

NATIONAL COMPETENCY STANDARDS & COMPETENCY BASED TRAINING CURRICULUM FOR

OCCUPATIONAL HEALTH AND SAFETY OFFICER NVQ Level 4

(Competency Standard Code: N85S011)



Developed and Validated by;

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State Ministry of Skills Development, Vocational Education, Research and Innovation

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PREFACE

National Competency Standards (NCS) and curriculum are an essential element for the implementation of a unified Technical and Vocational Education & Training System for Sri Lanka and forms the basis for the National Vocational Qualification Framework of Sri Lanka, which provides for the award of nationally and internationally recognized qualifications. The NCS are developed in consultation with industry and are designed using a nationally agreed specific format to maintain uniformity and consistency of standards amongst occupations.

The NCSs and Curricular specify the standards of performance of a competent worker and the various contexts in which work may take place. NCS describe the knowledge, skills and attitudes required in a particular occupation and curriculum includes signals what student must be able to do in employment and can ideally serve as a link between education and training and the needs of the labor market. NCS and curriculum together provide explicit advice to assessors and employers regarding the knowledge, skills and attitudes to be demonstrated by the candidates seeking formal recognition for the competencies acquired either following training or through work experience.

NCS focus on what is expected of a worker in the workplace rather than on learning process.

- NCS stress upon the ability to transfer and apply knowledge and skills to new situations and environments.
- In NCS and curriculum the emphasis is upon outcomes and upon the application of knowledge and skills, not just the specification of knowledge and skills.
- NCS and curriculum are concerned with what people are able to do and the ability to do a task in a range of contexts.
- NCS and curriculum include all aspects of workplace performance and not only narrow task skills

NCS especially can serve a number of purposes including:

- Providing advice to curriculum developers about the knowledge, skills and attitudes to be included in the curriculum.
- Providing specifications to Competency Based Assessors about the knowledge, skills and attitudes to be demonstrated by candidates.
- Providing advice to industry about job functions, which in turn can be used for the development of job descriptions, performance appraisal systems and work flow analysis.

The lead organization for the development of NCS and Curriculum is the National Apprentice & Industrial Training Authority. The standards so developed are endorsed by the Tertiary & Vocational Education Commission as National Documents.

There is a requirement to review the standards within the prescribed period as appropriate as and when required, with the assistance of relevant industry groups and incorporate the changes in the National Competency Standards and curricular.

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NATIONAL COMPETENCY STANDARD & COMPETENCY BASED TRAINING CURRICULUM

For

OCCUPATIONAL HEALTH AND SAFETY OFFICER NVQ LEVEL 04

(Competency Standards Code: N85S011)

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NATIONAL COMPETENCY STANDARD For OCCUPATIONAL HEALTH AND SAFETY OFFICER NVQ Level 04

(Competency Standards Code: N85S011)

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Packaging for National Vocational Qualifications (NVQ)

 National certificate at NVQ Level (04) in the Occupation of Occupational Health and Safety Officer will be awarded to those who are competent in units U01+ U02+ U03+ U04+ U05+BU1+BU2+BU3- N85S011Q1L4

Occupational Definition

 An Occupational Health and Safety Officer is a qualified officer responsible for the monitoring and controlling of occupational health and safety compliance, related rules and regulations applicable to the organization.

Unit Title			
omt mie	Identify hazards in the workplace		
Unit Descriptor	safety in		ers the competencies required to perform workplace tion, section wise to observe sections safety and s, gather information and record data in a check list
Unit Code	N85S01	1U01	
Elements of Comp	etence	Perf	ormance Criteria
Perform wo safety insp	-	1.1	Workplace layout, Process flow diagram are studied as per the organizational guidelines/ procedures
		1.2	Inspection Plan is followed for the safety inspection as per the organizational guidelines/ procedures
		1.3	Resources are identified and arranged as per the organizational guidelines/ procedures
		1.4	Workplace inspection is carried out as per the organizational guidelines/ procedures
		1.5	Evidence are collected by observing unsafe acts and unsafe conditions
		1.6	Gathered information and data recorded in the check list using standard format
2. Identify phy hazards	ysical	2.1	Physical hazards are observed physically and complains of worker
		2.2	Measuring instruments are used according to the guidelines
		2.3	Physical hazards are ensured according to the applicable standards
		2.4	Information are recorded and reported to the higher management as per the organizational guidelines/procedures
3. Identify me hazards	chanical	3.1	Safety aspects of the machines are checked by following the manufacturer's manuals
		3.2	Pressure vessels are visually inspected as per safety requirements
		3.3	Service lines are checked according to the manufacturer's manuals and Safe Operational Procedures
		3.4	Lifting equipment are checked according to the manufacturer's manuals and Safe Operational Procedures

	3.5	Availability of statutory test certificate is checked and necessary actions are taken as per the legal requirements and organizational guidelines/ procedures
4. Identify electrical hazards	4.1	Electrical system and instruments are observed according to the Institute of Electrical Engineers (IEE) Standards and available local standards
	4.2	Potential and existing unsafe electrical hazards are identified as per Safe Operational Procedures
5. Identify chemical hazards	5.1	Chemical hazards are observed by smell, odour, itching, tearing, difficulties in breathing, vomiting or any other discomfort, improper storage, spillage of chemicals, availability of Material Safety Data Sheets (MSDS) and conventional labels
	5.2	Measuring instruments are used as applicable according to the guidelines
	5.3	Chemical hazards are ensured according to the applicable standards
	5.4	Information are recorded and reported to the higher management as per the organizational guidelines/procedures
	5.5	Chemical waste disposal system is ensured as per material safety data sheets (MSDS)
6. Identify biological hazards	6.1	Biological hazards are observed according to the guidelines
	6.2	Personal hygiene of the employees is observed and identified according to the guidelines
	6.3	Employees are advised to prevent occupational diseases
	6.4	Food, beverages, water and other organic waste are identified by observing
7. Identify psychosocial	7.1	Psychosocial hazards are observed according to the guidelines
hazards	7.2	Employees are advised to prevent psychosocial hazards
	7.3	Employees are referred for specialized medical advice
8. Identify fire hazards	8.1	Visual inspections are carried out to identify Potential fire hazards
	8.2	Visual inspections are carried out to identify fire hazards due to improper housekeeping and

	maintenance
	8.3 Visual inspections are carried out for static electricity hazards according to safety procedures
	8.4 Visual inspections are carried out for Earth bonding of fuel tankers are ensured before loading and unloading of fuel
9. Identify work place	9.1 Work general safety hazards are observed
general safety	9.2 Affected parties are advised according to the guidelines
	9.3 Information are recorded and reported to the higher management as per the organizational guidelines/ procedures
10. Ensure ergonomics practices	10.1 <i>Ergonomic hazards</i> are observed and identified according to the Safe Operational Procedures
	10.2 Following of good ergonomic practices is ensured while working as per ILO (International Labour Organization) guidelines
	10.3 Employees' awareness on ergonomic practices is ensured by interviewing
	10.4 Affected parties are advice according to the Safe Operational Procedures
	10.5 Information are recorded and reported to the higher management as per the organizational guidelines/ procedures
11. Ensure practices of personal safety	11.1 Given PPE are ensured of employees, contractors and visitors for the task as per the organizational guidelines/ procedures
	11.2 Employees are observed for wearing standard Personal Protective Equipment at appropriate task
	11.3 Pre use inspection is ensured for critical PPE according to the PPE matrix
	11.4 Storage of PPE are checked as per the manufacturers guidelines
	11.5 Condition of PPE are checked by visually
	11.6 Suitable attire/clothing for work are ensured according to the Safe Operational Procedures
	11.7 Behavioral changes, leave patterns, poo productivity/output of the employees observed and communicated to the higher management

12. Ensure health and welfare facilities	12.1 Availability of health and welfare facilities are ensured as specified by Factories Ordinance and National health guidelines
	12.2 Health and hygienic practices of the employees are identified as per organizational procedures/guidelines
	12.3 Food handlers personal hygiene and safety practices are identified as per organizational procedures/guidelines

Work connected to this unit may take place at places of work such as Manufacturing, Agriculture and Plantation, Fisheries, Construction, Services (Hospitals / Schools / Airports / Harbours), Tourism, Apparel and other sectors. This work may be performed individually or as a member of a team.

