

اوتوريتي ڪبغسائ کسلامتن کصيحتن دان عالمرسکيتر

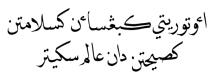
Safety, Health and Environment National Authority

BETTER SAFE THAN SORRY THE SHENA STORY

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16 MARCH 2021





OVERVIEW OF SHENA



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BACKGROUND

- 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, health and environment as well as 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 to the SHENA Board of Directors who reports to the Minister in Charge namely the Minister of Energy.
- Appointed inspectors have specific legal powers to enforce and regulate workplace safety, health and environment as well as radiation laws on behalf of SHENA.



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FUNCTIONS

INSPECTIONS & MONITORING VISITS

INVESTIGATION

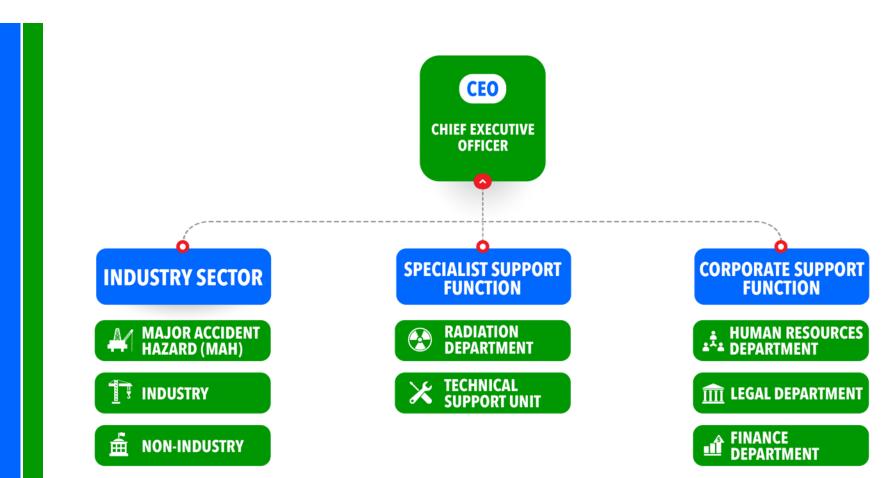
EXAMINATION OF NOTIFICATION

- **EXAMINATION AND CERTIFICATION OF SAFETY CASE**
- **EXAMINATION OF SAFETY MANAGEMENT SYSTEM**
- LICENSING AND REGISTRATION
- HSE ADVICE AND GUIDANCE TO INDUSTRY



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FUNCTIONAL CHART





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VISION, MISSION & PRINCIPLES

VISION

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

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.

MISSION

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:

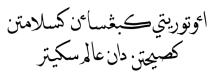
- Laws and regulations
- Set by the government
- Implemented by those who create the risk
- Underpinned by continuous improvement

PRINCIPLES

Our operational philosophy is governed by four key principles:

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





NATIONAL HSE THEME



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NATIONAL HSE THEMES

62 WORK RELATED FATALITIES IN THE LAST 8 YEARS

HOW CAN WE PREVENT THIS?

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

Four (4) National HSE themes have been set for Brunei industry, developed from a risk based review of performance over the last eight years.



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WORK RELATED FATALITIES

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

2013 **Construction - 6** 10 Fall from height, hit / crushed by machine Other industries – 4 or objects, electrocution **Construction - 7** 2014 12 Other industries - 5 Fall from height, hit / crushed by machine, Inhalation of smoke, fire **Construction - 8** 2015 10 Other industries - 2 Fall from height, hit by objects, landslide **Construction - 4** 2016 6 Other industries – 2 Fall from height, hit / crushed by machine, electrocution, drowning **Construction - 4** 5 2017 Other industries - 1 2018 **Construction - 5** 8 Other industries - 3 electrocution **Construction - 6** 2019 Other industries – 1 electrocution **Construction - 1** 4 2020 Other industries - 3 www.shena.gov.bn

3 Fall from height, struck by falling objects, drowning, fire

5 Fall from height, struck by objects, boat collision,

3 Fall from height, struck by object, crushed by object,

Grass cutter, hit by object, lift failure, electrocution

Source: Ministry of Health



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Safety, Health and Environment National Authority

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





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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



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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.

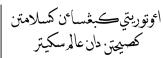
Key Findings:

- 1. Ageing equipment, Maintenance,
- 2. Management of Structural Integrity,
- 3. Poor integrity leadership & competence









THEME 4: EDUCATIONAL INSTITUTION, HEALTHCARE INSTITUTION, COMMERCIAL AND GOVERNMENT BUILDINGS

 In 2020, inspections of 20 educational institutions (MOE, MORA & Private School), were conducted by SHENA.

