



Republic of Rwanda
Ministry of Education



RTB | RWANDA
TVET BOARD

PWOHS301

PUBLIC WORK HYGIENE AND SAFETY PRECAUTIONS

Apply Public Work Hygiene and Safety Precautions

Competence

RQF Level: 3

Learning Hours



Credits: 3

Sector: Construction and Building Services

Trade: Public Works

Module Type: General

Curriculum: CBSPWO3001- TVET Certificate III in Public Works

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Issue Date: May,2022

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Purpose statement	This module describes the skills, knowledge and attitude required to Apply Hygiene and Safety Precautions in Public Works. It is intended for level III learners in public works or applying for recognition of prior learning or other related qualifications. At the end of this module, learners will be able to maintain personal hygiene, identify construction public works hazards and emergencies at workplace and maintain construction public works tools and equipment. Qualified learners deemed competent to this competency shall have ability to take responsibility for the carrying out of a range of defined activities in Public works under minimum directive supervision.					
Learning assumed to be in place	Safety, Health and environment at workplace					
Delivery modality	Training delivery		100%	Assessment		Total 100%
	Theoretical content		70%	Formative assessment	70%	100%
	Practical work:		30%		30%	
	• Group project and presentation	20%				
	• Individual project /Work	10%				

Elements of Competency and Performance Criteria

Elements of competency	Performance criteria
1. Maintain personal hygiene at workplace	1.1. Personal Hygiene is properly applied according to the public works standards.
	1.2. Working place sanitation practices are properly respected to ensure that there is no hazard which can cause accident.
	1.3. Personal Protective equipment is used appropriately during the work.
2. Identify construction public works hazards and emergencies at Workplace	2.1. Public works hazards and emergencies are properly identified at workplace.
	2.2. Public works hazards and emergencies are controlled appropriately at work area.
	2.3. Measures are properly respected to avoid hazards.
3. Maintain construction public works tools and equipment	3.1. Materials, tools and equipment are properly identified to be used in plant cleaning according to the specification.
	3.2. Cleaning methods are properly identified according to cleaning specification.
	3.3. Waste is appropriately dumped according to Environmental Impact Assessment
	3.4. Lubrication is safely Applied for plant maintenance

Course content

1. Learning outcomes	At the end of the module the learner will be able to: <ol style="list-style-type: none"> 1. Maintain personal hygiene at workplace 2. Identify construction public works hazards and emergencies at Workplace 3. Maintain construction public works instruments
Learning outcome 1: Maintain personal hygiene at workplace	Learning hours: 5

Indicative content

(Based on the performance criteria and the extent of learning outcome: what, up to, how)

- **Apply personal hygiene**
 - ✓ Health and hygiene concept
 - ✓ Personal hygiene rules
- **Sanitation practices at workplace** (Refer to RS 187; RS ISO 45001; RS 175; RS EAS 1020; RS ISO 20347; RS EAS 914; RS EAS 132; RS 182)
 - ✓ Cleaning site facilities
 - ✓ Solid wastes management
 - ✓ Wastewater and rainwater Control
 - ✓ Types of contamination

 - ✓ Ways of preventing contamination
- **Use Personal Protective equipment**
 - ✓ Identification of PPE
 - ✓ Use of PPE
 - ✓ Maintenance of PPE

Resources required for the learning outcome

Equipment	<ul style="list-style-type: none"> • PPE kit • Computer • Projector • Fire extinguisher • Hoes • Pickaxe • Spades
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	<ul style="list-style-type: none"> • Shovel • Corns • First aid kit
Materials	<ul style="list-style-type: none"> • Papers • Pens • Pencils • Rubbers • Warning tape • Marker pen • Flip chart • Sign posts • Potable water • Paint • Books • Groom
Tools	<ul style="list-style-type: none"> • Handsaw • Screwing driver • Tape measure • Hammers • Step leader • toolbox
Facilitation techniques	<ul style="list-style-type: none"> • Presentations • Demonstration and simulation • Individual and group work • Practical exercise • Individualized • Trainer guided • Group discussion
Formative assessment methods	<ul style="list-style-type: none"> • Written assessment, Oral presentation, Performance assessment, Project based assessment

Learning outcome 2: Identify construction public works hazards and emergencies at Workplace	Learning hours: 10
Indicative content	
(Based on the performance criteria and the extent of learning outcome: what, up to, how)	
<ul style="list-style-type: none"> • Identification of public works hazards and emergencies (Refer to RS ISO 45001; RS 354; RS 175; RS EAS 188; RS EAS 1020; RS ISO 20347; RS EAS 914; RS EAS 132) <ul style="list-style-type: none"> ✓ Types of hazards in the workplace 	

