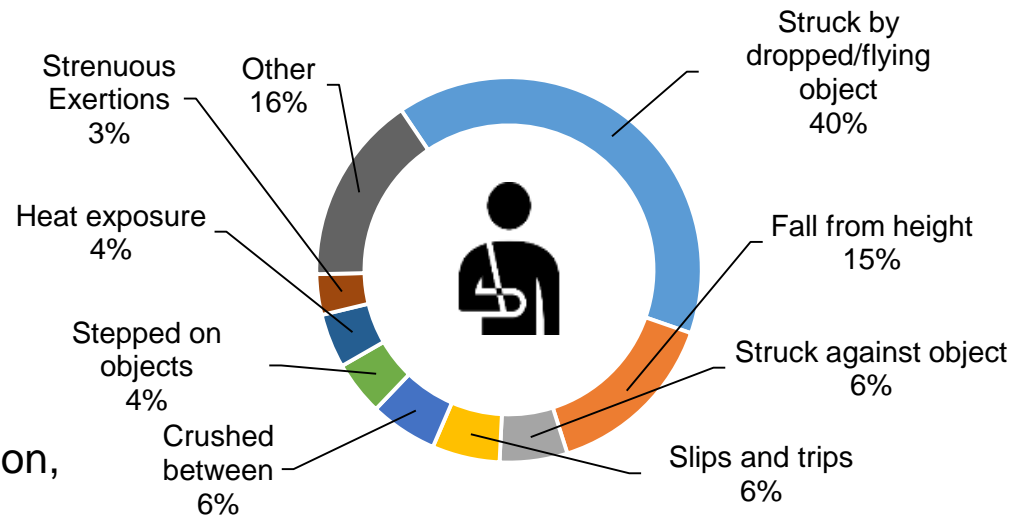
National Target to reduce fatality rate by 50% by 2025.
(5 per 100k workers in 2015)



Brunei Workplace Fatalities (2013-16)



Brunei Construction Injuries

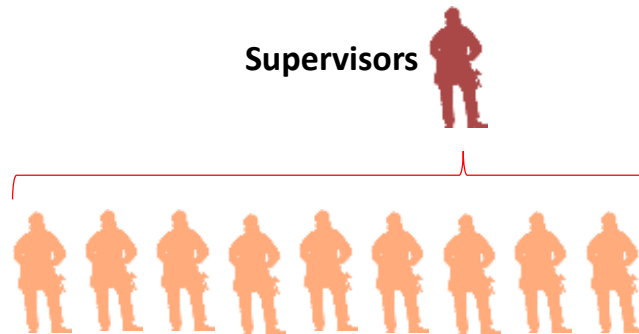


Targeting Frontline Supervisors

WORKPLACE SAFETY & HEALTH (CONSTRUCTION) REGULATIONS, 2014

It shall be the duty of the employer and/or principal of any person who carries out oversight or supervisory work to provide:

‘...adequate safety and health training to ensure that the work which the person **oversees or supervises** can be carried out safely.’



c.30,000 Migrant Construction Workers
Skilled and unskilled labourers and **c.3,000 Supervisors**




















From neighbouring countries:

Malaysia / Thailand / Philippines / Bangladesh

Home / Supervisor

Report Card

Return To Home

Instruction Video	Work Supervision	Practice Assessment	Final Assessment	Certificate
				
 Play 	  	  	 Completed  	 View Certificate

Guide Video (5 mins)

eLearning Course
(70 mins)

51 Learning
Objectives across
82 screens

Practice Assessment
(6 mins) 6 mock
questions

Final Assessment
(50 mins)
Minimum of 51 questions

Receive Certificate

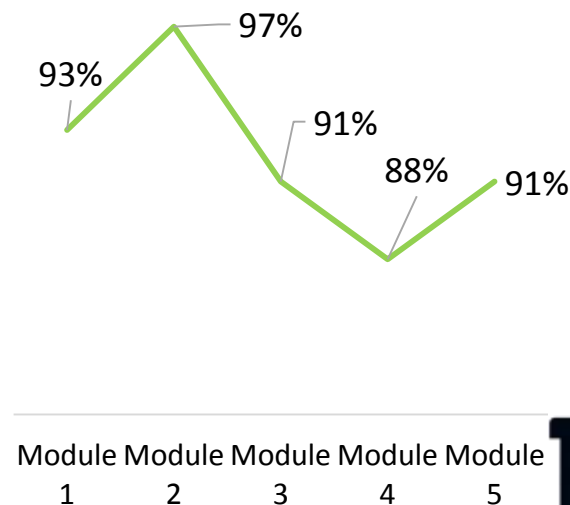
Complete **Online**

Complete **in Training Centre**

Pilot Final Assessment Results


92% Average assessment pass mark


(16 assessment completions from Pilot training companies)





Learning objectives - *knowledge gaps*


Average for each learning objective

 **37%** could not identify the methods of communicating and agreeing work to be carried out

 **37%** did not know the checks required to ensure progress and the quality of work being undertaken

 **25%** could not define the systems in place to identify hazards and reduce risk

 **25%** could not identify the requirements for the use of warning signs and notices

 **25%** could not identify and recommend opportunities for improving health, safety and welfare

IMIST Report Brunei Pilot

Sept 2016 – Dec 2018

IMIST
(International Minimum
Industry Safety Training)
is an OPITO standard
which supports the
global Oil and Gas
Industry to meet safety
initiative targets.