Key Findings:

- 1. Lack of training and awareness of managing safety and health in educational institution
- 2. Housekeeping issues (i.e. storage area)
- 3. Management of hazardous substances (i.e. chemical waste)
- 4. Health & Safety compliance during renovation & maintenance activity





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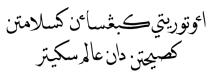
CONSTRUCTION SELF-ASSESSMENT CHECKLIST

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Please refer to Workplace Safety and Health in Construction Sites. NAME OF COMPANY & ADDRESS PROJECT TITLE (as relevant) PROJECT MANAGER (as relevant)	Health (Construction) Re	(SHENA SHENA	توټورېټي ڪېشيامي کساد کمسينۍ دلن عالم سکيټر National Authority	SE		ESSMENT ERAL WOR			•		DOC NO.: SHENA/IND/3.1 (REV.1) MAY 2020	
WORKSITE ADDRESS TYPE OF WORK ACTIVITIES TOTAL NO. OF WORKERS AT WORKSITE	General building and work Refurbishment work Maintenance and repa	The is of of the mon A co Safe	objective of this che nly a guide, scoring s he operator under th re than one assessme opy of the checklist a	ecklist is to make should not be cor he law. If you ans ent. You are adv and proven evide	employers, j nstrued as in swer 'No', yo ised to regul ence shall be	principals e nplying any ou should ta larly review e kept by th	tc. aware of facto liability nor sho ke action to learn and update you e HSE focal point	rs that have a ald it be take n more about r assessmen t of your cor	an imp en to er it and f t to ens	act on h ncapsul ix the h sure yo /organi	health ar ate all th nazard y u maint ization.	ace Safety and Health Order, 2(ad safety. Remember this check the responsibilities and obligati ou identified. You may need to ain a safe workplace. This checklist will be reviewed conducted by SHENA.	klis ion: o do
PROJECT / CONTRACT VALUE WORKPLACE SAFETY AND HEALTH (CONSTRUCTION) REG A SAFETY AND HEALTH (CONSTRUCTION) REG I Do you have and Implement a system in your werkplace environment? Deloy Deloy I I dednet reporting			ADDRESS WORKPLACE Warel ACTIVITY Const Manut Maintu Printi Educa institu		en ing ce	Agriculture Automotive		Estab Comm Waste Recy Oil &			t	Logistics & Transportation IT Marine Others:	
	Emergency preparedness TOTAL NO. EMPLOYEES COTE		FOTAL NO. OF MPLOYEES ON SITE	1	NAME OF OWNER/ OCCUPIER				CONTACT NO EMAIL			_	
Risk Assessment Site contract sum of building operation or works of en- carried out in a worksite is 350 million or more? If yes, a) Do you conduct a review of the safety and health ma- worksite at least once every down of the safety and health ma- worksite at least once every down of the safety and health ma- worksite at least once every down of the safety and health ma- mangement system of the worksite at least once every as the construction period? Do you appoint a workplace safety and health coor the construction period? Do you have a full-time competent workplace safety by SiENA during the construction period? Do you have a workplace safety and Health Committe construction company, not on as in the safety and Health Committe construction company, not on any safety and the safety and Health Committe construction company, not on any safety and the safety and Health Committe construction company, not on any safety and the safety of the safety and the safety and the safety and the safety of the safety and the safety and the safety and the safety of the safety and			Incident Emerger	Item in your wor anagement Systement reporting scy preparedness rick Practices essment and/or supervise sesment and/or supervise ternal IRSE insp ternal IRSE i	kplace to m em (SMS) / 1 s s k after healt isors for wo section in you rour employ ic or corrosi icate HSE m ervene uns: vaste in you facilities (e, ng areas) for	anage healt HSE Policy / th, safety ar rk activitie: our workpla ent (PPE) to orkplace? ees? ive substar atters to ya afe acts , pi r workplace g, toilets, db r your emp	h, safety and env HSE Plan d environmental ? ce? o protect your en ices in your worf wir employees? ? ractices and con ??	matters nployees? cplace and ditions in shing Verif (Signatu Signatu	ate)	ne &	N/A	REMARKS/IUSTIFICATIO	
SHENA SEEKS THE SUPPORT OF ALL RELEVANT STAKEHOLDERS TO ENSURE BRUINEI A SAFE PLACET OWORK AND LIVE For further inequiries and charlication, please contact us T: 4673 282 000 E: initialithemagowing W: synxehma gowing H: 68 FB @thema.gov.bn													

GENERAL WORKPLACE SELF-ASSESSMENT CHECKLIST

 CONSTRUCTION SELF-ASSESSMENT CHECKLIST





LEGAL FRAMEWORK



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LEGAL FRAMEWORK

ENFORCEMENT OF WORKPLACE SAFETY AND HEALTH ORDER (WSHO), 2009

This Order describes the general health and safety requirements on all workplaces.