Elaboration of terms in performance criteria

- Resources in PC 1.3 may include: Equipment, material, human resources and financial requirement
- **Physical hazards** in PC 2.1 may include: Excessive noise, extreme temperatures, unusual humidity, Lack of illumination, poor ventilation, Excessive vibration, radiation
- Pressure vessels in PC 3.2 may include; Steam boilers, Steam receivers, Air receivers, Gas receivers
- Service lines in PC 3.3 may include; Steam and compressed air line, Gas line
- Safety requirements in PC 3.2 may include; maximum and minimum water levels, on water level gauge, law water levels alarm, availability of red line on the pressure meter to indicate safe working pressure, Water drain system, Availability of safety valves
- **Lifting equipment** in PC 3.4 may include; chain, ropes, belts and lifting tackles, hoist & lift, cranes and other lifting machines
- **Chemical hazards** in PC 5.1 may include; Fire, explosions, poisoning, chemical incompatibility
- **Biological hazards** in PC 6.1 may include; viruses, bacteria, insects, animals, etc., that can cause adverse health impacts. For example, mould, blood and other bodily fluids, harmful plants, sewage, dust and vermin.
- **Psychosocial hazards** in PC 8.1 may include; Psychosocial hazards include those that can have an adverse effect on an employee's mental health or wellbeing. For example, sexual harassment, victimisation, stress and workplace violence.
- Potential fire hazards in PC 7.1 may include; Electricity, Combustible material,

Flammable Liquids and Gas, Chemical, Heat/spark generation due to welding, cutting, grinding, Soldering, abrasion and friction

- Workplace general safety hazards in PC 9.1 may include; -Work at height, Slip trip
 and fall, Work in confine spaces, Work under ground, Work on or near water body,
 Collapsing Trenches, Waste collection and disposal, Demolishing structures
- **Ergonomic hazards** in PC 10.1 may include; result of physical factors that can result in musculoskeletal injuries. For example, a poor workstation setup in an office, poor posture and manual handling.
- Specified by Factories Ordinance in PC 12.1 may include; washing facilities, Sanitary conveniences, First-aid facilities, Cafeteria seating capacity, Resting facility for female workers, Accommodation for clothing, Cleanliness

Critical Aspects:

The assessment must confirm that the candidate is able to:

- Collect Accuracy of information
- Identify Hazards

The following tools, equipment and materials are included within this unit.

- Check list
- WBGT (Wet Bulb Globe Temperature) index meter
- Sound meter
- Lux meter
- Gas analyzer
- Camera
- Measuring tape
- Stationeries
- Required PPE
- Electrical Tester / multimeter

The performance of this unit is expected to be carried out to the following documents and standards

- Test certificates
- MSDS
- Factories Ordinance No 45 of 1942 as latest amendments
- Guidelines for ISO 45001: 2018 Occupational Health and Safety Management System Standards
- Standards specified by Central Environmental Authority
- Regulations specified by Ceylon Electricity Board
- Standard Operating Procedures
- ACGIH (American Conference of Governmental Industrial Hygienists) guidelines
- NFPA (National Fire Protection Association of USA),
- CHIP (Chemical Hazard Information and Packaging for Supply-2009), European CLP from 1st June 2015
- ILO guidelines
- National health guidelines

GHS / DOT / HMIS Labeling

UNDERPINNING KNOWLEDGE

- Read and understand the Workplace layout, Process flow diagram
- Understand the details /requirements in inspection plan
- Resource planning
 - Equipment
 - material, human resources and financial requirement
- Introduction in workplace inspection and collect evidence
- How to fill a check list
- · Understand the physical hazard
- · How to use of measuring instruments
- Measuring units
- Applicable standards, regulations
- Safety aspects of the machines
- · Safety requirements of Pressure vessel
- Availability of statutory test certificate
- Service lines
- Safe Operational Procedures
- Manufacturer's manuals
- Legal requirements
- Relevant sections of Factories Ordinance
- Electrical system and instruments
- Electrical hazards
 - Overload, overhead line, Insulation, earthing
- Injuries
- Read and understand IEE Standards
- Chemical hazards
- Content of chemicals
- Read and understand the Material Safety Data Sheets (MSDS)
- Read and understand conventional labels
- Relevant Safety signage
- Types of Biological hazards
 - o Bacteria
 - o Viruses
 - Insects
 - o Birds
 - Animal
 - Human
- · Biological hazards of
 - Water treatment plant
 - Cooling tower
 - Food and beverage industry
- Communicable and non-communicable diseases

UNDERPINNING SKILLS

- Handle tools and equipment safely
- Practice ergonomic parameters
- Maintain hygienic standards
- Report writing skills
- Presentation skills
- Coordination skills
- Team Work
- · Communication skills
- · Listening skills

Section 2: National Competency Standard

- Food and beverage Contamination
- Fire hazards
- Basic knowledge on active and passive fire protection system
- Flash points
- Spillage prevention
- Basic fire fighting
- Types of wastes
- pH value
- · Waste segregation and disposal methods
- Near misses
- Relevant PPE
- Protective methods
- Ergonomic hazards
- Ergonomic practices (International Labour Organization) guidelines
- Repetition movement
- Correct Use of PPE
- Pre use inspection
- Storage requirements
- Consequences due to defective PPE
- Read and understand PPE matrix
- Refer manufacturers guidelines
- welfare facilities specified by Factories

Ordinance where relevant

- washing facilities
- Sanitary conveniences
- First aid facilities
- Cafeteria seating capacity
- Over crowding
- Cleanliness
- Best Hygienic practices related to food
- Definition of stress
- Physiological changes due to stress
- Stress release exercise
- Relationship between stress and workplace accident

Worker behavior / Attitude

- Team work
- Willing to learn
- Stress tolerance
- Multi-tasking
- Good listener
- Patience
- Honesty
- Activeness
- Neatness

- Efficiency
- Flexibility
- Self confidence
- Adherence to safety regulation
- Work ethics
- Eye sight
- Responsible
- Accountability
- Creativity
- Talent
- Punctuality

Unit Title	Perform risk assessment	
Unit Descriptor		it covers the competencies required to develop/ update a ster incorporating the data found in the inspection
Unit Code	N85S01	1U02
Elements of Com	petence	Performance Criteria
Refer past re reports withingroup		 1.1 Types and frequency of accidents, incidents, dangerous occurrences and diseases are observed referring to past records and reports within the group 1.2 Types and frequency of accidents, incidents and
		disease are observed referring to past records and reports of other group of the similar organization
2. Identify Healt Safety Legal Requirement	and other	2.1 Risk is assessed based on the legal requirements2.2 Risk is assessed on the other applicable requirements
Assess risk and prepare risk assessment register		3.1 Risk matrix is followed according to the organization context 3.2 Incorporated data selection method is followed according to the risk assessment procedures
		3.3 Risk are prioritized based on the risk rating according to the risk assessment procedures 3.4 Risk are prioritized based on the risk rating according to the risk assessment procedures.
		3.4 Risk register is developed according to the risk assessment procedures

Work connected to this unit may take place at places of work such as Manufacturing, Agriculture and Plantation, Construction, Services (Hospitals/ Schools/Airports/Harbours), Tourism, Apparel, and other sectors. This work may be performed individually or as a member of a team.

Elaboration of terms in Performance Criteria

- **Past records and reports** in PC 1.1 may include; Occupational accidents, incidents, diseases, audit reports, medical checkup reports
- **Risk matrix** in PC 3.1 may include; the product of the probability that harm occurred multiplied by the severity of that harm

Critical Aspects:

The assessment must confirm that the candidate is able to;

- Ensure reliability and accuracy of information
- Develop risk matrix

The following tools, equipment and materials are included within this unit.