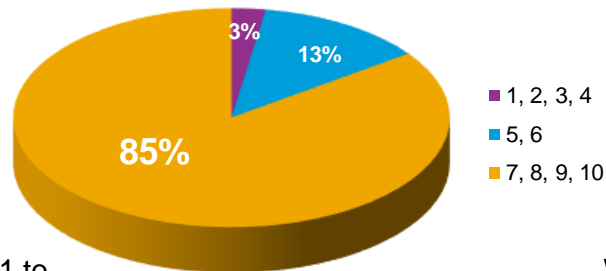


IMIST

Note to Industry : **2016/NTI/4**
Issued : 10th June 2016

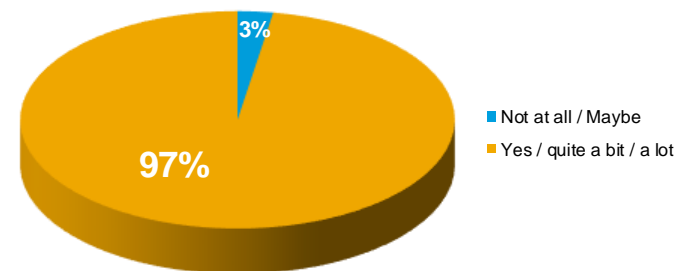
- ✓ Minimum HSE training
- ✓ Frontline Supervisors
- ✓ Major Hazards sector of industry

BRUNEI IMIST TRAINING **(SEPT 2016 – DEC 2018)**



On a scale of 1 to 10, How likely are you to recommend IMIST

Will the IMIST course help you in your job?



PRE-ASSESSMENT STATISTICAL INFORMATIONS :

- ❑ Learning objectives most frequently failed in the pre-assessment :
 - Describe how to use a **Permit to Work System** and how to reinstate permits (86% failure rate)
 - How to minimize **Working at Height** Risks(74% failure rate)
 - Recall the sources of Oil and Gas industry **chemical hazards**(65% failure rate)
- ❑ **99%** of candidates completed IMIST within 8 hours and 81% completed within 4 hours
- ❑ 2277 (as of January 2019) license issued

**SHENA continues to work with industry to ensure
all Frontline Supervisors are trained**

WSH Officers & Co-ordinators

28. (1)

Every workplace within the prescribed class or description of workplaces shall have a Workplace Safety and Health Officer or a Workplace Safety and Health Co-ordinator appointed in respect thereof.



Safety and Health Management Arrangements

Factories in which building operations or works of engineering construction of a contract at the sum of:	Workplace Safety and Health Auditors	Workplace Safety and Health Officers	Workplace Safety and Health Coordinators	Workplace Safety and Health Committees
\$30 million or more	✓	✓	✓	✓
\$10 million or more		✓	✓	✓
Less than \$10 million			✓	✓
50 or more persons are ordinarily at work				✓

References:

Workplace Safety and Health Order, 2009, Section 28

Workplace Safety and Health (Workplace Safety and Health Officers) Regulations 2014

Workplace Safety and Health (Workplace Safety and Health Committees) Regulations, 2014

Workplace Safety and Health (Construction) Regulations, 2014

WORKPLACE SAFETY AND HEALTH OFFICER



Workplaces requiring WSH Officers

- ☐ (1) **Shipyards,**
- ☐ (2) **Factories: process petroleum / petroleum products**
- ☐ (3) Factories: contract **value of \$10 million or more,**
- ☐ (4) Factories: **employed more than 100 persons**



Minimum requirements

- ☐ **NEBOSH IGC Cert or equivalent**
- ☐ **2 years relevant experience**



Duties of WSH Officer

- ☐ Identify the risk
- ☐ Recommend measures
- ☐ Control and risk elimination
- ☐ Recommend/assist to implement safe work procedure



Power of WSH Officer

- ☐ Enter, inspect and examine the workplace
- ☐ Inspect and examine documents, records, certificate, notice of workplace
- ☐ Investigate accident, dangerous occurrence, occupational disease