Duties are placed primarily on the Employer, with further duties on employer roles, such as contractor, sub-contractor, designer, manufacturer, etc. There are also duties placed on Principals, Occupiers and Self- Employed Persons.

ENFORCEMENT OF RADIATION PROTECTION ORDER, 2018

This Order controls and regulates the import, export, manufacture, sale, disposal, transport, storage, possession, and use of radioactive materials and controlled apparatus.

This Order also makes provisions in relation to the non-proliferation of nuclear weapons and to establish a system for the imposition and maintenance of nuclear safeguards in accordance with the requirements of the International Atomic Energy Agency (IAEA).

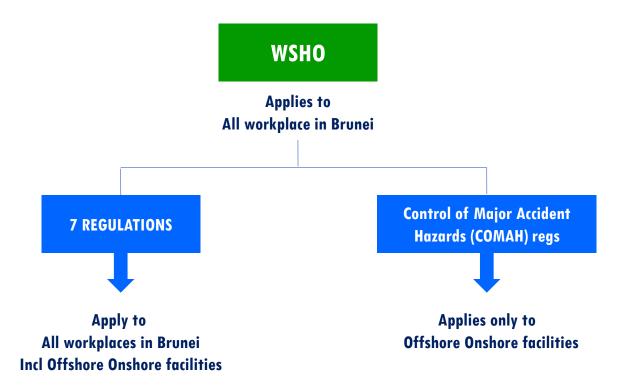
The Laws ensure that those creating the risk reduce those risks to persons (employees and public), assets and the environment, to As Low As is Reasonably Practicable.



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LEGAL FRAMEWORK

The WSHO is the highest level safety and health legislation in Brunei It is the enabling framework for all other HSE regulations





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REGULATIONS UNDER WSHO 2009

WORKPLACE SAFETY AND HEALTH ORDER, 2009





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LEGAL DUTIES



Minimum / General HSE Requirements:

- 1. Appoint a competent person
- 2. Risk assessment
- 3. Safety Committee
- 4. Have the right workplace facilities
- 5. First aid in work
- 6. Provide safety training and awareness
- 7. Reporting the incident



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1: APPOINT HSE PERSON

REGULATION 8 OF WORKPLACE SAFETY AND HEALTH (WORKPLACE SAFETY AND HEALTH OFFICERS), 2014

"8. (1) Every workplace within the prescribed class or description of workplaces specified in the Second Schedule shall have appointed in writing in respect thereof a workplace safety and health officer."

Summary:

As an employer/ occupier you must appoint a competent person to help you meet your health and safety legal duties , e.g. safety coordinator, safety officer, safety auditor.



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2: SAFETY MANAGEMENT SYSTEM

REGULATION 44 OF WORKPLACE SAFETY AND HEALTH (GENERAL PROVISIONS) REGULATIONS, 2014

"44. (1) This regulation shall apply to the following class or description of factories-

(a) factories engaged in the processing or manufacturing of petroleum,

petroleum products, petrochemicals or petrochemicals products;

(b) factories engaged in the manufacture of semiconductor wafers; and

(c) factories engaged in the manufacture of fabricated metal products, machinery or equipment and in which 100 or more persons are employed.(1) Every workplace within the prescribed class or description of workplaces specified in the Second Schedule shall have appointed in writing in respect thereof a workplace safety and health officer."

Summary:

Safety management system consist of Safety policy; Safe work practices; Safety training; Group meetings; Incident investigation and analysis; In-house safety rules and regulations; Safety promotion; System for the evaluation; selection and control of contractors; Safety inspections; Maintenance regime; Risk assessment; Control of movement and use of hazardous chemicals; Occupational health programmes; Emergency preparedness.



