



# Federal Democratic Republic of Ethiopia OCCUPATIONAL STANDARD

# RUBBER TREE LATEX HARVESTING & PROCESSING MANAGEMENT

## **NTQF** Level V



#### Introduction

Ethiopia has embarked on a process of reforming its TVET-System. Within the policies and strategies of the Ethiopian Government, technology transformation – by using international standards and international best practices as the basis, and, adopting, adapting and verifying them in the Ethiopian context – is a pivotal element. TVET is given an important role with regard to technology transfer. The new paradigm in the outcome-based TVET system is the orientation at the current and anticipated future demand of the economy and the labor market.

The Ethiopian Occupational Standards (EOS) is the core element of the Ethiopian National TVET-Strategy and an important factor within the context of the National TVET-Qualification Framework (NTQF). They are national Ethiopian standards, which define the occupational requirements and expected outcome related to a specific occupation without taking TVET delivery into account.

This document details the mandatory format, sequencing, wording and layout for the Ethiopia Occupational Standard which comprised of Units of Competence.

A Unit Title describes a distinct work activity. It is documented in a standard format that comprises:

- Occupational title and NTQF level
- Unit title
- Unit code
- Unit descriptor
- Elements and Performance criteria
- Variables and Range
- Evidence guide

Together all the parts of a Unit Title guide the assessor in determining whether the candidate is competent.

The ensuing sections of this EOS document comprise a description of the occupation with all the key components of a Unit Title:

- chart with an overview of all Units of Competence for the respective level including the Unit Codes and the Unit Titles
- contents of each Unit Title(competence standard)
- occupational map providing the Technical and Vocational Education and Training (TVET) providers with information and important requirements to consider when designing training programs for this standards and for the individual, a career path

Page 1 of 78	Ministry of Education Copyright	Rubber Tree Latex Harvesting & Processing Management Ethiopian Occupational Standard	Version 1 June 2016
--------------	------------------------------------	--	------------------------

#### UNIT OF COMPETENCE CHART

## Occupational Standard: Rubber Tree Latex Harvesting & Processing Management Occupational Code: IND RLM

### NTQF level V

#### IND LPM5 01 0616

Plan and Monitor Production Processes

#### IND LPM5 02 0616

Develop and Implement Sustainable Land Use Strategies

#### IND LPM5 03 0616

Develop and Manage a Chemical Use Strategy

#### IND LPM5 04 0616

Develop Climatic Risk Management Strategies

#### IND LPM5 05 0616

Develop a Whole Farm Plan

#### IND LPM5 06 0616

Plan and Manage Stored Rubber Seed and Grain

#### IND LPM5 07 0616

Plan and Manage Stored Dry Rubber Sheet

#### IND LPM5 08 0616

Plan and Manage Long-Term Weed, Pest and/or Disease Control

#### IND LPM5 09 0616

Manage People's Performance and Relationship

#### IND LPM5 10 0616

Evaluate and Select Materials and Processes

#### IND LPM5 11 0616

Prepare and Monitor Budgets and Financial Reports

#### IND LPM5 12 0616

Manage Trial and/or Research Material

#### IND LPM5 13 0616

Monitor and Review Business Performance

#### IND LPM5 14 0616

Manage Project Quality

#### IND LPM5 15 0616

Facilitate and Capitalize on Change and Innovation

#### IND LPM5 16 0616

Manage Continuous Improvement Process (Kaizen)

Occupational Standard	nal Standard: Rubber Tree Latex Harvesting & Processing Management Level V	
Unit Title	Plan and Monitor Production Processes	
Unit Code	<u>IND LPM5 01 0616</u>	
Unit Descriptor	This competency standard covers the process of assessing land requirements and improving the land under production. It includes the requirements to apply a range of sustainable growing practices according to the enterprise codes of practice and conduct, and consistent with legislate on. When achieved, the work in this standard leads to the long-term economic viability of land under production. Plan and monitor production process use is likely to be under limited supervision from others, with checking only related to overall progress. It is usually done within routines, methods and procedures where some discretion and judgment is required in the selection of equipment and materials, organization of work, services, actions, and the achievement of outcomes within budgetary constraints.	

Elements	Performance Criteria
Plan and monitor production processes	1.1 Plan and monitor production processes are identified and accepted where possible.
processes	1.2 Legislative and regulatory requirements and imperatives are identified and adhered to throughout the conduct of operations.
	1.3 Specific requirements for plan and monitor are identified from the organizations production and management plans.
<ol><li>Prepare plan and monitor to improve production</li></ol>	2.1 Plan and monitor are inspected and measured, key features noted, and pegs or markers are placed as appropriate for the improvement required.
	2.2 OHS hazards are identified and appeased, and responsible action is taken throughout the preparation process.
	2.3 Materials required for the construction of the <i>improvement(s)</i> are calculated from the plans, observations and discussions with colleagues.
	2.4 Materials, personnel and <i>equipment</i> are obtained and organized to be on site at the appropriate times.
	2.5 Equipment to be used is checked and calibrated, if necessary, prior to commencement & Improve land use.