Register with
SHENA

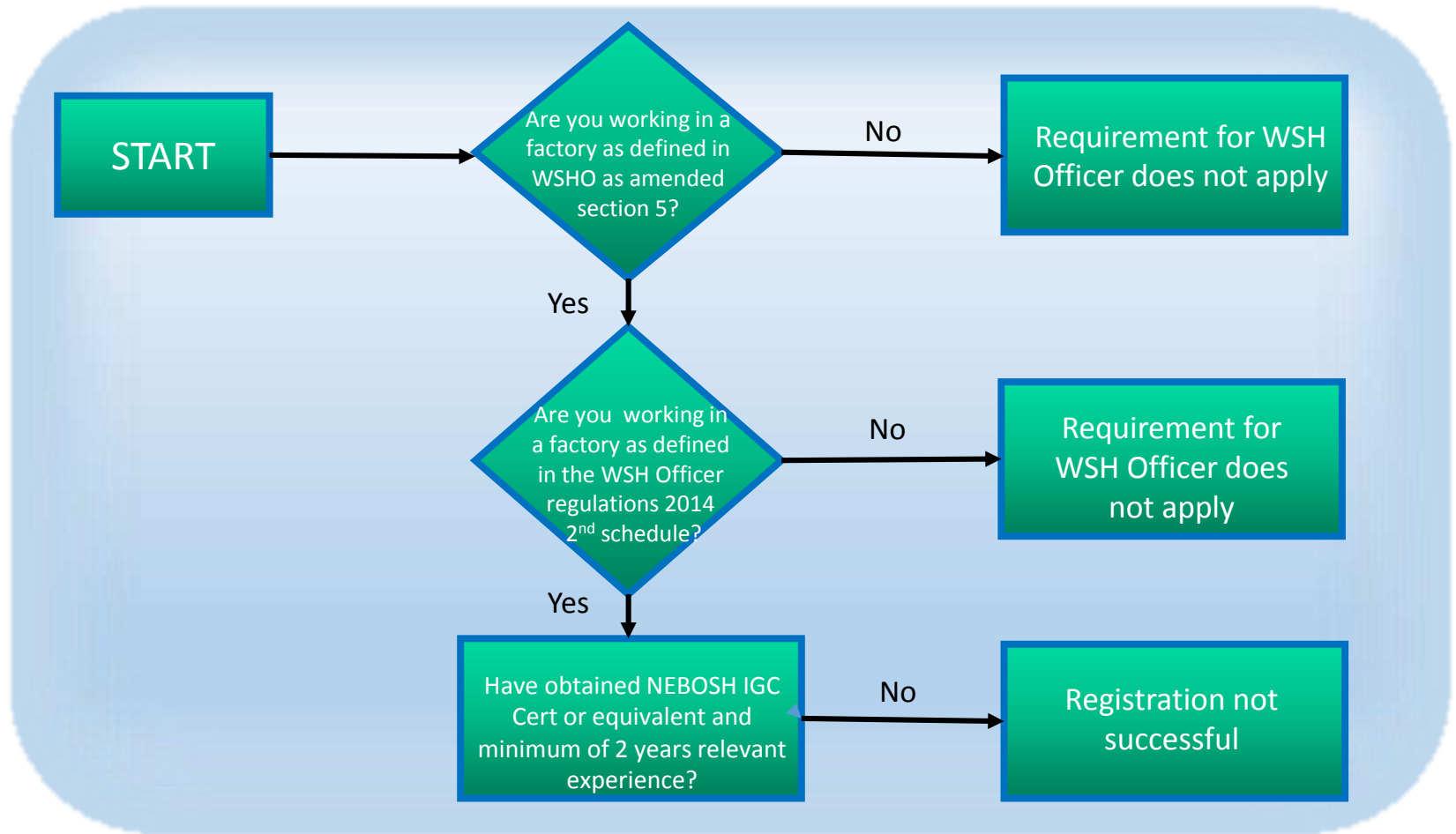


Certificate of approval

- ☐ **Valid for 2 years**
- ☐ Certificate shall not be transferable
- ☐ If lost, destroyed or defaced – apply for replacement