- Computer with accessories
- Stationaries
- Applicable interested parties requirements (Health and safety)
- Camera
- Multimedia

The performance of this unit is expected to be carried out to the following documents and standards

- Standard organizational procedure
- Risk assessment procedures
- Past accidents and incidents records
- MSDS
- Operation Manuals
- Factories Ordinance No 45 of 1942 as latest amendments
- Regulations related to Factory Ordinance
- ISO 45001:2018 Occupational Health and Management System
- American Conference of Governmental industrial Hygienist (ACGIH)
- European Union(EU)
- workplace Hazardous Material Information System
- ILO Classification of Occupational Accidents

UNDERPINNING KNOWLEDGE

- Read and understand accidents and incidents reports
- Basic Data analyzing techniques
- Factories Ordinance and regulations
- Other applicable requirement specific to the organization Different kind of risk matrix
- Different kind of risk matrix
- Risk assessment methods
- How to develop risk register
- Unsafe acts and unsafe conditions
- Near misses

UNDERPINNING SKILLS

- Identify workplace hazards
- Handle tools and equipment safely
- Practice ergonomic parameters
- Maintain hygienic standards

Worker behavior / Attitude

- Team work
- Willing to learn
- Stress tolerance
- Multi-tasking
- Good listener
- Patience
- Honesty
- Activeness
- Neatness
- Efficient
- Flexible
- Self confidence
- Adhere to safety regulation
- Work ethics
- Eye sight
- Responsible
- Accountable
- Creativity
- Talented
- Punctuality

Unit Title	Prepare hazard control work plan				
Unit Descriptor			it covers the competencies required to prepare the work implement the recommendations of the risk assessments/onducted		
Unit Code	N85S0 ²	11U03	3		
Elements of Comp	etence	Perf	ormance Criteria		
Identify and rec control measure		1.1	Controls are identified considering hierarchy of controls to reduce the risk up to as low as reasonably practicable		
		1.2	Availability of <i>risk assessment team</i> is ensured according to risk assessment procedure		
		1.3	Residual risk is reviewed with the risk assessment team		
		1.4	Identified control measures are incorporated in hazard control work plan		
2. Conduct safety committee mee		2.1	Committee members are identified and ensured the representation of all categories		
		2.2	Committee meetings are conducted on periodical basis as per organizational procedure		
		2.3	Meeting minutes are communicated to the entire work force		
		2.4	Work plan is prepared as per the hierarchy of hazard control with the consent of the committee and allocating responsibilities		
		2.5	Time frame (short term, long term) in implementing activities are developed with the consent of the committee		
		2.6	Work plan progress is followed up as per the committee decision		
3. Investigate incident	dent	3.1	Workplace incident and accident are identified and reported to the relevant management		
		3.2	Evidence are collected, recoded and protected until commence the investigation by relevant authorities		
		3.3	Investigation team is appointed with the support of administrative department or respective authorities (If needed)		

3.4	Investigation is facilitated / carried out as per the company procedures
3.5	Corrective and preventive actions of the investigation are communicated to the OHS committee
3.6	Corrective and preventive actions are incorporated in OHS plan

Competencies in this unit may be performed at places of work such as Manufacturing, Agriculture and Plantation, Construction, Services (Hospitals/ Schools/Airports/Harbours), Tourism, Apparel, and other sectors. This work may be performed individually or as a member of a team.

Elaboration of terms in Performance Criteria

• **Risk assessment team** in PC 1.2 may include; Technical expertise, relevant sectional heads, Relevant field supervisors

Critical Aspects:

The assessment must confirm that the candidate is able to:

- Incorporate of audit findings to the plan
- Maintain accuracy of minutes

The following tools, equipment and materials are included within this unit.

- Computer with accessories
- Stationaries
- Camera
- Multimedia
- Meeting room
- Calculator

The performance of this unit is expected to be carried out to the following documents and standards.

- Relevant software
- Check lists
- Audit reports
- Gantt charts
- Standard organizational procedure
- Circular on collection of water samples for analysis issued by the Ministry of Healthcare & Nutrition in 2009
- Factories Ordinance No 45 of 1942 as latest amendments
- Housing and related legislation

UNDERPINNING KNOWLEDGE

- OHS management systems
- Hierarchy of controls
- Applications of Hierarchy of controls
- Constituent of risk assessment team
- Constituent of safety committee
- Definitions of Corrective and preventive actions
- Duties and responsibilities of committee members
- Preparation of health and safety work plan

UNDERPINNING SKILLS

- Communicate for immediate actions
- Handle telephone register
- Maintain hygienic standards
- Team Work
- · Communication skills
- · Listening skills

Worker behavior / Attitude

- Team work
- Willing to learn
- Stress tolerance
- Multi-tasking
- Good listener
- Patience
- Honesty
- Activeness
- Neatness
- Efficient
- Flexible

- Self confidence
- · Adhere to safety regulation
- Work ethics
- Eye sight
- Responsible
- Accountable
- Creativity
- Talented
- Punctuality

Unit Title	Implement control measures			
potential h		covers the competencies required to control and prevent nazards identified at the audit and/or risk assessment and erformance of safety plan		
Unit Code	N85S011U	J04		
Elements of Comp	etence	Perf	ormance Criteria	
1. Interpret the plan		1.1	Content of the plan is studied	
prioritize activiti	es	1.2	Corrective and preventive actions are incorporated and ensured to OHS plan	
		1.3	Activities to be performed are identified and prioritized according to the criticality of level of the risk	
2. Identify necessa resources (huma	an,	2.1	Prioritized activities are assigned to the responsible persons with the support of safety committee	
physical, financi	al)	2.2	Physical and financial resources are allocated with the support of safety committee	
3. Mitigate chemical hazards		3.1	Proper storage conditions of chemicals , internal transportation, handling and usage of chemicals are followed as per MSDS/SDS	
		3.2	Deviations, gaps and potential accident are identified as per the MSDS/SDS	
		3.3	Corrective and <i>preventive measures</i> are taken to avoid potential chemical accidents	
		3.4	Identified corrective and preventive measures are communicated to the document controller of the organization to update Standard Operating Procedures / work instructions	
		3.5	SOP / work instructions are displayed in all three languages	
		3.6	MSDS/SDS are made available in chemical handling areas	
4. Mitigate physica	I hazards	4.1	Control measures are identified as per the hierarchy of controls	
		4.2	Implementation of control measures are ensured as per the HIRA plan	
		4.3	Availability of updated statuary and regulatory certificates are ensured	
5. Mitigate mechan	ical	5.1	Control measures are identified as per the hierarchy of	

hazards		controls
	5.2	Implementation of control measures are ensured as per the HIRA plan
	5.3	Availability of updated statuary and regulatory certificates are ensured
6. Mitigate electrical hazards	6.1	Control measures are identified as per the IEE regulations with the support of the safety committee
	6.2	Implementation of control measures are ensured as per the HIRA plan
	6.3	Availability of updated statuary and regulatory certificates are ensured
	6.4	Protecting measures are ensured according to the IEE Standards
	6.5	Identified potential and existing electrical hazards are rectified
7. Mitigate fire hazards	7.1	Control measures are identified as per the hierarchy of controls and applicable legal and other requirements
	7.2	Implementation of control measures are ensured as per the HIRA plan
	7.3	Availability of updated statuary and regulatory certificates are ensured
	7.4	Availability of fire detection and protection systems are ensured as per the fire protection plan
	7.5	Means of escapes (Emergency evacuation paths) and assembly points are ensured with appropriate signages in prominent places, unobstructed as per the standards
	7.6	Relevant legal approvals are ensured
	7.7	Fire hazards preparedness is ensured through training, fire drills, fire evacuation test, as per the fire protection plan
	7.8	Precautions are taken to avoid backfire
	7.9	Inspection and validity of fire extinguishers and other protection devices are ensured as per guidelines
8. Mitigate biological hazards	8.1	Control measures are identified as per the hierarchy of controls
	8.2	Identified potential and existing biological hazards in medical center / first aid room rectified as per the SOP
	8.3	Implementation of control measures are ensured as per

	the HIRA plan
	8.4 Availability of updated statuary and regulatory certificates are ensured
Mitigate work place environment hazards	9.1 Control measures are identified as per the hierarchy of controls
	9.2 Implementation of control measures are ensured as per the HIRA plan
	9.3 Availability of updated statuary and regulatory certificates are ensured
10. Mitigate ergonomic hazards	10.1 Control measures are identified as per the hierarchy of controls
	10.2 Implementation of control measures are ensured as per the HIRA plan
	10.3 Availability of updated statuary and regulatory certificates are ensured
11. Monitor Personal	11.1 Given PPE is ensured as per PPE matrix
Protective Equipment (PPE) practices	11.2 Employees is observed for wearing standard Personal Protective Equipment at appropriate task places
	11.3 Pre use inspection is ensured for critical PPE according to the PPE matrix
	11.4 Storage of PPE are checked as per the manufacturers guidelines
	11.5 Periodical visual inspection is conducted to check the condition of PPE
	11.6 Suitable attire/clothing for work is ensured according to the Standard Operating Procedures
12. Ensure health and welfare facilities	12.1 Utilization of health and welfare facilities are ensured by interviewing and observing
	12.2 Health and hygienic practices of the employees are ensured as per guidelines
	12.3 Food handlers' personal hygiene and safety practices are ensured
	12.4 Quality of drinking water are ensured according to the legal requirement
13. Provide first aid	13.1 Availability of item of the first aid box are ensured as per regulation of Factories Ordinance
	13.2 Availability of trained first aiders are ensured to response in case of accidents or emergency situations

	13.3 Support and guidance are provided to first aiders based on the condition and criticality of the casualty if necessary
	13.4 Transfer of casualty for further treatment to the nearest health care institute is arranged promptly
	13.5 Records are maintained in the General Register with accident details
	13.6 Communication of relevant authorities are ensured as per organizational procedure
	13.7 Administrative arrangements are made as per organizational procedure
	13.8 Follow-up action and monitoring of casualty are ensured
14. Implement Emergency	14.1 Identified possible emergencies at HIRA are studied
Preparedness and Response	14.2 Emergency procedures are ensured to control the identified possible emergencies
	14.3 Periodical drills are ensured for all possible emergencies
	14.4 Availability of emergency response team and equipment are ensured as per guidelines
15. Monitor implementation	15.1 Progress is followed up in periodically as per the plan
	15.2 Issues and delays are discussed with the safety committee
	15.3 Meeting minutes is prepared for communication among the management
	15.4 Effectiveness is evaluated and reported to the top management

Competencies in this unit may be performed in field and attached institution.