Page 3 of 78	Ministry of Education Copyright	Rubber Tree Latex Harvesting & Processing Management Ethiopian Occupational Standard	Version 1 June 2016
--------------	------------------------------------	--	------------------------

	2.6 Suitable personal protective equipment is selected, used and maintained.
	2.7 OHS hazards are identified, risks assessed, and suitable controls are implemented.
	2.8 <b>Soil structure</b> and balance is corrected according to the results of the <b>soil samples</b> tests.
	2.9 Organizational chemical application procedures and processes are reviewed to reduce contamination of soils, ground water & <i>Soil conservation</i> measures are implemented.
3. Complete operations	3.1 Equipment is <i>cleaned</i> in accordance with manufacturer's specifications, organizational procedures and regulations.
	3.2 Attachments and other ancillary equipment are cleaned and stored to minimize damage and maximize hygiene according to manufacturer's specifications, organizational procedures and regulations.
	3.3 All containers, leftover fluids, waste and debris from the maintenance and servicing work are disposed of safely and appropriately.
	3.4 All required records and <b>documentation</b> are completed accurately and promptly in accordance with organizational requirements.

Variables	Range
Improvement(s)	May include:
	The need for improvement may be caused by rising water
	tables
	wind eroded areas
	saline areas
	weed infestations
	unstable soils
	<ul> <li>Poorly drained areas or shelter requirements.</li> </ul>
Equipment	May include:
	Boots
	hat/hard hat
	Overalls
	Gloves
	protective eyewear
	hearing protection
	respirator or face mask
	<ul> <li>and sun protection (sun hat, sun screen).</li> </ul>

Page 4 of 78	Ministry of Education Copyright	Rubber Tree Latex Harvesting & Processing Management Ethiopian Occupational Standard	Version 1 June 2016	
--------------	------------------------------------	--	------------------------	--

Soil structure	May include:
	<ul> <li>Such practices as green cane harvesting, trash retention,</li> <li>minimum/zero tillage, green manure crops, spray out fallow fields to leave subterranean roots and organic surface cover, and maintaining vegetation cover as long as possible. Spray out rations or sown crops during the fallow period.</li> </ul>
Soil samples	May include:
	The range of actions are both systemic and at an approximately level.
	<ul><li>operational level.</li><li>Systems should be in place to ensure the safe operation</li></ul>
	and maintenance of machinery and equipment.
	Precautions should also be in place to minimize exposure
	to noise, and organic and other dusts.
	<ul> <li>Fixtures should be in place in all silos and storage sheds, including appropriate access ladders, hand rails and ladder cages.</li> </ul>
	<ul> <li>Personal protective equipment should be selected, used and maintained.</li> </ul>
	Environmental conditions should be controlled. For example, keeping moisture levels as low as possible will reduce the likelihood of fire.
	<ul> <li>Procedures should be in place and used for working on harvesters, working with Seed mass movement and stability, working within confined working spaces, moving vehicles, and working at height.</li> </ul>
	<ul> <li>Recordkeeping should ensure that requirements in relation to properly observing and using product labels and MSDS sheets, instruction manuals and written organizational procedures.</li> </ul>
Soil conservation	May include:
	The preparation of grassed waterways
	<ul><li>construction of contour banks at specific sites</li><li>maintenance of contour banks and waterways</li></ul>
	<ul> <li>and stabilizing and re-vegetating land by planting</li> </ul>
	grasses/trees where soil erosion has taken place.
	There may also be the use of dams
	banks and drains, waterways
	land clearing, land rehabilitation     water pending schemes
	<ul><li>water ponding schemes</li><li>water ponding banks</li></ul>
	<ul> <li>Sand owing completed areas on banks.</li> </ul>
	Carrying out irrigation practices to ensure crop needs aremet, by matching irrigation inputs with soil water

Page 5 of 78	Ministry of Education Copyright	Rubber Tree Latex Harvesting & Processing Management Ethiopian Occupational Standard	Version 1 June 2016
--------------	------------------------------------	--	------------------------

	holding capacity to minimize excess applications that may result in rising water tables, leaching of nutrients or excessive run-off.
Cleaning	<ul> <li>May include:</li> <li>Detrimental environmental impacts may result from excessive noise and exhaust emissions, the incorrect use and disposal of maintenance debris (oils containers, chemical residues), and hazardous substances (fuel).</li> <li>Impacts may also include run-off flows of water and cleaning agents from servicing, maintenance and cleaning activities.</li> </ul>
Documentation	<ul> <li>May include:</li> <li>Paper-based or digital</li> <li>Information will be recorded into logbooks or other records.</li> </ul>
Equipment required for land improvements	<ul> <li>May include:</li> <li>Vehicles might include tractors</li> <li>Trucks and four-wheel drive vehicles.</li> <li>Ploughs</li> <li>cultivators,</li> <li>Scarifies</li> <li>fertilizer spreaders</li> <li>spraying equipment</li> <li>mulchers or rakes.</li> </ul>
Natural features	May include: <ul><li>Natural features include hills</li><li>Depressions and waterways.</li></ul>

Evidence Guide		
Critical Aspects of Competence	<ul> <li>A candidate must be able to demonstrate the ability to:</li> <li>Perform operations within the guidelines for sustainable land use.</li> <li>Describe sustainable land and water use principles and practices applicable in the region</li> <li>Identify and apply environmental controls and codes of practice applicable to the business and to the improvement works</li> </ul>	

Page 6 of 78	Ministry of Education Copyright	Rubber Tree Latex Harvesting & Processing Management Ethiopian Occupational Standard	Version 1 June 2016
--------------	------------------------------------	--	------------------------