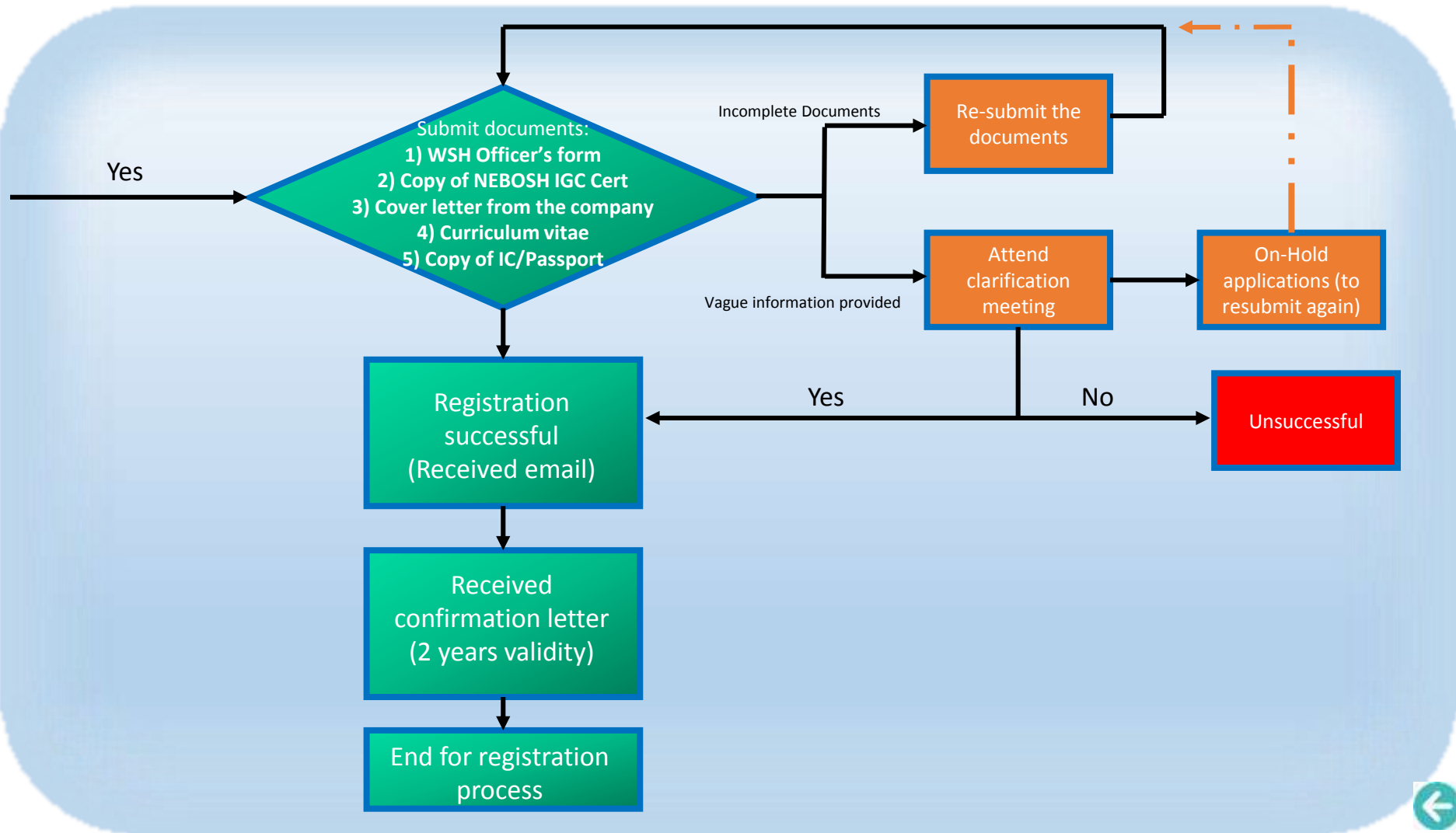


Process Flowchart – Registration of WSH Officer



Continue to next slide...

For more information please contact us at info@shena.gov.bn



... from previous slides

Legal Roles

WSH Coordinators

Requirement:

1. Successfully completed relevant training course
2. Minimum of 2 years relevant experience

Duties:

1. Assist identifying unsafe condition/work practice
2. Recommend and implement measures for unsafe condition/work practice

Powers:

1. Enter, inspect and examine the workplace
2. Inspect and examine documents, records, certificate, notice of workplace
3. Investigate accident, dangerous occurrence, occupational disease

WSH Committees

Duties:

1. Inspect the workplace at least once a month – records in report
2. Promote safe conduct of work in the workplace
3. Inspection of any accident or dangerous occurrences
4. Review safety or health in the workplace

Powers:

1. Enter, inspect and examine the workplace
2. Inspect and examine documents, records, certificate, notice of workplace
3. Investigate accident, dangerous occurrence, occupational disease

WSH Auditors

Duties to audit:

1. Safety & health management system
2. Risk assessment
3. Work process
4. The workplace

The auditor must not be a partner, an officer, an employee or an associate of the occupier of the worksite



SAFETY, HEALTH AND ENVIRONMENT NATIONAL AUTHORITY			
WORKPLACE SAFETY & HEALTH OFFICER		Date	Rev.
		12 th December 2018	5

Note: This form is to be used as a verification of workplace safety & health officer to the Safety, Health and Environment National Authority

Part 1: PERSONAL DETAILS

First name			Passport size photo
Last name			
IC no.	Colour		
Passport no.	Date of birth		
Nationality	Gender		
Home Tel.		Work Tel.	
Email		Mobile No.	
Home address			

Part 2: WORKPLACE DETAILS

Current title / position	No. of years in current position	
Task and responsibilities		
Name of company	Work activity	
Company's address		
	WSH Qualifications	Issue Date
List of WSH qualifications acquired		
	Title / Position/Company	Duration (from – until)
List of Previous title / position		

Workplace Safety and Health Officer's Forms



NEBOSH International General Certificate in Occupational Health and Safety

This is to certify that

[Redacted Name]

was awarded this qualification on

30 January 2012

with Distinction

Sir Bill Callaghan
Chair

Teresa Sudworth
Chief Executive

Master key certificate No. [Redacted]



The National Examination Board in Occupational Safety and Health
Registered in England & Wales No. 1010101
A Not-for-profit Company
Charity No. 1010101

E.g.: NEBOSH IGC Certificate

AGENDA



السلطة الوطنية
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والبيئة
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WSH Legal
Positions and
Training

1100 – 1115
**Radiation
Licensing Activities**

1115- 1145
Q&A



Radiation Licensing Activities

Presenter

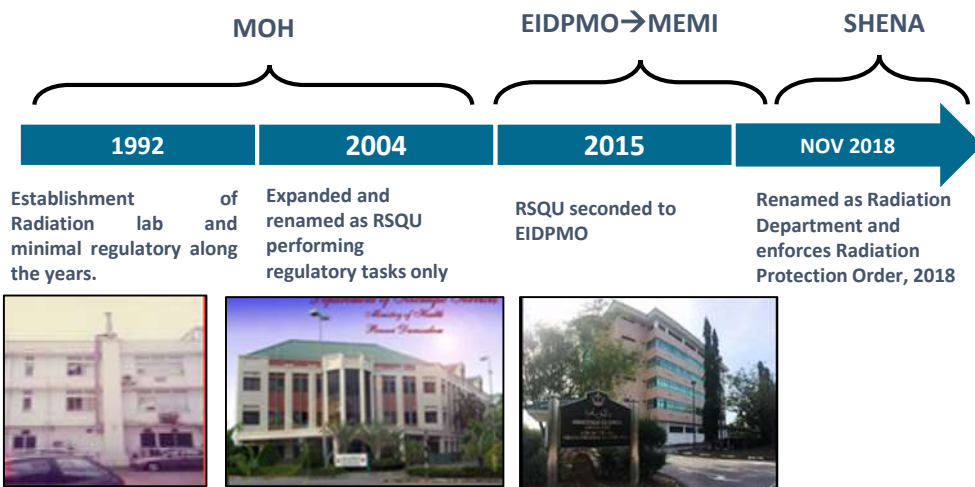
Sharizal Fareez Bin
Abdullah

Inspector, SHENA



اوتوريٽي ڪيٽسائن ڪسلامتن
 ڪصيتن دان عالم سڪيتر
 Safety, Health and Environment
 National Authority