Work connected to this unit may take place at places of work such as Manufacturing, Agriculture and Plantation, Construction, Services (Hospitals/ Schools/Airports/Harbours), Tourism, Apparel, and other sectors. This work may be performed individually or as a member of a team.

Elaboration of terms in Performance Criteria

Proper storage conditions of chemicals in PC 3.1may include; store in a separate
and secure place under lock and key in the custody of authorized person only, the
location should be named, keep away from children and animal, laneling and
stacking of chemicals as per MSDS, avoid direct sunlight, expired stocks should be
discarded according to the instructions of an authorized person

- **Preventive measures** in PC 3.3 may include; Regular inspection, store pesticides in their original containers with labels intact, storage area should have a concrete floor which is impermeable and well ventilated, insulated against extremes in temperature use of approved pesticides.
- Control measures may include;
 - Engineering controls; Regular maintenance of machinery and equipment, suitable thermal insulation, electrical insulation noise absorbing material and systems
 - Administrative controls;

Job rotation, skill development, isolation of area, use of personal protective equipment, work instructions, sign board display, evacuation plan, first aid facilities, awareness training

- Substitution
 - Substitution of machines, chemicals, procedures
- Health and welfare facilities in PC 12.1 may include; washing facilities, Sanitary conveniences, First-aid facilities, Cafeteria seating capacity, Resting facility for female workers, Accommodation for clothing, Cleanliness

Critical Aspects:

The assessment must confirm that the candidate is able to:

- Coordinate the safety committee
- Ensure appropriateness of the preventive and corrective actions
- Ensure effective implementation of control measures
- Follow up Mobilization of resources
- Ensure Accuracy of information collected regarding safety, health and welfare
- Communicate effectively with risk owners (Risk owners the person who is accountable to mitigate the risk)

The following tools, equipment and materials are included within this unit.

- Physical, human and financial resources as identified in the unit
- Work plan
- Check list
- Stationary
- Camera
- Measuring and monitoring equipment (sound level meter, Lux meter, measuring gauges, Thermometer, Flow meter, etc.)
- Calculator
- Communication facilities
- Suitable mode of transport

The performance of this unit is expected to be carried out to the following documents and standards.

• Factories Ordinance – No 45 of 1942 as latest amendments

- Guidelines for ISO 45001: 2018 Occupational Health and Safety Management System Standards
- IET regulations
- Standards specified by Central Environmental Authority
- CIDA specifications/guidelines
- ISO 45001:2018 Occupational Health and Management System
- SLSI standards
- MSDS/SDS

UNDERPINNING KNOWLEDGE

- Hazard identification and Risk (HIRA) assessment plan
- How to prioritize the plan activities base on risk
- Organization structure
- Rolls and Responsibilities of each individuals in the organization
- Rolls and Responsibilities of safety officer
- Monitoring Methods and techniques
- How to establish the frequency based on level of risk
- Hierarchy of risk controls
- Preparation of Meeting minutes
- Levels of the risk mitigation
- PDCA cycle
- Root course analysis
- Corrective and Preventive Measures
- Control measures for biological hazards following sectors
 - Water and waste water treatment
 - Food and beverage industry
 - Medical and Health
- Basics of IEE regulations

UNDERPINNING SKILLS

- Handle tools and equipment safely
- Practice ergonomic parameters
- Maintain hygienic standards
- Team Work
- Communication skills
- Listening skills

Worker behavior / Attitude

- Team work
- Willing to learn
- Stress tolerance
- Multi-tasking
- Good listener
- Patience
- Honesty
- Activeness
- Neatness
- Efficient

- Flexible
- Self confidence
- Adhere to safety regulation
- Work ethics
- Eve sight
- Responsible
- Accountable
- Creativity
- Talented
- Punctuality

Unit Title	Conduct training and awareness programmes			
Unit Descriptor	This unit covers the competencies required to identified training needs of employees, develop a training plan and conduct/coordinate successfully			
Unit Code	N85S011U05			
Elements of Competence	Perf	ormance Criteria		
Identify training needs of	1.1	Training needs are identified and compiled based on OHS plan		
employees	1.2	OHS performance gaps are identified based on the OHS inspections and different organizational OHS activities		
	1.3	Human resources/ administrative department is consulted to identify the OHS training needs		
2. Develop the	2.1.	Identified training needs are incorporated in training matrix		
training plan	2.2.	Resource persons, financial and physical resources are identified with the support of Human resources / administrative department or respective authorities		
	2.3.	Training plan is prepared as per the training matrix with the support of Human resources / administrative department or respective authorities		
	2.4.	Approval of the training plan is obtained as per organizational procedure		
	2.5.	Training matrix and plan are updated periodically		
3. Conduct training	3.1	Relevant employees are informed as per organizational procedure		
	3.2	Administrative arrangements are checked and ensured according to the training plan		
	3.3	Resource persons are coordinated in advance and training aids are arranged accordingly		
	3.4	Training methodology is identified and training aids are arranged accordingly if the training conduct by safety officer		
	3.5	Delivery of the training is ensured according to training plan		
	3.6	Training records including attendants are kept for future reference		

4.	Evaluate feedback and make records	4.1	Feedback are collected as per the organizational procedures					
		4.2	Collected information are tabulated and assistance is provided to evaluate the effectiveness of the training					
		4.3	Evaluation mechanism is selected and Training gaps are identified with the support of superiors / SOP					
		4.4	Identified gaps are communicated to the relevant authorities					
		4.5	Corrective actions are proposed in consultation with relevant authorities					
		4.6	Progresses monitoring reports are submitted to the higher authorities					

Competencies in this unit may be performed in field area.

Elaboration of terms in performance criteria

 Administrative arrangements in PC 3.2 may include; Venue, Location approvals, Meals and refreshments

Critical Aspects:

The assessment must confirm that the candidate is able to:

- Identify training needs
- Prepare training plan achievable, time and cost effective
- Ensure Mode of training delivery
- Identify resource persons and barriers to learning (Language, Literacy and numeracy levels)
- Ensure effective evaluation

The following tools, equipment and materials are included within this unit.

- Training plan
- Training matrix
- Training aids as per the program to be delivered
- Communication equipment
- Computer with accessories
- E- mail internet facilities
- Relevant software
- Audio and video equipment

The performance of this unit is expected to be carried out to the following documents and standards.