Underpinning	Demonstrate knowledge of:
Knowledge and	tree planting techniques
Attitudes	sustainable land and water use principles and practices applicable in the region
	environmental controls and codes of practice applicable to the business and to the improvement works
	the whole farm plan
	<ul> <li>relevant legislation and regulations relating to soil and water degradation issues and chemical use, building construction, and relevant OHS legislation, regulations and codes of practice:</li> </ul>
Underpinning Skills	Demonstrates skills to:
	use communication systems
	assess requirements for
	prevent land degradation improved land use
	<ul> <li>complete pre- and post-operational checks on tools and equipment</li> </ul>
	<ul> <li>perform routine safety, service and maintenance procedures on tools and equipment</li> </ul>
	read and interpret manufacturers specifications, work and
	maintenance plans, and material safety data sheets
	<ul> <li>interpret and apply task instructions, communicate with work team</li> </ul>
	<ul> <li>and supervisor, and record and report faults, workplace hazards and accidents</li> </ul>
	communication of ideas and information by preparing and amending plans that may be implemented by other people
	collect, analyze and organize information in assessing the land and interpreting plans for what should be done
	<ul> <li>plan and organize activities in working with others to</li> </ul>
	improve land use according to prepared plans
	calculate and calibrate equipment and measuring quantities
Resource Implications	Access is required to real or appropriately simulated situations, including work areas, materials and equipment, and to information on workplace practices and OHS
Methods of Assessment	practices.
WELLIOUS OF ASSESSITIEFIL	Competence may be assessed through:  Interview / Written Test
	Observation / Demonstration with Oral Questioning
Context of Assessment	Competence may be assessed in the work place or in a
Contoxt of Accoding	simulated work place setting.

Page 7 of 78	Ministry of Education Copyright	Rubber Tree Latex Harvesting & Processing Management Ethiopian Occupational Standard	Version 1 June 2016
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Occupational Standard	Rubber Tree Latex Harvesting & Processing Management Level V
Unit Title	Develop and Implement Sustainable Land Use Strategies
Unit Code	IND LPM5 02 0616
Unit Descriptor	This competency standard covers the process of assessing land requirements and improving the land under production. It includes the requirements to apply a range of sustainable growing practices according to the industry's codes of practice and conduct, and consistent with legislate on. When achieved, the work in this standard leads to the long-term economic viability of land under production. Implementing sustainable land use is likely to be under limited supervision from others, with checking only related to overall progress. It is usually done within routines, methods and procedures where some discretion and judgment is required in the selection of equipment and materials, organization of work, services, actions, and the achievement of outcomes within budgetary constraints.

Elements	Performance Criteria
Assess requirements for improved land use	1.1 Potential sources of additional requirement are identified and accepted where possible.
	1.2 Legislative and regulatory requirements and imperatives are identified and adhered to throughout the conduct of operations.
	1.3 Specific requirements for <i>improvement</i> are identified from the organizations production and management plans.
	1.4 <b>Soil samples</b> are taken according to the requirements of the organizations production and management plans.
	<ol> <li>Plans and reports are annotated as required in preparation for action.</li> </ol>
2.Prepare to improve land use	2.1 Sites are inspected and measured, key features noted, and pegs or markers are placed as appropriate for the improvement required.
	2.2 OHS hazards are identified and appeased, and responsible action is taken throughout the preparation process.
	Materials required for the construction of the improvement(s) are calculated from the plans, observations and discussions with colleagues.

Page 9 of 78	Ministry of Education Copyright	Rubber Tree Latex Harvesting & Processing Management Ethiopian Occupational Standard	Version 1 June 2016
--------------	------------------------------------	--	------------------------

			erials, personnel and equipment are obtainized to be on site at the appropriate tile	
		•	ipment to be used is checked and calibressary, prior to commencement Improve	
			able <i>personal protective equipment</i> is d and maintained	s selected,
			S hazards are identified, risks assessed rols are implemented.	, and suitable
			structure and balance is corrected accords of the soil tests.	cording to the
		proc	anizational chemical application proced esses are reviewed to reduce contamir ground water.	
		2.10 <b>So</b>	<i>il conservation</i> measures are impleme	nted
3.Prevent land degradation			able personal protective equipment is somaintained.	elected, used
			S hazards are identified, risks assessed rols are implemented.	, and suitable
			ces or boundaries are realigned to land conservation works.	classes and
		3.4 Con	tour banks are protected and repaired a	as necessary.
		3.5 Wat	er carrying structures are repaired as no	ecessary.
			e, other vegetation and shelter belts are crop and stock protection.	established
			cultivation and planting practices are re ended to prevent erosion and minimize s	
		times	mical applications are planned using a when maximum uptake and minimum chieved.	
			ipment needed for chemical application serviced to maintain optimum working o	
4.Complete operations		spec	ipment is <i>cleaned</i> in accordance with m cifications, organizational procedures ar llations.	
		and acco	chments and other ancillary equipment stored to minimize damage and maximording to manufacturer's specifications, sedures and regulations.	ize hygiene
Page 10 of 78	Ministry of E Copyr		Rubber Tree Latex Harvesting & Processing Management Ethiopian Occupational Standard	Version 1 June 2016

4.3 All containers, leftover fluids, waste and debris from the maintenance and servicing work are disposed of safely and appropriately.
4.4 All required records and <i>documentation</i> are completed accurately and promptly in accordance with organizational requirements.