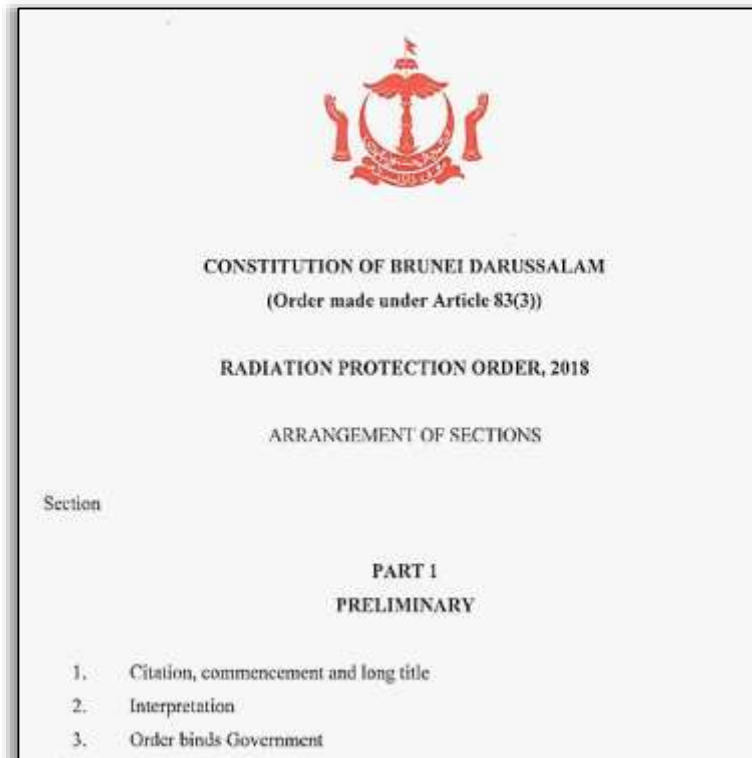
RADIATION DEPARTMENT



Ensuring Brunei a safe place to work & live

Responsibility of Radiation Department

- ☐ Ensure proper implementation of Radiation Protection Order, 2018.
- ☐ Acts on behalf of Brunei Government to regulate the safe use of ionizing radiation, for the protection of the worker, public and environment.
- ☐ Prevent the misuse of radiation sources for malicious act.
- ☐ Regulator and National focal point for ionizing radiation related matter.



The Radiation Protection Order, 2018 is available on <http://www.agc.gov.bn>

Radiation Protection Order, 2018

Scope:

- ☐ To control and regulate the import, export, manufacture, sale, disposal, transport, storage, possession and use of radiation sources in Brunei.
- ☐ Ensure safe and justified use of Radiation in both Industry and non-Industry sectors.
- ☐ Minimize the risk of radiation related incident.



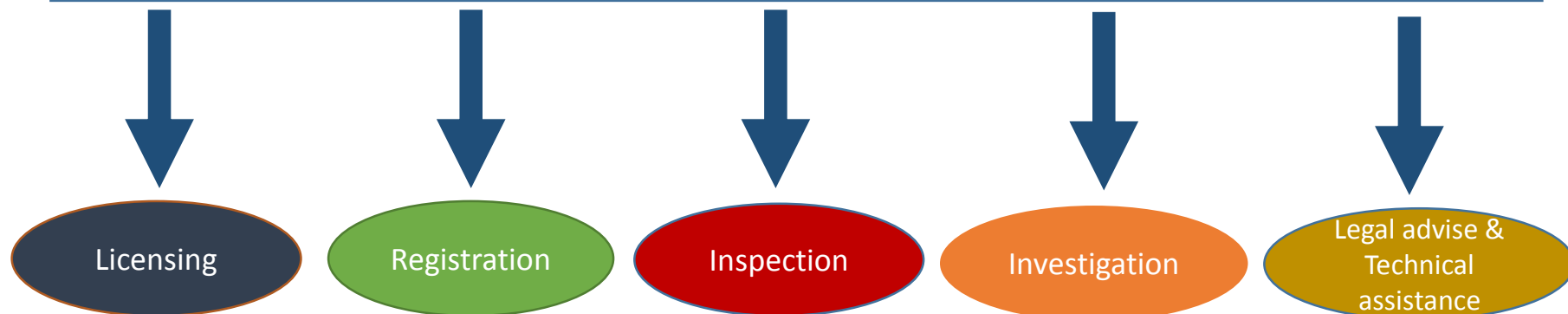
OBJECTIVES

- ❑ Main duties of the company are to ensure :
 - Premises and related facilities to be registered
 - Registration of their radiation worker
 - Application of the permit
 - Compliance with any regulation and requirement set by the authority

Why?