• Factories Ordinance – No 45 of 1942 as latest amendments

- Guidelines for ISO 45001: 2018 Occupational Health and Safety Management System Standards
- Standard operating procedure
- Hazard analysis critical control points
- Material safety data sheets
- Training manual

UNDERPINNING KNOWLEDGE

- Training need analysis
- Training matrix
- Training delivery methods
- Organization evaluation procedures
- Development of training plan
- Preparation of training materials
- Management of financial and physical resources
- Evaluation methods

UNDERPINNING SKILLS

- Analytical skills
- · Communication skills
- Training skills
- · Report writing skills
- Presentation skills
- Coordination skills

Worker behavior / Attitude / Soft skills

- Team work
- Willing to learn
- Stress tolerance
- Multi-tasking
- Good listener
- Patience
- Honesty
- Activeness
- Neatness
- Efficient

- Flexible
- Self confidence
- Adhere to safety regulation
- Work ethics
- Eye sight
- Responsible
- Accountable
- Creativity
- Talented
- Punctuality

Un	it Title	Carryout workplace communication				
custome			it covers the competencies required to communicate with ers and co-workers clearly and politely face to face, over ne, and in writing			
Un	it Code	N85S01	1BU01			
Е	lements of Comp	oetence	Performance Criteria			
1.	Apply verbal communication at work place		1.1 Verbal communication methods and media are used to gather and convey information			
			1.2 Gathered information are transferred to the relevant level of the organization			
			1.3 Instructions and enquiries are responded promptly in accordance with current organisational requirements			
2.	2. Apply non-verbal communication		2.1 Non-verbal communication methods and media are used to follows accepted industry practice or social convention			
			2.2 Unclear or ambiguous <i>visual communication</i> is clarified by questioning			
3.	3. Apply written communication and signage		3.1 Written communication methods and media are used in clear and concise language			
			3.2 Communication of intended meaning is ensured and clarified by questioning			
			3.3 Work place documentation and correspondence are interpreted to understand their intended meaning			
			3.4 Required workplace documentation are communicated and recorded according to organizational requirement in timely			
4.	Respond positi individual differ	-	4.1 Cultural, ethnic, language and gender differences are taken into consideration in all verbal and non-verbal communication			
			4.2 All individuals are treated with privacy (if necessary), respect, courtesy and sensitively			

The work connected to this unit may take place in a workplace or workshop. Communication will include verbal, non-verbal, written, printed and electronic forms.

Elaboration of terms in performance criteria

• **Verbal Communication methods and media** in PC 1.1 & 1.2 may include: phone calls, video chats, and face-to-face conversation.

- **Non-verbal communication methods and media** in PC 2.1 may include: Nonverbal communication strategies such as body language, signs, and symbols
- *Visual communication:* in PC 2.2 may include: information education and communication (IEC) material, posters, videos
- Written communication methods and media in PC 3.1 may include: emails, letters, forms, records, drawings, schedules, checklists, manuals

Critical aspects

The assessment must confirm that the candidate is able to;

- obtain and record accurate information from customer/superior/co-workers
- · convey information to relevant parties accurately
- record information confidentiality

The following tools, equipment & material are included within this unit

- Stationeries
- Relevant communication devises submitted by organization management
- Computer with internet facilities
- Charts
- Memos
- Formats & Forms (Time Record sheets, Quality record sheets and material order sheets)
- Standard Organizational Procedures, accepted ethical standards and norms

Required Knowledge, Skills and Worker behavior/Attitude/Soft skills

UNDERPINNING KNOWLEDGE

Communication methods and media

- Industry terminology
- Industry relevant reporting procedures
- Forms of address appropriate to customers and staff
- Industry-relevant technology to support communication
- Basic knowledge of new trends
- Telephone etiquettes
- Presentation techniques
- General norms of polite conduct
- Customs of different ethnic and religious groups
- Basic understanding of gender issues
- Showing respect to persons
- Gender issues relevant to the communication
- General Ethics

UNDERPINNING SKILLS

- Verbal and non-verbal communication skills
- Visual Communication Skills
- Written Communication Skills
- Literacy skills to identify work requirements, and to understand and process basic workplace documentation.
- Use industry terminology
- Use of modern technology for better communication
- Good telephone etiquettes
- Presentation skills

Unit Title:	Apply Workplace Literacy and Numeracy				
Unit Descriptor:	This unit covers the competencies required to read and understand relevant documents				
Unit Code:	N85S011BU02				
Elements Of Competence	Performance Criteria				
Identify literacy and numeracy demands of the workplace	1.1 Literacy requirements of workplace tasks, related documents and procedures are identified				
	1.2 Numeracy requirements of workplace tasks, documents and procedures are identified				
2. Apply a range of skills that support workplace	2.1 Identified literacy requirements are applied to workplace as and when required				
literacy and numeracy	2.2 Identified numeracy requirements are applied to workplace as and when required				

The work connected to this unit may take place in a workplace / workshop.

Elaboration of terms in performance criteria

- Literacy requirements of workplace in PC 1.1 may include:
 - Mother language and English
 - reading skills to understand written information, such as signs, work instructions, policies, procedures, legislation, specifications, checklists and reports
 - writing skills to complete or produce written texts, such as emails, checklists, work record sheets, safety or risk assessment, reports and SMS
- *Numeracy requirements of workplace* in PC 1.2 may include:
 - add, subtract, multiply and divide
 - locate information in tables, use numbers, read various scales and gauges, use calculations (such as determine weight of load, quantity)
 - measure, plan time, read and interpret tables and diagrams
 - read and interpret maps
 - record and interpret data, such as forms and checklists.

Critical Aspects:

The assessment must confirm that the candidate is able to;

- interpret written material accurately
- · convey ideas clearly and correctly in writing
- adopt appropriate method in mathematical calculations

The following tools, equipment & material are included within this unit.

Tools/ instruments and equipment

Materials(Documents/References/Standards)

- Stationeries
- Calculator
- · Computer with internet facility
- Charts
- Manuals
- Memos
- Forms (Time Record sheets, Quality record sheets, Colour codes and material order sheets)
- Accepted rules of grammar and syntax
- Fundamental principles of mathematics

Required Knowledge, Skills and Worker behavior/Attitude/Soft skills

Underpinning Knowledge

- Literacy requirements of workplace
- Numeracy requirements of workplace
- Features of literacy and numeracy
- Literacy and numeracy demands of everyday workplace tasks, documents and procedures
- Benefits of literacy and numeracy skill development in the workplace

Underpinning Skills

- Learning skills to identify the broad literacy and numeracy skills that underpin workplace tasks
- Reading skills to read routine workplace documents
- Planning and organising skills to apply strategies to support workplace literacy and numeracy
- Self-management skills to apply strategies to support workplace literacy and numeracy

Unit Title	Work in teams					
Unit Descriptor	This unit covers the competencies required to work cooperatively with people identifying roles & responsibilities within team.					
Unit Code	N85S011BU03					
Elements of Comp	petence	Performance Criteria				
Communicate with team members		 1.1 Effective Communication strategies are followed preventing misunderstanding & giving consideration to gender & culture 1.2 Information & ideas are shared with team members to enhance work outcome 				
Participate in team work activities		2.1 Individual tasks are listed out according to the work plan.				
		2.2 Individual tasks are carried out as a team leader				
		2.3 Other team members are encouraged and supported in undertaking required roles and responsibilities				

The performance of activities included in this unit may take place in a workplace / workshop.

Elaboration of terms in performance criteria

- Effective Communication strategies in PC 1.1 may include:
 - Active listening, questioning, observing, giving feedback, empathy
- Team include: Employees, Health and safety committee members/ representatives, Department heads, Supervisory staff, Head of the organization, Medical staff and other service providers

Critical aspects

The assessment must confirm that the candidate is;

- Achieve team goals
- Follow designated work plan for the job

The following tools, equipment & material are included within this unit.

 Depending on the job assigned to the team for the purpose of assessing this unit, required tools, equipment and material will be provided.

The performance of this unit is expected to be carried out to the following documents and standards

- Work plans
- Manuals

- Handbooks
- General rules and norms guiding team behaviour

Required Knowledge, Skills and Worker behavior/Attitude/Soft skills

UNDERPINNING KNOWLEDGE

UNDERPINNING SKILLS

- Concepts of team behaviour
- Elementary group dynamics
- Basic knowledge in social and demographic structures
- Knowledge of organization standard procedures and work instructions and relevant regulatory requirements.
- Leadership skills
- Encouraging team members
- Following instructions
- Demonstrating interpersonal skills
- Listening
- communication skills
- Providing suggestions and information
- Reporting information
- Contributing to achieve main objective of the team

COMPETENCY BASED TRAINING CURRICULUM For OCCUPATIONAL HEALTH AND SAFETY OFFICER NVQ LEVEL 04

(Competency Standards Code: N85S011)

Curr	iculum Modules	Module Code No.	Duration (Hours) Theory Practical		Page No.
1.	Principals of health and safety management systems and legal compliances	N85S011M01	12	52	35
2.	OHS training and Evaluation	N85S011M02	12	48	36
3.	Hazards identification	N85S011M03	18	42	37
4.	Risk Assessment	N85S011M04	12	18	39
5.	Managing safety / Safety Controls	N85S011M05	18	54	40
6.	Occupational health and First Aid	N85S011M06	06	48	41
7.	Fire safety, rescue and emergency response	N85S011M07	12	54	42
8.	Incidents & Accidents investigation and root cause analysis	N85S011M08	12	84	43
9.	Workplace general safety hazards	N85S011M09	24	124	44
10.	Safety inspections and workplace monitoring	N85S011M10	12	52	45
11.	Record keeping and documentation	N85S011M11	06	72	46
12.	Communication Skills for Workplace	N85S011BM01	06	06	47
13.	Language Literacy and Numeracy	N85S011BM02	18		48
14.	Team Work	N85S011BM03	12		59
		Total Duration	180	654	
		Sub Total	8	34	