Variables	Range
Improvement	May include:
	rising water tables
	wind eroded areas
	saline areas
	weed infestations
	unstable soils
	<ul> <li>poorly drained areas or shelter requirements.</li> </ul>
	<ul> <li>vehicles might include tractors, trucks and four-wheel drive vehicles.</li> </ul>
	<ul> <li>equipment might be mounted or trailing and may include ploughs cultivators</li> </ul>
	• scarifiers
	fertilizer spreaders
	spraying equipment
	mulchers or rakes.
Soil samples	May include:
·	It may be tested for pH
	Salinity
	texture or nutrient status
OHS	May include:
	<ul> <li>The range of actions are both systemic and at an operational level.</li> </ul>
	<ul> <li>Systems should be in place to ensure the safe operation and maintenance of machinery and equipment.</li> </ul>
	<ul> <li>Precautions should also be in place to minimize exposure to noise, and organic and other dusts.</li> </ul>
	<ul> <li>Fixtures should be in place in all silos and storage sheds, including appropriate access ladders, hand rails and ladder cages.</li> </ul>
	<ul> <li>Personal protective equipment should be selected, used and maintained.</li> </ul>
	<ul> <li>Environmental conditions should be controlled. For example, keeping moisture levels as low as possible will reduce the likelihood of fire.</li> </ul>

Page 11 of 78	Ministry of Education Copyright	Rubber Tree Latex Harvesting & Processing Management Ethiopian Occupational Standard	Version 1 June 2016
---------------	------------------------------------	--	------------------------

Personal prote equipment	h s v • F re a o ctive May • B	Procedures should be in place and used for working on larvesters, working with Seed mass movement and stability, working within confined working spaces, moving rehicles, and working at height. Recordkeeping should ensure that requirements in relation to properly observing and using product labels and MSDS sheets, instruction manuals and written organizational procedures. Include; Roots, hat/hard hat, overalls, gloves, protective eyewear, rearing protection, respirator or face mask, and sun protection (sun hat, sun screen).
Soil structure	May  Solution  fa  solution	include; Such practices as green cane harvesting, trash retention, ninimum/zero tillage, green manure crops, spray out allow fields to leave subterranean roots and organic surface cover, and maintaining vegetation cover as long as possible. Spray out ratoons or sown crops during the allow period.
Soil conservation	• T c b la ta a w o o ir	The preparation of grassed waterways, construction of contour banks at specific sites, maintenance of contour banks and waterways, and stabilizing and re-vegetating and by planting grasses/trees where soil erosion has aken place. There may also be the use of dams, banks and drains, waterways, land clearing, land rehabilitation, water ponding schemes, water ponding banks, sand owing completed areas on banks. Carrying out irrigation practices to ensure crop needs are net, by matching irrigation inputs with soil water holding capacity to minimize excess applications that may result in rising water tables, leaching of nutrients or excessive un-off.
tł o		include the availability of the fertilizer and amendments, physical and chemical characteristics, and the suitability entilizer and amendments to the type of soil, climate, crop field topography.
Cleaning	May • D e a c • Ir	include: Detrimental environmental impacts may result from excessive noise and exhaust emissions, the incorrect use and disposal of maintenance debris (oils containers, chemical residues), and hazardous substances (fuel). Impacts may also include run-off flows of water and cleaning agents from servicing, maintenance and cleaning activities.
Page 12 of 78	Ministry of Educat Copyright	tion Rubber Tree Latex Harvesting & Processing Version 1 Management June 2016

Documentation	May include record keeping systems used may be either paper-based or digital, and information will be recorded into
	logbooks or other records.

Evidence Guide	
Critical Aspects of Competence	<ul> <li>A candidate must be able to demonstrate the ability to:</li> <li>Perform operations within the guidelines for sustainable land use.</li> <li>Describe sustainable land and water use principles and practices applicable in the region</li> <li>Identify and apply environmental controls and codes of practice applicable to the business and to the improvement works</li> </ul>
Underpinning Knowledge and Attitudes	<ul> <li>tree planting techniques</li> <li>sustainable land and water use principles and practices applicable in the region</li> <li>environmental controls and codes of practice applicable to the business and to the improvement works</li> <li>the whole farm plan</li> <li>relevant legislation and regulations relating to soil and water degradation issues and chemical use, building construction, and relevant OHS legislation, regulations and codes of practice</li> </ul>
Underpinning Skills	<ul> <li>Skills include the ability to:</li> <li>use communication systems</li> <li>assess requirements for</li> <li>prevent land degradation improved land use</li> <li>complete pre- and post-operational checks on tools and equipment</li> <li>perform routine safety, service and maintenance procedures on tools and equipment</li> <li>read and interpret manufacturers specifications, work and</li> <li>maintenance plans, and material safety data sheets</li> <li>interpret and apply task instructions, communicate with work team and supervisor, and record and report faults, workplace hazards and accidents</li> <li>communication of ideas and information by preparing and amending plans that may be implemented by other people</li> <li>collect, analyze and organize information in assessing the land and interpreting plans for what should be done</li> <li>plan and organize activities in working with others to improve land use according to prepared plans</li> </ul>

Page 13 of 78 Ministry of Education Copyright	Rubber Tree Latex Harvesting & Processing  Management  Ethiopian Occupational Standard	Version 1 June 2016
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	<ul> <li>calculate and calibrate equipment and measuring quantities</li> </ul>
Resource Implications	Access is required to real or appropriately simulated situations, including work areas, materials and equipment, and to information on workplace practices and OHS practices.
Methods of Assessment	<ul> <li>Competence may be assessed through:</li> <li>Interview / Written Test</li> <li>Observation / Demonstration with Oral Questioning</li> </ul>
Context of Assessment	Competence may be assessed in the work place or in a simulated work place setting.