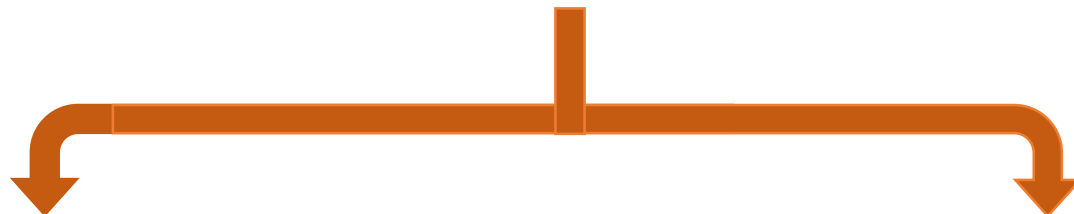
- ✓ To keep track of all Radiation activities (ionizing radiation) in Brunei
- ✓ Ensuring each and all Radiation related company are in compliance with the HSE.
- ✓ To keep track of all the Radiation source movement
- ✓ Ensuring all Radiation sources are not disposed within the country
- ✓ To ensure the safe handling with respect to health, safety and environment

Enforcement of Radiation Protection Order, 2018



- ☐ **Licensing** of every radiation practice, and authorized importation/exportation of radiation sources.
- ☐ **Registration** of every worker involved in the radiation work.
- ☐ **Inspection** at regular frequency (or whenever necessary) to verify the legal compliance and fulfillment of regulatory requirements by the licensee.
- ☐ Conduct radiation related **investigation** and provide support to other sectors in SHENA.
- ☐ Provide **legal advise and technical assistance** to ensure the safe use of radiation and protection of people from the radiation sources.

RADIATION ACTIVITIES IN BRUNEI



NON-INDUSTRY

- ☐ Radiotherapy
- ☐ Nuclear Medicine
- ☐ General Diagnostic Imaging
- ☐ Cargo scanner
- ☐ Education

INDUSTRY

- ❑ Radiography for NDT
- ❑ Well Logging
- ❑ Gauging

RADIATION STATISTICS IN BRUNEI



Facilities Applications

2018: 37
YTD: 20



Workers Registry

2018: 294
YTD: 141




Import/Export Permits

2018: 355
YTD: 164




LICENSING - RADIATION FACILITY

 <p>اتحادیه بین المللی حفاظت مناسبت کمیسیون: دین عالم سکتور Safety Health and Environment National Authority</p>	FORM RLB 1-INDUSTRY Radiation Department (SHENA) Tel: 2382000 ext 110										
COMPANY APPLICATION FOR THE USE OF RADIOACTIVE SOURCES, RADIOGRAPHY EQUIPMENT OR IRRADIATING APPARATUS IN INDUSTRY											
The form must be completed together with the relevant documents required and to be returned to: Radiation Department, Safety Health and Environment National Authority (SHENA), Level 4, Design and Technology Building, <u>Simpang 32-37, Kg. Anggerek Desa,</u> Bandar Seri Begawan, BB 3713 Negara Brunei Darussalam.											
NOTE: Please fill in the form electronically and submit in PDF format along with other supporting documents, organized with a proper heading and index in a pendrive.											
FOR OFFICIAL USE ONLY:											
Company Radiation Registration Number: <table border="1" data-bbox="266 678 602 714"><tr><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr></table>											
APPLICATION: <input type="checkbox"/> Approved <input type="checkbox"/> NOT APPROVED	Official Stamp:										
Key: C = Industrial company; F = Forwarding company; O = Others (Veterinary, educational, research centres)											
Remarks:.....											
Issuing authority's signature / name: Date:											
1 Page											
Issue 4, Revision 1 06 th November 2018											

 <p>اتحادیه بین المللی حفاظت مناسبت کمیسیون: دین عالم سکتور Safety Health and Environment National Authority</p>	FORM RLB 1-INDUSTRY Radiation Department (SHENA) Tel: 2382000 ext 110
1. APPLICATION FOR: (please tick (v) the applicable box below)	
<input type="checkbox"/> New application <input type="checkbox"/> Change of address <input checked="" type="checkbox"/> Renewal of application	
2. PURPOSE: (Please tick (v) the applicable box below)	
<input type="checkbox"/> MANUFACTURE <input type="checkbox"/> SALES <input type="checkbox"/> PURCHASE <input type="checkbox"/> INDUSTRIAL RADIOGRAPHY <input type="checkbox"/> TRACER STUDIES <input type="checkbox"/> WELLOGING <input checked="" type="checkbox"/> OTHERS (PLEASE SPECIFY): <u>Storage of RA Sources</u>	
3a. NAME OF APPLICANT: <u>SHARIZAL FAREEZ BIN ABDULLAH LIEW</u>	
3b. NAME AND ADDRESS OF COMPANY <u>SAFETY HEALTH AND ENVIRONMENT NATIONAL AUTHORITY (SHENA)</u> <u>Level 4, Design & Technology Building</u> <u><u>Simpang 32-37, Kg. Anggerek Desa</u></u> <u>Bandar Seri Begawan BB3713</u> <u>Brunei Darussalam</u>	
Tel: +673 2382000 Mobile: +673 1234567 Fax: -	
4. PARTICULARS OF PERSON RESPONSIBLE FOR THIS APPLICATION	
a) NAME (in capital letters) : <u>AHMAD BIN MUSA</u>	
b) IC/passport number: <u>01-065678</u> Colour: <u>YELLOW</u>	
c) Position held (managerial/executive level) : <u>INSPECTOR</u>	
d) Tel: <u>+673 2382000</u> Mobile: <u>+673 8120988</u> Fax: -	
5. Address of premises where the radioactive sources/ nuclear materials/irradiating apparatus is/are to be used/stored/manufactured: <u>Level 4, Design & Technology Building</u> <u><u>Simpang 32-37, Kg. Anggerek Desa</u></u> <u>Bandar Seri Begawan BB3713</u> <u>Brunei Darussalam</u>	
2 Page	
Issue 4, Revision 1 06 th November 2018	