OCCUPATIONAL HEALTH AND SAFETY OFFICER - COMPETENCY PROFILE

Competency Area

Tasks

A.	Identify Hazard in a Work place	A1. Inspect work place	A2. Identify Physical hazard	A3. Identify Mechanical/ Electrical hazard	A4. Use measuring equipment	A5. Identify Chemical hazards	A6. Identify Biological hazard
		A7. Identify psychosocial hazards	A8. Identify Fire hazard	A9. Identify workplace general safety	A10. Ensure ergonomic Practices	Evaluate work place for health hazard	A11. Ensure Use of PPE
		A12. Ensure welfare facilities	A13. Prepare reports				
В.	Perform risk assessments	B1. Refer past records	B2. Identify the accidents	B3. Identify the incidents	B4. Identify dangerous occurrences	B5. Identify the occupational diseases	B6. Obtain information from the Industrial safety division
		B7. Ensure the status of records	B8. Assess risk	B9. Develop risk assessment register			

Section 3: Competency Based Training curriculum

C.	Prepare hazard control work Plan	C1. Identify major non conformities	C2. Keep findings depending on need of short term and long-term solutions	C3. Identify Long term non conformities	C4. Formulate Strategies of safety committees	C5. Identify resources needed to accomplish the OHS plan	C6. Organize Safety committee meetings and obtain approvals if required
		C7. Prioritize and implement Activities					
D.	Implement Control measures	D1. Prioritize planned activities	D2. Identify resources	D3. Monitor activity implementation	D4. Control chemical hazards	D5. Control physical hazards	D6. Control environmental hazards
		D7. Teach good ergonomic practices	D8. Train the workers on use of PPE	D9. Check and keep the welfare facilities clean	D10. Ensure machine guards and safe electrical equipment	D11. Provide first aid when required	D12. Implement stress management techniques
		D13. Ensure cleanliness of canteen	D14. Impleme nt food safety measures				
Е.	Conduct training and awareness programs	E1. Identify training needs	E2. Conduct training	E3. Evaluate the feedback	E4. Monitor the training outcome by behavioural changers		

Programme Structure

Competency Area			Module	Competencies	Т	ime
		No.	Title		Instit	utional
					Theory	Practical
		BM01	Communication Skills for Workplace		06	06
		BM02	Language Literacy and Numeracy		18	
		BM03	Team Work		12	
		N85S011M01	Principals of health and safety management systems and legal		12	52
		N85S011M11	compliances Record keeping and documentation		06	72
Α	Identify hazard in the	N85S011M03	Hazards identification	A1, A2, A3, A4,	18	42
	workplace	N85S011M06	Occupational health and First Aid	A5,A6,A7,A8,A9	06	48
D	Implement control measures	N85S011M07	Fire safety, rescue and emergency	A10,A11,A12	12	54
			response	D1,D2,D3,D4,D5,		
		N85S011M09	Work environment hazards	D6,	24	124
		N85S011M10	Safety inspections and workplace	D7,D8,D9,D10,	12	52
			monitoring	D11,D12,D13,D14		
В		N85S011M04	Risk Assessment	B1, B2, B3, B4,	12	18
				B5, B6, B7, B8,		
	Perform risk assessment			В9		
С	Prepare hazard control work	N85S011M05	Managing safety / Safety Controls	C1, C2,	18	54
	plan	N85S011M08	Incidents & Accidents investigation	C3,C4,C5,C6, C7	12	84
	-		and root cause analysis			
Е	Conduct training and	N85S011M02	OHS training and Evaluation	E1,E2,E3,E4	12	48
	awareness programmes					
				Total	180	654
				Sub Total	8	334

Qualification Mapping Sheet

Qualification Code	Relevant Competency Unit	Relevant Curriculum Modules	Relevant Tasks
N85S011Q1L4	N85S011U01+N85S011U02+	N85S011M01+N85S011M02+	A1, A2, A3, A4,
	N85S011U03+N85S011U04+	N85S011M03+N85S011M04+	A5,A6,A7,A8,A9
	N85S011U05+ BU01+BU02+	N85S011M05+N85S011M06+	A10,A11,A12,
	BU03	N85S011M07+N85S011M08+	A13
		N85S011M09+N85S011M10+ N85S011M11+BM01+BM02+ BM03	B1, B2, B3, B4, B5, B6, B7, B8, B9 C1, C2,C3,C4,C5, C6,C7 D1,D2,D3,D4,D5, D6, D7, D8, D9, D10,D11, D12, D13,D14 E1,E2,E3,E4

Module Title	Principals of health and safety management systems and legal		
M 1 1 0 1	compliances		
Module Code	N85S011M01		
Duration (Hrs)	64hr (12T + 52P)		
Learning Outcomes	After completion of this module trainee will be able to; - Describe OHS Management Systems		
Outcomes	- Describe Legal compliances		
	- Describe Legal compilarities		
Learning Content	Theory		
	 Introduction to OHS Management Systems (OHSMS) What is Health and Safety and its importance PDCA Cycle International management systems (ISO 45001:2018) Principals of health and safety management systems and 		
	 Legal compliances Introduction to Factory Ordinance Sections covered in FO (Part I, Part III, Part IIV, Part V) All Regulations coming under FO Sanitary conveniences Dangerous occurrence Washing facilities General lighting Meal rooms Pressure vessels Boilers/steam receivers Air receivers Gas receivers Industrial deceases Protection of eyes First aid Registration of factories Noise 		
	 Introduction to Legal requirements of PPE & Product Standards SLSI / ANSI / NIOSH / EN / BS / EU / ACGIH, etc. 		
	Practical:		
	List out the legal requirements related to own working place and		
	evaluate current compliance		
	Class room Assessment - 10MCQ		
Teaching-	Lectures		
Learning	Group discussion		
activities	Brainstorming sessions		
	Tutorials		
	Individual assignment		
	Practical		
Assessment weightage	Formative Assessment - 60% Summative Assessment - 40%		

Module Title	OHS training and Evaluation	
Module Code	N85S011M02	
Duration (Hrs)	60 hr (12T + 48P)	
Learning Outcomes	After completion of this module trainee will be able to; - Plan OHS training sessions	
	- Conduct OHS training sessions	
	- Evaluate training sessions	
Learning Content	Theory:	
	 Introduction to OHS Training Understanding organization structures Duties and Responsibilities of key individuals of organization (CEO/GM/Eng Head/Operation Head etc.) Duties and Responsibilities of safety officer Introduction to Training Matrix and Training Plan OHS related Communication Conducting OHS training Objectives of the OHS training Different types of OHS Trainings Pre requirements of training Basic knowledge on resource planning and allocation Tool Box Talks Induction Training Training Evaluation and feed back How to conduct feedback session How to organize an effective training session 	
Teaching- Learning activities	 Practical: Students are divided into groups and will be given different tool box topic to prepare tool box talk. One member will present Develop a training matrix for a selected organization and submit a report on effective OHS Communication Lectures Group discussion Brainstorming sessions 	
	 Tutorials Individual assignment Practical 	
Assessment weightage	Formative Assessment - 60% Summative Assessment - 40%	

Module Title	Hazards identification
Module Title	N85S011M03
Duration (Hrs)	60hr (18T + 42P)
Learning Outcomes	After completion of this module trainee will be able to; - Identify mechanical, chemical, biological, electrical hazards
Outcomes	
	- Identify Ergonomic/Stress
	- Describe Hazard Identification Techniques
Learning Content	Theory:
	Hazard Identification Techniques O Hazard definitions O Types of hazards O Methods of Hazard identification

	 Chemical hazards Introduction in Chemical hazards Properties of chemicals Read and understand the Material Safety Data Sheets (MSDS)/GHS / DOT / NFPA / HMIS Labeling Handling chemicals
	 Handling chemicals smell, odour, itching, tearing, difficulties in breathing, vomiting or any other discomfort, improper storage, spillage of chemicals and non-availability of Material Safety Data Sheets (MSDS) and conventional labels Biological hazards Introduction in Biological hazards Types of Biological hazards Bacteria Viruses Fungus Parasites Insects Birds Animal Human Biological hazards of Water treatment plant Cooling tower Food and beverage contamination Communicable and non-communicable diseases Ergonomic/Stress hazards Introduction in Ergonomic hazards Ergonomic practices in industry and office environment Repetitive movement Basics of Stress Management
	Provided
	 Practical: Students will be assigned to submit an Individual Hazard Identification Report for selected industry Site visit
Teaching- Learning activities	 Lectures Group discussion Brainstorming sessions Tutorials Individual assignment Practical
Assessment weightage	Formative Assessment - 60% Summative Assessment - 40%