Occupational Standard: Rubber Tree Latex Harvesting & Processing Management Level V		
Unit Title	Develop and Manage a Chemical Use Strategy	
Unit Code	IND LPM5 03 0616	
Unit Descriptor	This competency standard covers the process of developing, Implementing and managing a chemical use strategy. High level skills include risk analysis, risk control; risk management, use of Integrated Pest Management, Integrated Resistance Management, Animal Health Management and communication are required. Extensive knowledge of equipment and its use, legislation, regulations and safety procedures associated with chemical use is also needed	

Elements	Performance Criteria
Identify and evaluate need for chemical use	1.1 Integrated Pest Management (IPM) and Integrated Resistance Management (IRM) strategies are interpreted and the organizational chemical requirements are identified.
	1.2 <b>External requirements</b> for chemical use are identified and relevant information obtained and interpreted.
	1.3 Requirements for chemical use are documented.
	1.4 Chemicals available to meet requirements are identified and information concerning their application is reviewed.
2. Develop a chemical	2.1 Hazards in the transportation, storage and handling of chemicals are identified and assessed.
use risk management strategy	2.2 <b>Risk factors</b> associated with the use of chemicals are identified and documented.
	2.3 <b>Risk control measures</b> are identified and developed in accordance with regulatory requirements.
	2.4A risk management strategy for chemical use is developed in accordance with <i>legislation and regulations</i> Integrated Pest Management, Integrated Resistance Management, and Integrated Animal Health Management principles.
	2.5 Appropriate insurance policies covering intended chemical use are researched and documented according to enterprise guidelines.
Develop and implement procedures	3.1 <b>Procedures</b> for management and use of chemicals are developed in accordance with <b>directions and standards</b> .

Page 15 of 78	Ministry of Education Copyright	Rubber Tree Latex Harvesting & Processing Management Ethiopian Occupational Standard	Version 1 June 2016	
---------------	------------------------------------	--	------------------------	--

	3.2 Required precautions and risk control measures are documented.
	3.3 Procedures for communicating and negotiating with the community are developed.
	3.4 Information on procedures and precautions in the management and use of chemicals is distributed to relevant staff.
4. Identify training and supervision needs and solutions for chemical use in the workplace	4.1 An appropriate strategy is developed for the <i>training</i> , <i>assessment</i> and supervision of staff involved in chemical use including correct use/fit of personal protective equipment.
	4.2 Suitable internal on-the-job training and monitoring of performance in the implementation of the chemical use strategy is organized and provided.
	4.3 Appropriate external training and assessment in the management and use of chemicals is organized.
5. Monitor and evaluate the implementation of a chemical use strategy	5.1 The implementation of the established chemical use strategy is monitored in terms of regulatory requirements and established <i>criteria</i> .
	5.2The effectiveness of the established chemical use strategy is evaluated.
	5.3 Appropriate action is initiated where there are identified problems or where required procedures/precautions are not being correctly followed.

Variables	Range	
External requirements	May include:	
	Chemical use regulations and legislation, best practice	
	systems, mandatory Codes of Practice, chemical	
	<ul> <li>manufacturer's instructions, labels and Material Safety</li> </ul>	
	Data Sheets (MSDS).	
Risks factors	May include:	
	pollution of ground or surface waters	
	Damage to habitats, damage to sensitive land, or	
	damage to community amenity due to spray drift.	
	Risks associated with the produce include chemical	
	residue in plant produces, livestock or water.	
	Risks associated with OHS include exposure to	
	chemicals during handling and application, and public	
	health risks.	

Page 16 of 78	Ministry of Education Copyright	Rubber Tree Latex Harvesting & Processing Management Ethiopian Occupational Standard	Version 1 June 2016
---------------	------------------------------------	--	------------------------

Risk control measures	May include providing instructions for handling, transport, storage, obtaining appropriate insurance policies, application and disposal of chemicals in the workplace, ensuring workers read and follow instructions on product label and MSDS, ensuring use, maintenance and storage of correct personal protective equipment, training and accreditation of all staff using chemicals, and ensuring all staff using a chemical understand the specific risks involved and the associated precautions required.		
Legislation and	May include:		
regulations	Legislation Pesticide Acts		
	OHS Acts regarding hazardous substances and		
	application equipment		
	<ul><li>Dangerous Goods Act</li><li>Poisons Act or Protection of the Environment Acts.</li></ul>		
Procedures	May include:		
T TOOGGATOS	identifying needs for specific chemical use as part of IPM/IRM, reading and interpreting product labels and MSDS		
	mixing chemicals		
	calibration of application equipment		
	application of specified products		
	disposal of unused product     Charling		
	<ul><li>Checking</li><li>Maintenance</li></ul>		
	repair and disposal of equipment and containers		
	<ul> <li>procedures and precautions for transport and storage</li> </ul>		
	emergency procedures in event of spillage		
	Contamination		
	Accidental contact or ingestion, procedures for keeping		
	records (e.g., chemical inventory, details of chemical		
Directions and	use), training and assessment strategy for staff.		
Directions and standards	May include a risk management strategy, registration requirements and IPM/IRM strategies		
Training and	May include:		
assessment	Internal training may include on-job coaching and		
	instruction by qualified trainers, performance appraisal by		
	supervisors, training programs conducted in the		
	workplace		
	External training and assessment options may include training programs conducted by registered training		
	organizations, or workshops		
Criteria	May include monitoring pest levels over time from an		
	established benchmark		