LICENSING- RADIATION FACILITY

 اتحادیه صحت و ایمنی و محیط زیست کمیسیون: دین عالم سیکٹر Safety, Health and Environment National Authority		FORM RLB 1-INDUSTRY Radiation Department (SHENA)			
Tel: 2382000 ext 110					
6. NAME OF RADIATION PROTECTION OFFICER: AHMAD BIN MUSA Date of Birth: 11 th MAY 1993 IC/passport no: 01-065678.....Colour: YELLOW Contact no: +673 2382000 (office) Mobile: +673 8120988 Email: AHMADMUSA@SHENA.GOV.BN					
7. INFORMATION OF RADIOACTIVE MATERIALS TO BE USED					
Name of Radioactive material	Physical form	Name of manufacturer & source ID no.	Source activity to be used (in Bq or Ci)	Purpose of use: W= welloging Ra= radiography Trac= tracer studies O= others	
Ir-192	SOLID	RT COMPANY	30 Ci	Ra	
Se-75	SOLID	RT COMPANY	40 Ci	Ra	
8. INFORMATION OF IRRADIATING APPARATUS TO BE USED					
Name of Irradiating apparatus	Type and model	Name of manufacturer	Maximum voltage	Maximum current	Purpose of use: W= welloging Ra= radiography Trac= tracer studies O= others
REFER TO SEPARATE ATTACHMENT SUBMITTED					
Issue 4, Revision 1 06 th November 2018					

3 | Page

 اتحادیه صحت و ایمنی و محیط زیست کمیسیون: دین عالم سیکٹر Safety, Health and Environment National Authority		FORM RLB 1-INDUSTRY Radiation Department (SHENA)	
Tel: 2382000 ext 110			
9. PLEASE PROVIDE DETAIL INFORMATION FOR THE FOLLOWING LISTED ITEM(S):			
a) Location, room/site layout plan and dimension; b) Materials used for walls ceiling and floor; c) Windows, doors and access-location, size and materials used; d) Equipment to be installed: specification of radiation level; location in the room/site layout plan and location of control panel; e) Surrounding: areas adjacent to the room			
Radiation Department Approval reference no: MEMU/RSOU/RPT/CO/053/17			
10. Please provide a radiation protection plan (use additional sheet if required)			
REFER TO SEPARATE ATTACHMENT SUBMITTED			
11a. Qualifications, experience of personnel involved in the usage of the radioactive materials/irradiating apparatus (use additional sheets if required)			
Name	Position held	Qualification/course attended	
REFER TO SEPARATE ATTACHMENT SUBMITTED			
11b. Please state experience of the personnel involved above (use additional sheets if required)			
Name	Position held	Organization	Length of period
REFER TO SEPARATE ATTACHMENT SUBMITTED			
12. DECLARATION			
I SHARIZAL FAREEZ BIN ABDULLAH LIW, IC/passport number 00-045678 hereby declare that on behalf of my own company/for SAFETY HEALTH AND ENVIRONMENT NATIONAL AUTHORITY (SHENA), that all information I have provided in this Application Form is correct and true to my best knowledge and belief. Should verification is required on the said information, I hereby authorise the Authority to carry out the necessary investigations.			
Application signature: <i>Sharizal Farez</i>		Date: 1 st November 2018	
Official Company Stamp:			
Issue 4, Revision 1 06 th November 2018			

4 | Page

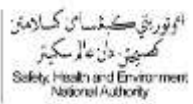
LICENSING - RADIATION FACILITY

- ☐ Applicable to every entity that wishes to conduct radiation work.
- ☐ License certificate of validity up to 1 year will be issued for successful application.
- ☐ Types of Licenses:
 - Industry
 - Well logging
 - Radiography
 - End- User
 - Medical
 - Forwarder
 - Transporter
 - Sales
 - Storage
 - Education
 - Government
- ☐ No facility is allowed to practice radiation work without valid license from the Authority.

117488

 <p style="text-align: center;"> سورسا شركة تطوير البنية التحتية Infrastructure Development Public Authority </p>	NAME S.N. & NUMBER Radiation Department (SIRSA) Tel. 2305000 ext. 110
1. APPLICATION FOR (please tick (X) the applicable box below) <input type="checkbox"/> New Application <input checked="" type="checkbox"/> Renewal of application	2. NAME AND ADDRESS OF LAST EMPLOYER Radiation Safety and Quality Unit Level 5, Sakhrat Building Al Matarah Sector, P.O. Box 30000 Beirut - Lebanon Tel: +972 3382405 E-mail:
3. NAME AND ADDRESS OF APPLICANT Sharafat Farass Al-Madhatat, Jeddah No 55, Safa, P.O. Box, Jeddah Jeddah - P.O. Box 2234 Beirut - Lebanon Date of birth: 22/02/1990 (dd/mm/yyyy) Age: 28 Nationality: Lebanese ID/Passport number: 0145 Contact: 977311 Job position: Radiation Inspector Last certificate date received by you: 28.8.2006 Please attach past 5 years dose records from all past employers together with the application	
4. HAVE YOU EVER HAD A RADIOLOGY-RELATED MEDICAL FITNESS TEST BEFORE? <input checked="" type="checkbox"/> No, when August 2012 <input type="checkbox"/> Yes	
5. NAME AND ADDRESS OF PRESENT EMPLOYER Safety Health and Environment National Authority (SHENA) Level 4, Design & Technology Building Safa 27, P.O. P.O. Box 30000 Beirut - Lebanon Tel: +972 3382000 Fax: Beirut: +972 3382000	
6. EMPLOYER'S SIGNATURE AND/OR STAMP <div style="border: 1px solid black; width: 100px; height: 30px; margin: 0 auto;"></div>	