Module Title	Risk Assessment		
Module Code	N85S011M04		
Duration (Hrs)	30 hr (12T + 18P)		
Learning Outcomes	After completion of this module trainee will be able to; - Identify hazards		
	- Evaluate the risk		
Learning Content	Theory: Risk Assessments Methods Definition of Risk Difference between Hazard and Risk Different kind of risk matrix Risk assessment methods How to develop Risk register/Hazards Identification and Risk Assessment (HIRA) Plan		
	O Different methods of risk prioritizing How to prioritize the plan activities based on risk Practical:		
	 Identify Hazard, Assess Risk and Prepare a risk matrix for given video/Slide presentation Site visit 		
Teaching- Learning activities	 Lectures Group discussion Brainstorming sessions Tutorials Individual assignment Practical 		
Assessment weightage	Formative Assessment - 60% Summative Assessment -40%		

Module Title	Managing safety / Safety Controls		
Module Code	N85S011M05		
Duration (Hrs)	72 hr (18T + 54P)		
Learning	After completion of this module trainee will be able to;		
Outcomes	- Prepare risk matrix		
	- Plan for counter measures		
	Theory		
	Theory:		
	Hierarchy of risk controls		
	Levels of the risk mitigation		
	 Selection Control Measures based on type of hazards 		
	 Different types of control measures for, 		
	 Physical Hazard & Examples 		
	Mechanical Hazards & Examples		
	Electrical Hazards & Examples Character & Examples		
	 Chemical Hazards & Examples Ergonomically Hazards & Examples 		
	 Ergonomically Hazards & Examples Biological hazards 		
	Water and waste water treatment		
	 Food and beverage contamination 		
	 Best Hygienic practices related to food 		
	 Best practices of food handlers 		
	 Medical and Health 		
	 Personal Protective Equipment Correct Use of PPE 		
	Decrees in an extinu		
	Pre use inspectionStorage requirements		
	 Consequences due to defective PPE 		
	Read and understand PPE matrix		
	 Refer manufacturers guidelines 		
	 Different types of PPE with respect to task 		
	 How to prepare a PPE matrix 		
	 Impotence of correct usage of PPE 		
	Proper Storage of PPE How to conduct Drawes in an action / Boxindical in an action		
	 How to conduct Pre use inspection / Periodical inspection 		
	 Disposal methods of PPE 		
	Relevant Safety signage related to hazards		
	Practical:		
	Submit individual report based on the HIRA with suitable control		
	measures		
	 Assigned to conduct risk assessment during the field visit and present 		
	summery.		
	Field visit		
	MCQ paper		
Teaching- • Lectures / Group discussion			
Learning	Brainstorming sessions		
activities	Tutorials, Individual assignment, Practical		
Assessment	Formative Assessment - 70%		
weightage Summative Assessment – 30%			
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Module Title	Occupational health and First Aid
Module Code	N85S011M06
Duration (Hrs)	54 (06T + 48P)
Learning	After completion of this module trainee will be able to;
Outcomes	- Describe legal requirements
	- Demonstrate first aid techniques
Learning Content	Theory:
	 Legal requirements in First Aid First aid kit General Register First aid regulations First aid techniques First aid tools and equipment Handling and transport Casualty CPR Occupational hygiene practices
Teaching-	Practical: Practical demonstration with a dummy Demonstrate on casualty handling – Groupwork Classroom Assessment - 10MCQ Lectures
Learning	Group discussion
activities	Brainstorming sessions
	Tutorials
	Individual assignment
Accoment	
Assessment weightage	Formative Assessment - 60% Summative Assessment - 40%

Module Title	Fire safety, rescue and emergency response		
Module Code	N85S011M07		
Duration (Hrs)	66 (12T + 54P)		
Learning Outcomes	After completion of this module trainee will be able to;		
	- Identify fire hazards		
	- Prepare counter measure		
	- Apply fire-fighting techniques		
Learning Content	Theory:		
	Principles of fire and Explosions		
	 Fire Triangle 		
	 Stages of fire 		
	Heating and ignition		
	Flash PointFire Classification		
	Classes of Fire		
	 Types of Fire Extinguishers 		
	Causes and Prevention of Fires and Explosions		
	Causes of fires		
	 Control measures to minimize fire risk 		
	 Hot Work Permits System 		
	 Heat/spark generation due to welding, cutting, 		
	grinding, Soldering, abrasion and friction		
	Basic knowledge on Fire Protection in Buildings (active and		
	passive fire protection system)		
	 Different types of detectors and fire alarms Water sprinkler systems 		
	vvater sprinkler systems Fire hose reel systems		
	 Fire hydrant system 		
	 Fire suppression systems 		
	Basic knowledge on firefighting and role of Fire teams		
	Basic knowledge on Grounding / earthing of components		
	 Fire due to static particles 		
	Fire Evacuation procedures, rescue methods and		
	emergency preparedness methods		
	Assembly points Fire Signages		
	 Fire Signages Examples of best practices to control fire hazards 		
	Legal requirements related to fire hazards		
	Local Authorities		
	 Factories Ordinance / CIDA guidelines 		
	 Means of escape/ exits in case of fire 		
	 Safety Provisions in case of fire 		
	Practical:		
	Select an organization and compile all the approvals and		
	requirements related to the industry		
	Conduct and demonstrate fire Drill using Fire Hydrant/ Hose Totals / fire systings in hose		
	reels/ fire extinguishes		
Toaching Loarning	MCQ Paper Loctures Croup discussion Projectorming assessors Tutorials		
Teaching-Learning activities	Lectures, Group discussion, Brainstorming sessions, Tutorials Lectures, Group discussion, Brainstorming sessions, Tutorials		
activities	Individual assignment, Practical		
Assessment weightage	Formative Assessment - 40%		
	Summative Assessment - 60%		
L			

Module Title	Incidents & Accidents investigation and root cause analysis		
Module Code	N85S011M08		
Duration (Hrs)	96hr (12T + 84P)		
Learning	After completion of this module trainee will be able to;		
Outcomes	- Describe the type of accident		
	- Conduct accident investigation		
	- Report accident and incident		
Learning Content	TheoryReporting Accidents and IncidentsTypes of Accidents		
	 Accident record keeping 		
	 Reporting Near misses 		
	 Accidents and incidents Reports 		
	Incidents & Accidents investigation		
	Basic Data analyzing techniques Root cause analysis		
	Accident Investigation Report familiarization		
	Methods of compensation		
	Practical: Identify three past accidents and conduct a root cause analysis for selected one accident Submit an accident investigation report		
Teaching-	Lectures		
Learning	Group discussion		
activities	Brainstorming sessionsTutorials		
	Individual assignment		
	Practical		
Assessment weightage	Formative Assessment 60% Summative Assessment 40%		

Module Title	Workplace general safety hazards		
Module Code	N85S011M09		
Duration (Hrs)	148 (24T + 124P)		
Learning Outcomes	After completion of this module trainee will be able to; - Identify the hazard related to work environment - Propose suitable control measures to the identified hazards		
Learning Content	N85S011M09 148 (24T + 124P) After completion of this module trainee will be able to;		
Teaching- Learning activities			
Assessment weightage	Formative Assessment – 60% Summative Assessment – 40%		

Module Title	Safety inspections and workplace monitoring		
Module Code	N85S011M10		
Duration (Hrs)	64hr (12T + 52P)		
Learning	After completion of this module trainee will be able to;		
Outcomes	- Conduct safety inspection		
	- Conduct safety committee meeting		
	- Conduct progress review meeting		
Learning Content	Theory:		
	Introductions to Safety Inspection Difference between Audit and Inspection		
	Difference between Audit and Inspection		
	Safety Check Lists		
	Safety Committee		
	Constituent of safety committee		
	Duties and responsibilities of committee members		
	Preparation of health and safety workplan		
	How to select the safety committee members		
	Objectives of safety committee / committee meeting		
	How to conduct the effective committee meeting		
	Introduction to progress review meeting		
	Agenda for progress review		
	o OHS KPIs		
	 Structure of the meeting minutes and reporting / communication 		
	Practical:		
	Group Activity: General Activity:		
	 Conduct an OHS committee meeting appointing members Record meeting minutes and present to the audience. 		
	 Record meeting minutes and present to the audience. Individual Assignment: 		
	Prepare an induction presentation for new safety committee		
	member		
Teaching-	Lectures		
Learning	Group discussion		
activities	Brainstorming sessions		
	Tutorials		
	Individual assignment		
	Practical		
Assessment	Formative Assessment 60%		
weightage	Summative Assessment 40%		