Page 17 of 78	Ministry of Education Copyright	Rubber Tree Latex Harvesting & Processing Management Ethiopian Occupational Standard	Version 1 June 2016	
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Evidence Guide	
Critical Aspects of Competence	<ul> <li>A candidate must be able to demonstrate the ability to:</li> <li>Identify and consider the requirements for chemical use at a workplace</li> <li>Develop a chemical use management strategy based on a consideration of the available suitable chemicals, and the hazards and risks in their use.</li> <li>Describe a range of chemicals and the factors that need to be taken into account when carrying out a risk management analysis.</li> <li>demonstrate a chemical use management strategy that details chemical use requirements, details of selected chemicals (including specific identification and justification for chemicals selected),any special accreditation requirements for the use of any chemicals identified in the strategy,</li> <li>Demonstrate procedures and precautions for the transport, storage, handling and application of the identified chemicals including disposal of unused product, emergency procedures including first aid and reporting requirements, training or assessment arrangements and record keeping arrangements.</li> </ul>
Underpinning Knowledge and Attitudes	<ul> <li>Demonstrates knowledge of:</li> <li>Develop a chemical use management strategy based on a consideration of the available suitable chemicals, and the hazards and risks in their use.</li> <li>Describe a range of chemicals and the factors that need to be taken into account when carrying out a risk management analysis.</li> <li>demonstrate a chemical use management strategy that details chemical use requirements, details of selected chemicals (including specific identification and justification for chemicals selected), any special accreditation requirements for the use of any chemicals identified in the strategy,</li> </ul>
Underpinning Skills	<ul> <li>Demonstrates skills to:</li> <li>Hazards to human health, agricultural produce, and all aspects of the environment and non-target species of flora and fauna associated with the transport, storage, handling, application and disposal of chemicals.</li> <li>Factors that contribute to spray drift, measures to assess the potential for spray drift and prevent or control its occurrence, and the elements of a spray drift management strategy.</li> </ul>

Page 18 of 78	Ministry of Education Copyright	Rubber Tree Latex Harvesting & Processing  Management  Ethiopian Occupational Standard	Version 1 June 2016
---------------	------------------------------------	--	------------------------

	Routes of entry of chemicals into the body and the implications of this on chemical use management
	<ul> <li>strategies.</li> <li>Safety procedures including the maintenance, use, fit and decontamination of personal protective clothing and equipment.</li> </ul>
	<ul> <li>Influence of meteorological factors (temperature, humidity, rain) on quality of chemical application, drift potential, effectiveness and efficacy of use.</li> </ul>
	<ul> <li>Precautions and risk control measures that may be used to minimize risks and hazards associated with the use of chemicals.</li> </ul>
	<ul> <li>Principles of IPM/IRM/IAM and their benefits in terms of chemical use risk management.</li> </ul>
	<ul> <li>Emergency procedures for safety incidents involving chemicals.</li> </ul>
	Requirements and options for the keeping of records on chemical use and equipment maintenance and repair.  Biring the second of the keeping of records on chemical use and equipment maintenance and repair.
	<ul> <li>Principles of residue effects and their management including persistence in soil and water, accumulation in agricultural produce, rate of breakdown of residues in produce and in the environment, withholding periods, and ways in which residues can occur.</li> </ul>
	<ul> <li>Movement of and persistence and degradation of different types of chemicals in various areas of the environment such as soil, air and water.</li> </ul>
	<ul> <li>OHS legislative requirements and Codes of Practice.</li> <li>Appropriate insurances covering chemical use, transportation and storage.</li> </ul>
	<ul> <li>Correct wearing/fit of personal protective equipment.</li> <li>Use of chemicals as part of a comprehensive Quality Assurance (QA) system, Industry QA programs and performance standards.</li> </ul>
Resource Implications	Access is required to real or appropriately simulated situations, including work areas, materials and equipment, and to information on workplace practices and OHS practices.
Methods of Assessment	Competence may be assessed through:  • Interview / Written Test  • Observation / Demonstration with Oral Questioning
Context of Assessment	Competence may be assessed in the work place or in a simulated work place setting.

Page 19 of 78	Ministry of Education Copyright	Rubber Tree Latex Harvesting & Processing Management Ethiopian Occupational Standard	Version 1 June 2016
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Occupational Standard: Rubber Tree Latex Harvesting & Processing Management Level V	
Unit Title	Develop Climatic Risk Management Strategies
Unit Code	IND LPM5 04 0616
Unit Descriptor	This competency standard describes the work function associated with developing climate risk management strategies for an agricultural, horticultural or land management enterprise. It requires the ability to research climate and enterprise data analyze and interpret climate and enterprise data, prepare risk management strategies, and integrate climate risk and opportunities for management strategies at a business management level. Developing climate risk management strategies requires knowledge of current forecasting techniques, impact of weather and climate phenomena on rainfall, plant growth and yields, livestock production, causes of general patterns of weather and climate over Ethiopia, climate variability and climate change, and direct and indirect impacts of climate variability on land management and sustainability.