	اوزون بىخەتەرلىك شىركىتى ئۇيغۇر تىل سەنئەتچىسى Safety Health and Environment Network Activity	FORM RUB 2-WORKER Radiation Department (SHENA) Tel: 2382000 ext 110
7a. QUALIFICATIONS/COURSE ATTENDED (PLEASE ATTACH RELEVANT COPIES OF CERTIFICATE/TRAININGS TOGETHER WITH THE APPLICATION)		
QUALIFICATIONS/COURSE ATTENDED		YEAR
Radiation Regulatory Course, IAEA		2015
Postgraduate Education Course on Radiation Safety, IAEA		2018
Radiation Security Inspection Course, IAEA		2017
Security of radioactive materials, IAEA		2013
7b. STATE THE EXPERIENCE EVER INVOLVED IN RADIATION WORKS		
ORGANIZATION	POSITION	LENGTH OF PERIOD
SHENA	Radiation Inspector	1 year
RSQU	Radiation Regulator	10 years
RT Testing Company	NDT Inspector	3 years
8. DECLARATION		
<p>I, Sharifal Faresin bin Abdullah Uiew hereby declare that all information I have provided in this Application is correct and true to the best of my knowledge and belief. I further acknowledge that any inaccuracy or omission of information called for in this Application form shall amount to misrepresentation and the Authority has the absolute right to reject my application.</p> <p style="text-align: center;"><i>Sharifal Faresin bin Abdullah Uiew</i></p> <p>Application signature: _____ Date 1st November, 2018</p> <p>Official Company Stamp: </p>		



REGISTRATION - WORKER

- ☐ Applicable to every worker that conducts radiation work.
- ☐ Supporting documents to be submitted in softcopy while the RLB2 form has to be in both hardcopy and softcopy.
- ☐ Every radiation worker will be assigned a unique ID e.g. 02345/18.
- ☐ Radiation card and certificate of validity up to 1 year issued for successful application.
- ☒ No worker is allowed to carry out radiation work unless registered with the Authority.

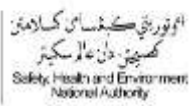


INSPECTION

- ☐ Planned inspection is usually conducted before issuance of radiation license certificate.
- ☐ Validate the information provided in license application for compliance purpose.
- ☐ Licensee will be informed prior to the planned inspection.
- ☐ Areas of interest include operation, storage, documentation and record keeping, workers, etc.
- ☐ Unannounced inspection is conducted if suspicious or non compliance activity is suspected.
- ☐ Licensee is expected to comply and be cooperative in every regulatory inspection.
- ☐ Remedial order and stop work order can be issued by the Authority if deemed necessary.
- ☐ Report issued after every inspection.

RADIATION ACTIVITIES





Information

- ❑ Focal point for Radiation matter in Brunei.
- ❑ Provide technical assistance (in terms of advice and action) when deemed appropriate by the Authority.
- ❑ Based on Radiation Protection Order 2018, IAEA safety standards and relatable International Standards.
- ❑ For any enquiries with regards to Ionizing Radiation matter, you may email to info@shena.gov.bn or to any SHENA Radiation Team member or direct call to (+673 2382000) during office hour.

HSE is everyone's responsibility.

Together we can make a change,

in ensuring Brunei a safe place to work and live.

AGENDA



الهيئة الوطنية
للسلامة والصحة
والبيئة
Safety, Health and Environment
National Authority

OPENING

0800 – 0845
Registration

0800 – 0845
Refreshment

0850
Safety Briefing

0855
Al-Fatihah and Doa
Selamat

0900 - 0910
Opening Remarks

SESSION

1

0910 – 0920
SHENA Background
& Organisation

0920 – 0930
Legislation/ Law
update/ position

0930 - 0950
SHENA Current
Status and Way
Forward

0950 - 1000
Q&A



SESSION

2

1000 – 1010
2019-21 Themes

1010 – 1020
Introduction to
'Guidelines for the
Safe Use of
Scaffolding'

1020 - 1030
Crane Operations

1030 - 1040
Q&A



SESSION


3

1040 – 1100
WSH Legal
Positions and
Training

1100 – 1115
Radiation
Licensing Activities

1115- 1145
Q&A





Q&A (Open Questions)

*Safety, Health and Environment
National Authority*

SHENA SAFETY, HEALTH AND ENVIRONMENT NATIONAL AUTHORITY



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Darussalam

THANK YOU



*We are committed to make
a difference and ensuring
Brunei is a safe place to
work and live*

*Brunei
Darussalam*