Module Title	Record keeping and documentation		
Module Code	N85S011M11		
Duration (Hrs)	78 (06T + 72P)		
Learning Outcomes	After completion of this module trainee will be able to; Understand the OHS Management System/Quality Management System and its elements. Understand Importance of Operation control procedure and how to incorporate the safety critical parameters. Understand the medical center operation and essential documents.		
Learning Content	Theory:		
	 Health and Safety Manual and related documents OHS Policy ' OHS Procedures Operational Control Procedure (SOP) OHS Documents and Data Recording Document control Procedure Documentations at Medical Center Documentations related to legal requirements Accident notification General register Statutory test certificate Bi-annual reports Other applicable documents (EPL/ Local authority approvals, Building approvals, etc.) Quality Management Techniques (5S, KIZEN) 		
	 Practical: Group Work: Refer OHS Manual of an organization and identify the important procedures and Documents. Individual Assignment: Study about the legal requirement related to 		
	the organization and prepare a summary report		
Teaching- Learning activities	 Lectures Group discussion Brainstorming sessions Tutorials Individual assignment Practical 		
Assessment weightage	Formative Assessment 60% Summative Assessment 40%		

Module Title	Communication Skills for Workplace		
Module Code	N85S011BM01		
Module Type	Core module		
Duration (Hrs.)	12 Hours		
Learning	After completion of this module the trainee will be able to:		
Outcomes	Communicate ideas and information at the workplace effectively		
Learning	Theory		
Content	 Active listening (paying close attention to what the other person is saying, asking clarifying questions, and rephrasing what the person says to ensure understanding) Verbal and nonverbal communication Follow instructions from supervisors and other relevant persons Understand, interpret and applied information as required Sharing work related information with other team members using industry terminology Range of forms and formats related to work Presentation techniques and methods Duration-06 hrs		
	Practical /Assignment: Role plays and dramas Assignments Prepare a list of 250-300 technical/vocational terms in English used in OHS Collect manufactures' safety guidelines/work instructions operation manuals related in OHS, prepare a file and interpret the information		
Totalia	Duration-06 hrs		
Teaching-	Illustrated talk		
Learning activities	Demonstrations		
activities	• Video		
	Presentation		
Forms of assessment	Formative Assessment + Summative Assessment		

Module Title	Language Literacy and Numeracy		
Module Code	N85S011BM02		
Module Type	Core Module		
Duration (Hrs.)	18 Hours		
Learning	After completion of this module trainees will be able to;		
Outcomes	 use the language to accomplish purposes and get things done. use words and ways of speaking appropriate for different situations. interact with other people appropriately. understand the messages. 		
Learning Content	Theory:		
	 Literacy requirements of working area (English and Tamil) Numeracy requirements of working area (- Safety KPI calculations - Basic statistics calculations (Mean, Median, Probability) - Graphical presentation Features of literacy and numeracy Benefits of literacy and numeracy skill development in the working area (Duration: 18 hours) Practical: - Assignment 01: Write a paragraph consisting of 350 words describing the method of Message Dissemination System (Duration: -) 		
Teaching-	Illustrated Talks		
Learning	Assignments		
activities	 Presentations 		
	Demonstrations		
Forms of assessment	Formative Assessment + Summative Assessment		

Module Title	Team Work			
Module Code	N85S011BM03			
Duration (Hrs)	12 Hours			
Module Type	Basic Module			
Learning Outcomes	At the end of this module student should be able to;			
Learning Content	 Contribute positively to the work in team environment Work effectively with others in a socially diverse environment Respect and understand the views of others Give, receive and act upon feedback Identify and describe own roles and roles of others Theory			
Learning Content	Simple concepts of team behavior			
	Elementary group dynamics			
	Basic knowledge in social and demographic structures			
	Duration-06 hrs			
	Practical			
	 Identify and establish team purpose, team member's roles 			
	and responsibilities for given activities.			
	Coach and motivate team.			
	 Assignments 			
	 Form a fire fighting team and conduct a rehearsal and give the feedback on challenges 			
	 Arrange a risk assessment session and give the feedback on group effort 			
	Duration-06 hrs			
Teaching-Learning	Lecturers			
activities	Role plays			
	Case studies			
	Team building activities			
	Coaching and mentoring			
Forms of assessment	Formative Assessment + Summative Assessment			

Assessment Guide:

Forms of assessment

Assessment shall be based on evidence collected through workplace performance or a combination of evidence collected through training and workplace performance.

Assessment context

This unit may be assessed on the job, off the job or a combination of on and off the job. These units may be assessed individually.

Assessment conditions

The candidate will be provided with all equipment, material and documentation required as outlined in each unit.

The candidate will be permitted to refer the following documents;

- Relevant workplace procedures
- Relevant product manufacturer's instructions
- Relevant manuals, standards & reference materials

The candidate will be required to;

- orally or by other methods of communication, answer questions asked by the assessor.
- identify superiors who can be approached for the collection of competency evidence where appropriate.
- present evidence of credit for any off job training related to this unit.

The assessor must be satisfied that the candidate can competently and consistently perform all elements of the unit as specified by the criteria and that he / she possesses the required underpinning knowledge.

Special notes

During assessment, the candidate will;

- demonstrate safe work practices at all times.
- communicate information about processes, events or tasks being undertaken to ensure a safe and efficient working environment.
- perform all tasks in accordance with standard operating procedures.
- perform all tasks to specifications
- take responsibility for the accuracy of his/her own work
- use accepted methods for calculation.

Tasks involved will be completed within reasonable time frames relating to typical workplace activities.

Resources required for assessment

These include material, tools and equipment listed within each uni

The following tools, equipment and materials are required for a training program (Approximately 15 students)

No	Item	Quantity
1.	Check list	15
2.	WBGT (Wet Bulb Globe Temperature) index meter	1
3.	Sound meter	1
4.	Lux meter	1
5.	Gas analyzer	1
6.	Camera	1
7.	Measuring tape	1
8.	Required PPE demonstration kit	1
9.	Electrical Tester / multimeter	1
10.	Computer with accessories for a trainer	1
11.	Communication equipment	1
12.	Relevant software	1
13.	Audio and video equipment	1

NATIONAL COMPETENCY STANDARDS AND COMPETENCY BASED TRAINING CURRICULUM FOR OCCUPATIONAL HEALTH AND SAFETY OFFICER (Code:N85S011)

NATIONAL CERTIFICATE AT NVQ LEVEL 4 IN THE OCCUPATION OF OCCUPATIONAL HEALTH AND SAFETY OFFICER

1.	Endorsement date	: 07.07.2021	2.Date for review:07.07.2024	
3.	Purpose of the Qualification	To certify that the holder of this qualification has acquired the competencies contained in the units listed in section 6 below.		
4.	Regulations for the Qualification	The holder should have been assessed by a licensed assessor and found competent in the units listed in section 6 and certified by the TVEC		
5.	Qualification Code & Packages	N85S011Q1L4 (Occupational Health And Safety Officer) - N85S011U01+N85S011U02+ N85S01103+ N85S011U04+ N85S011U05+ BU1+ BU2+ BU3		
6.	Prerequisite	Minimum qualification for the learning content is sat for GCE O/L		
7.	Accreditation requirement	The qualifications shall be offered in compliance with the accreditation requirements of the TVEC as stipulated in the National Vocational Qualifications framework of Sri Lanka.		
8.	Certification	TVEC shall certify the qualifications in terms of the regulation at section 6 above.		
9.	Transition arrangements	The competency based assessments shall be undertaken by the registered assessors until TVEC arranges to issue licenses to the assessors		
10	. Requirement of Conducting Knowledge Assessment	Required		
11	. Contact for comments	Chairman, National Apprentice & Industrial Training Authority, 971, Sri Jayawardanapura Mawatha, Welikada, Rajagiriya Director General, Tertiary & Vocational Education Commission, "Nipunatha Piyasa", 354/2, Elvitigala Mawatha, Colombo 05.		