Elements	Performance Criteria
1.Survey climate and enterprise data	1.1 Historical climate date is obtained and interpreted from a range of sources.
	1.2Weather and climate <i>risk factors</i> are identified.
	1.3Information on normal and <i>significant climate events</i> and their impact on natural and rural system is collected.
	1.4Current and historical property and <i>enterprise situation</i> is detailed according to enterprise guidelines.
	1.5Short and long term enterprise goals are reviewed.
	1.6Climate and enterprise date is sourced, presented and updated according to enterprise requirements.
2.Identify and analyze Climate risk and	2.1 Forecasted chances of seasonal climate are analyzed.
opportunities	2.2 Climate risks and opportunities are identified.
	2.3Impact on production of different weather and climate risk factors are determined according to enterprise requirements.
	2.4Qualitative and quantitative risk and opportunity factors are identified and developed.
	2.5Importance of climate variability and significant climate events is evaluated.
	Rubber Tree Latex Harvesting & Processing

Page 20 of 78	Ministry of Education Copyright	Rubber Tree Latex Harvesting & Processing  Management  Ethiopian Occupational Standard	Version 1 June 2016
---------------	------------------------------------	--	------------------------

	2.6Tactics to address a range of different climate variability risks and opportunities are outlined according to enterprise requirements.
	2.7 <b>Contingency options</b> for enterprises and the business.
3.identify impact of climate change and its management	3.1 Climate variability and seasonal climate forecasts are analyzed.
no managomoni	3.2Insurance and other options are addressed in strategies.
	3.3Major climate risk factors are addressed in strategies.
	3.4Financial outcomes for all strategies are prepared according to enterprise guidelines.
	3.5Impacts on the environment, <i>property values</i> and equity are predicted for the preferred strategies.
	3.6Preferred production, enterprise or alternative strategies are reviewed, and options selected according to enterprise requirements.
	3.7A planned strategy to cope with variable climate and climate risk management is presented in a format according to enterprise guidelines.

Variables	Range
Risk factors	May include:
	<ul> <li>soil erosion, tree cover, flooding,</li> </ul>
	<ul> <li>drought, fire management,</li> </ul>
	<ul> <li>pests and diseases,</li> </ul>
	<ul> <li>changing nutrient levels</li> </ul>
Significant climate	May include
events	<ul> <li>floods, droughts</li> </ul>
	<ul> <li>periods of extreme temperature</li> </ul>
Enterprise situation	May include:
	• stock
	<ul> <li>pasture</li> </ul>
	• crops, climate,
	<ul> <li>Vegetation</li> </ul>
	<ul> <li>Waterways</li> </ul>
	<ul> <li>slope, aspect and growing season.</li> </ul>
Climate risks and	May include:
Opportunities	<ul> <li>above average production,</li> </ul>
	<ul> <li>market opportunities,</li> </ul>
	<ul> <li>refining enterprise mix decisions, and alternative</li> </ul>
	enterprises.

Page 21 of 78	Ministry of Education Copyright	Rubber Tree Latex Harvesting & Processing Management Ethiopian Occupational Standard	Version 1 June 2016
---------------	------------------------------------	--	------------------------

Contingency options	May include:	
	Marketing	
	cropping strategies	
	plant production	
	<ul> <li>animal husbandry and health,</li> </ul>	
	removing stock	
	<ul> <li>re-stocking property,</li> </ul>	
	<ul> <li>provision of food supplements,</li> </ul>	
	<ul> <li>changing enterprises, and other emergency planning</li> </ul>	
Property values	May include:	
	• economic	
	enterprise sustainability	
	<ul> <li>improvement in natural resource base, and</li> </ul>	
	Other benefits.	

Evidence Guide			
Critical Aspects of Competence	<ul> <li>A candidate must be able to demonstrate the ability to:</li> <li>Research, collate and interpret climate data in order to develop and present rational, achievable and effective strategies.</li> <li>Explain direct and indirect impacts of climate variability on land management and sustainability</li> <li>Explain potential impacts of greenhouse warming on land and natural resource management</li> <li>Identify strategic options and planning in response to climate variability for a range of seasons (normal, drier or wetter than normal), and other risks and opportunities</li> <li>Calculate financial returns for different strategic options</li> </ul>		
Underpinning Knowledge and Attitudes	<ul> <li>Calculate financial returns for different strategic options</li> <li>Demonstrates knowledge of:</li> <li>Current forecasting techniques and phenomena such as El Nino.</li> <li>the impact of weather and climate phenomena on rainfall, plant growth and yields</li> <li>causes of general patterns of weather and climate</li> <li>climate variability and climate change</li> <li>direct and indirect impacts of climate variability on land management and sustainability</li> <li>property and enterprise management decisions affected by the variable climate</li> <li>recognition of climate risks and opportunities</li> <li>seasonal climate forecasting systems and related indicators</li> <li>drought planning and strategies</li> </ul>		
	flood planning and strategies		

Page 22 of 78	Ministry of Education Copyright	Rubber Tree Latex Harvesting & Processing  Management  Ethiopian Occupational Standard	Version 1 June 2016
---------------	------------------------------------	--	------------------------

	<ul> <li>climate and weather issues pertaining to sustainable agriculture</li> <li>potential impacts of greenhouse warming on land and natural resource management</li> <li>strategic options and planning in response to climate variability for a range of seasons (normal, drier or wetter than normal), and other risks and opportunities</li> <li>calculating financial returns for different strategic options</li> <li>computer applications and Internet to access, record and analyze data</li> <li>Principles of decision-making based on the variable climate and seasonal climate forecasts.</li> </ul>
Underpinning Skills	To achieve the performance criteria, appropriate literacy and numeracy levels as well as some complementary skills are required. These include the ability to:  • research climate and enterprise data  • analyze and interpret climate and enterprise data  • prepare risk management strategies  • Integrate climate risk, and opportunities and management strategies at a business management level.
Resource Implications	Access is required to real or appropriately simulated situations, including work areas, materials and equipment, and to information on workplace practices and OHS practices.
Methods of Assessment	Competence may be assessed through:  Interview / Written Test  Observation / Demonstration with Oral Questioning
Context of Assessment	Competence may be assessed in the work place or in a simulated work place setting.