- ✓ Characteristics of emergency control
- ✓ Different warning time for emergencies
- ✓ Different phases of an emergency
- ✓ Actions related to different time and phases of an emergency
- **Controlling public works Hazards and emergencies**
 - ✓ Steps in Hierarchy of Hazards
 - ✓ Action taken in emergency situation
- **Implementation of safety measures**
 - ✓ Use clear signage throughout the site
 - ✓ Styles of addressing specific problems

Resources required for the indicative content

Equipment	<ul style="list-style-type: none"> • PPE kit, Computer, projector, fire extinguisher, ambulance
Materials	<ul style="list-style-type: none"> • Nails, papers, pens, pencils, rubbers, pegs, warning tape, marker pen, flip chart, sign posts, potable water, paint, books
Tools	<ul style="list-style-type: none"> • Corns • Hammers • First aid kit • Hoes • Pickaxe • Spades • Shovel
Facilitation techniques	<ul style="list-style-type: none"> • Lectures • Demonstration and simulation • Individual and group work • Practical exercise • Individualized • Trainer guided • Group discussion
Formative assessment methods	<ul style="list-style-type: none"> • Written assessment • Oral presentation • Performance assessment • Product based assessment • Project based assessment

Learning outcome 3:
Maintain construction public works instruments

Learning hours: 15

Indicative content

(Based on the performance criteria and the extent of learning outcome: what, up to, how)

- **Identification of Materials, tools and equipment** (Refer to RS ISO 1247; ISO 45001; RS 354; RS 175; RS EAS 188; RS EAS 1020; RS ISO 20347; RS EAS 914; RS EAS 132)
 - ✓ Selection of materials
 - ✓ Selection of tools
 - ✓ Selection of equipment
- **Cleaning methods**
 - ✓ Workplace cleaning methods
 - ✓ Tools and equipment cleaning
- **Waste dumping**
 - ✓ Identify Wastes types
 - ✓ Waste dumping methods
- **Plant cooling and lubrication**
 - ✓ Key concepts of lubrication
 - ✓ Key concepts of Plant cooling
 - ✓ Identification of lubricants
 - ✓ Oiling and greasing
 - ✓ Plant cooling methods

Resources required for the indicative content

Equipment	<ul style="list-style-type: none"> • PPE kit, Computer, Projector, Fire extinguisher, Ambulance
Materials	<ul style="list-style-type: none"> • Nails, papers, pens, pencils, rubbers, pegs, warning tape, marker pen, flip chart, sign posts, potable water, paint, books
Tools	<ul style="list-style-type: none"> • Corns hammers, first aid kit, hoes, pickaxe, spades, shovel
Facilitation techniques	<ul style="list-style-type: none"> • Demonstration and simulation, individual and group wok, practical exercise, individualized, trainer guided, group discussion
Formative assessment methods	<ul style="list-style-type: none"> • Written assessment ,oral presentation, performance assessment, product based assessment, project based assessment

References:

1. The calibration of survey equipment, prepared by hugo c engler a.l.s., april 2012
2. Safety manual - Division of Plats and Survey, Maryland State Highway Administration
3. Public health in disasters and emergencies, see: Goma Epidemiology Group(1995), Perrin (1996), Médecins sans Frontières (1997a), International Federa-tion of Red Cross and Red Crescent Societies (2000), International Federation ofRed Cross and Red Crescent Societies, Johns Hopkins University (2000)
4. Work Readiness Training Programme-Trainer’s Manual, AkaziKanoze-Youth Livelihoods Project.
5. Mike Sondalini (2016),Industrial Plant Maintenance and Plant Engineering Handbook, Industrial Press Inc.,U.S.
6. John H. and Lorri C. (2009), Maximize your plant maintenance with SAP, Galileo Press Inc., Boston
7. <https://library.e.abb.com/public/73015852f038f362c125759e00357c93/plant%20maintenance%20guide.pdf>
8. <https://www.neste.com/companies/products/lubricants/basic-consepts-lubricants>
9. RS 187: Rain water harvesting systems — Code of practice;
10. RS ISO 45001: Occupational Health and Safety Management system— Requirements;
11. RS 175: Wheelbarrow specifications;
12. RS EAS 188: Machete — Specification;
13. RS EAS 1020: Shovels and spades — Specification;
14. RS ISO 20347: Personal protective equipment — Occupational footwear;
15. RS EAS 914: Mild steel nails — Specification;
16. RS EAS 132: Hoe — Specification;
17. RS 182: Solid waste disposal sites, guidelines for design — Code of practice
18. RS 354: Occupational health and safety for non-food industrial workers — Facility requirements;
19. RS ISO 1247: Aluminium pigments for paints — Specification