OPERATE MATERIAL HANDLING EQUIPMENT

UNIT CODE: ENG/OS/IPO/CR/O5/4/A

UNIT DESCRIPTION

This unit describes competencies required to operate material handling equipment. It involves apply industrial material handling equipment safety procedures, identifying industrial MHE for particular use and MHE system components, running and monitoring industrial material handling equipment, performing industrial material handling equipment basic maintenance and generating industrial MHE system operation reports.

Element	Performance Criteria	
These describe the key	These are assessable statements which specify the required level of	
outcomes which make up	performance for each of the elements.	
workplace function	Bold and italicized terms are elaborated in the Range	
1. Apply Industrial	1.1 Prescribed personal safety gear is worn as per rules and	
Material Handling	regulations of the Occupational Safety and Health Act	
Equipment Safety	(OSHA)	
Procedures	1.2 Safety measures for the operation of the hydraulic systems	
	are applied as per the rules and regulations of the	
	Occupational Safety and Health Act (OSHA)	
	1.3 Work environment safety rules and regulations are observed	
	as per the Occupational Safety Act	
	1.4 Potential, workplace employee and equipment hazards,	
	and their <i>risk</i> control measures are identified as per OSHA	
	to ensure the safety of personnel and equipment	
2. Identify Industrial	2.1 To be competent, the user/individual on the job must be able	
MHE For Particular	to	
Use and MHE System	2.2 Identify different Types of material handling equipment	
Components	2.3 Appropriate material handling equipment for conveying	
	particular material are selected	
	2.4 Parts of material handling equipment are identified	

ELEMENTS AND PERFORMANCE CRITERIA

Element These describe the key outcomes which make up workplace function 3. Run and Monitor Industrial Material Handling Equipment	 Performance Criteria These are assessable statements which specify the required level of performance for each of the elements. Bold and italicized terms are elaborated in the Range 3.1 Tools and equipment for the operation of pneumatic systems are identified 3.2 Material handling equipment is tested as per SOPs 3.3 Material handling equipment is operated as per the SOPs 3.4 Material handling equipment in monitored for proper functionality and daily check chart updated
4. Perform Industrial Material Handling Equipment Basic Maintenance	 4.1 Basic Maintenance requirements are identified according to SOPs 4.2 Lubrication of parts is carried out as per SOPs 4.3 Periodic checks of parts is conducted as per SOPs
5. Generate Industrial MHE System Operation Reports	5.1 Equipment faults and/or incidents as applicable are reported in a timely manner5.2 Daily check charts and logs are updated

RANGE

This section provides work environments and conditions to which the performance criteria apply. It allows for different work environments and situations that will affect performance.

Variable	Range
• Types of Material Handling Equipment	Hand tools and equipment
may include but not limited to	Hand tracks
	• Dolly
	Flat Belt Conveyor
	Troughed Belt Conveyor
	• Slat belt
	Vibrating screeners
	Chute Conveyor
	Chain Conveyor
	Bucket Elevators
	Screw Conveyor
	• Pallet truck and Pallet Jacks

Variable	Range
	Walkie Stackers
	Gantry Cranes
	Fork Lifts
	Mobile Cranes
• <i>Material</i> may include but not limited to	Loose material
	Packaged material
	Palletized material
• <i>Tests</i> may include but not limited to	Visual inspection
	Audio inspection
	• Test run
Correct Operational Response may	Capacity rating
include but not limited to	• Type of material
	Conveyor speed
	• Operating environment
• Abnormalities may include but not limited	Wobbling belts/Chains
to	 Slackened belt/chain
	Vibrations
×*	Defective lifting equipment
Appropriate Personnel may include but	Maintenance personnel
not limited to	• Supervisors and managers
	• Operators
	Off-loaders
	• Suppliers
	Colleagues
• <i>Appropriate Authority</i> may include but not limited to	• International and local regulations
• <i>Documentation</i> may include but not	• Test certificates and reports
limited to	Manufacturers documentation
• <i>PPE</i> may include but not limited to	• Hand and forearm protection, such as
	gloves
	• Eye protection
	• Steel-toed safety shoes or boots
	• Metal, fiber, or plastic metatarsal
	guards
	• Ear muffs and Nose masks
• <i>Hazards</i> may include but not limited to	• Falling objects

Variable	Range
	Improperly stacked materials
	• Twisting and turning
	• Bending
	• Strains and sprains from lifting loads
	improperly
	• Fractures and bruises caused by being
	struck by materials
	• Cuts and bruises caused by falling
	materials
	Inhalations risks
	• Sight impairment

REQUIRED KNOWLEDGE AND UNDERSTANDING

This section describes the skills and knowledge required for this unit of competency.

Required Skills

- Relevant environmental, occupational health and safety legislation and regulations
- Personal protective equipment (PPE) and safety equipment.
- Types of material handling equipment
- Parts and accessories of material handling equipment
- Assess potential hazards.
- Uses documentation.
- Completes daily equipment logbook.
- Communicate effectively
- Basic First aid

Required Skills

The trainee needs to demonstrate the following fundamental skills

- Communication skills
- Numeracy skills
- Digital literacy skills

- Environmental Literacy
- Employability skills
- Entrepreneurship skills

• Occupational health safety and Practices

EVIDENCE GUIDE

This provides advice on assessment and must be read in conjunction with the performance criteria, required skills and knowledge and range.

1. Critical Aspects of	1.1 Observed safety at workplace and sound housekeeping	
Competency	1.2 Identified different types of material handling equipment	
	1.3 Identified components and attachments of material handling	
	equipment	
	1.4 Selected and correctly use material handling equipment	
	1.5 Operated and monitored the equipment	
	1.6 Conducted basic First Aid and Emergency evacuation	
2. Resource Implications	2.1 Different types of material handling equipment	
	2.2 Material handling simulation	
	2.3 Relevant legislations, e.g. OSHA, Environmental Act; and	
	regulations	
	2.4 Workshop tools and equipment	
	2.5 Material handling equipment manuals	
3. Methods of Assessment	Competency may be assessed through:	
	3.1 Observed behavior of the learners at workplace	
	3.2 Inspection of written operation procedures	
	3.3 Inspection of log books	
4. Context of Assessment	Competency will be assessed individually in the actual workplace	
	or through accredited institution	
5. Guidance information for	Holistic assessment of other units relevant to the industry sector,	
Assessment	workplace and job role is recommended	