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3: WORKPLACE HEALTH AND SAFETY COMMITTEE

REGULATION 3 OF WORKPLACE SAFETY AND HEALTH (SAFETY COMMITTEE) REGULATIONS, 2014

"These Regulations shall apply in relation to every workplace in which 50 or more persons are ordinarily at work, excluding persons who carry out any work which is of a temporary nature and is not ordinarily carried out in the workplace"

Summary:

Consult your workers: employees are often the best people to understand risks in the workplace. Involving them in making decisions shows that you take their health and safety seriously. In a small business, you might choose to consult your workers directly. Larger businesses may consult their WSHO Officer.



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4: RISK ASSESSMENT

REGULATION 3 OF WORKPLACE SAFETY HEALTH (**RISK MANAGEMENT**) **REGULATIONS**, 2014

"3. (1) In every workplace, the employer, self-employed person and principal shall conduct a risk assessment in relation to the safety and health risks posed to any person who may be affected by his undertaking in the workplace"

Summary:

<u>Under the Risk Management Regulations you must protect your employee or any one who could be affected</u> <u>by your activity e.g. Public / Visitors:</u>

- 1. identify what could cause injury or illness in your business (hazards)
- 2. decide how likely it is that someone could be harmed and how seriously (the risk)
- 3. take action to eliminate the hazard, or if this isn't possible, control the risk (eliminate, reduce, isolate, control, PPE, system)



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5: PROVIDE SAFETY TRAINING AND AWARENESS

REGULATION 12 OF WORKPLACE SAFETY AND HEALTH ORDER, 2009

" (e) ensuring that the person at work has adequate instruction, information, training and supervision as is necessary for him to perform his work"

Summary:

Everyone who works for you needs to know how to work safely and without risk to their health. This includes contractors and self-employed people .You must give your workers clear instructions and information, as well as adequate training. Make sure you include employees with particular training needs, for example new recruits, people changing jobs or taking on extra responsibilities, young employees and health and safety representatives.



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6: PROVIDE THE RIGHT WORKPLACE FACILITIES

WORKPLACE SAFETY AND HEALTH (GENERAL PROVISIONS) REGULATIONS, 2014

- 1 General Provisions Relating to Health;
- 2 General Provisions Related to Safety;
- 3 Special Provisions Relating to Health, Safety And Welfare.

Summary:

Employers must provide welfare facilities and a working environment that's healthy and safe for everyone in the workplace, including those with disabilities.

- Welfare facilities the right number of toilets and washbasins, drinking water , having somewhere to rest and eat meals and control of dust and fumes.
- A healthy working environment a clean workplace with a reasonable working temperature, good ventilation, suitable lighting and the right amount of space and seating
- A safe workplace well-maintained equipment, with no obstructions in floors and safe access and egress



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7: FIRST AID IN WORK

Summary:

Employers must make sure employees get immediate help if taken ill or injured at work.

You must have:

- A suitably stocked first aid kit
- An appointed person or people to take charge of first aid arrangements
- Information for all employees telling them about first aid arrangements



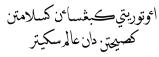
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8: INCIDENT REPORTING

WORKPLACE SAFETY AND HEALTH (INCIDENT REPORTING) REGULATIONS, 2014

FATALITY	INJURY	DANGEROUS OCCURRENCES	OCCUPATIONAL DISEASE	MAJOR ACCIDENT
DEFINITION	DEFINITION	DEFINITION	DEFINITION	DEFINITION
Employee or self-employed person	Injury to employee who was given 3 days sick leave or admitted 24hrs in hospital	Any occurrence specified in the Second Schedule	Any disease specified in the Third Schedule	Uncontrolled loss of containment, fire or explosion leading to serious danger to
	Accident to any person who is not at work or			health, property or environment
	self employed person at the workplace which requires him to be			Major damage to facility structure
	taken to hospital for treatment in respect			Death or serious injury to 3
1	to that injury	3	4	or more persons





WSH OFFICERS & CO-ORDINATORS

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 Coordinator appointed in respect thereof.





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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



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WORKPLACE SAFETY AND HEALTH OFFICER

WORKPLACES REQUIRING WSH OFFICERS

- (1) Shipyard,
- (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

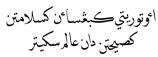
POWER OF WSH OFFICER

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

OF APPROVAL

- Valid for 2 years
- Certificate shall not be transferable
- If lost, destroyed or defaced apply for replacement
- \$110 (Approval) \$10 (Replacement) \$60 (Renewal)





LEGAL RESPONSIBILITIES

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:

- 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



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Safety, Health and Environment National Authority

THANK YOU

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