Occupational Standard: Rubber Tree Latex Harvesting & Processing Management	
	Level V
Unit Title	Develop a Whole Farm Plan
Unit Code	<u>IND LPM5 05 0616</u>
Unit Descriptor	This competency standard covers the process of developing a whole farm plan for a rural enterprise. It requires the ability to determine directions for the business, audit the natural resources of the property, monitor legal requirements impacting on the management of the property, and develop management strategies to address natural resource management issues. Developing a whole farm plan requires knowledge of SWOT analysis, sustainable land management practices, property planning processes and approaches, land capability, conservation management strategies, legal requirements and risk management.

Elements	Performance Criteria
Determine directions for the business	1.1 Long-term directions and purposes of the business are established through identification and analysis of the values, expectations and personal goals of the people involved.
	1.2 Business and personal strengths, weaknesses, opportunities and threats are identified (SWOT analysis).
	Strategies to address the SWOT are developed consistent with the business vision.
2. Audit the natural resources of the	2.1 <b>Physical characteristics</b> of the soil resource are identified and recorded.
property	2.2 Soil map of property is drawn and land classes are recorded using classification terminology.
	2.3 Land capability is determined and land management options for each land class identified.
	2.4 Natural property features and <i>infrastructure</i> are shown on property map.
	2.5 Areas at risk of soil degradation are identified.
	2.6 Native vegetation is classified and condition is assessed.
	2.7 Endangered species are identified as appropriate.
	2.8 Other <i>natural resource issues</i> are identified as appropriate to the property.
3. Monitor legal requirements	3.1 Current knowledge of relevant Acts and regulations impacting on the property is maintained.

Page 24 of 78	Ministry of Education Copyright	Rubber Tree Latex Harvesting & Processing Management Ethiopian Occupational Standard	Version 1 June 2016
---------------	------------------------------------	--	------------------------

	3.2 Legal requirements are addressed through management plans.
4. Develop management strategies	<ul><li>4.1 Property improvement plans to assist natural resource management are developed, coasted and prioritized.</li><li>4.2 Plans to repair land degradation are developed.</li></ul>
	4.3 Strategies to address water supply and water management, vegetation and revegetation management, and wildlife management are prepared as appropriate to the property.
	4.4 Strategies for weed and pest management are developed.
	4.5 Plans to address fire risk/fire management are developed as appropriate.
	4.6.Plans are reviewed and revised to meet changing circumstances

Variables	Range
Physical characteristics	May include moisture content, ph levels, nutrient levels,
	salinity, erosion, germination rates, aggregate stability, color,
	texture, structure, and pest and disease prevalence.
Infrastructure	May include buildings, sheds, shelters, stock yards, stock handling structures, fences, water supply systems, roads, tracks, soil conservation works, irrigation and drainage channels, silage pits and/or Seed and fodder storage, and dams.
Natural resource issues	May include issues stock grazing pressure, feral animals, wildlife, weeds, human impact, cultural practices, contamination, agricultural chemical drift, fire, reintroduction of native animals, legislation, management advice, and initiation of heritage agreements and other issues.

<b>Evidence Guide</b>	
Critical Aspects of Competence	<ul> <li>A candidate must be able to:</li> <li>Undertake SWOT analysis</li> <li>audit the natural resources of the property</li> <li>determine directions for the business</li> <li>audit the natural resources of the property</li> <li>monitor legal requirements impacting on the management of the property</li> <li>Develop management strategies to address natural resource management issues.</li> <li>Communicate ideas and information through the development of whole farm plans.</li> </ul>

Page 25 of 78	Ministry of Education Copyright	Rubber Tree Latex Harvesting & Processing Management Ethiopian Occupational Standard	Version 1 June 2016
---------------	------------------------------------	--	------------------------

Underpinning	Demonstrates knowledge of:
Knowledge and	business objectives and plans,
Attitudes	plans for sustainable land
	relevant data from a natural resources audit and build on
	and contribute to other plans, such as the business plan,
	human resources plan and risk management plan.
	SWOT analysis
	the natural resources of the property
	legal requirements impacting on the management of the
	property
	management strategies to address natural resource
	management issues.
	ideas and information through the development of whole
	farm plans.
Underpinning Skills	Demonstrates skills to:
Since pinning Sinne	Determine directions for the business
	Audit the natural resources of the property
	Monitor legal requirements impacting on the management
	of the property
	Develop management strategies to address natural
	resource management issues.
	Communicate ideas and information through the
	development of whole farm plans.
	Organize information in accordance with whole farm
	planning processes.
	Plan and organize activities in accordance with whole farm
	planning processes.
	Apply team work during the development of whole farm
	plans.
	Use mathematical ideas and techniques when collecting
	and using primary data about farm resources.
	Solve problems in the analysis and decision-making
	process.
	Use appropriate data collection and storage technology.
Resource Implications	Access is required to real or appropriately simulated
	situations, including work areas, materials and equipment,
	and to information on workplace practices and OHS
	practices.
Methods of Assessment	Competence may be assessed through:
	Interview / Written Test
	Observation / Demonstration with Oral Questioning
Context of Assessment	Competence may be assessed in the work place or in a
	simulated work place setting.

Page 26 of 78	Ministry of Education Copyright	Rubber Tree Latex Harvesting & Processing Management Ethiopian Occupational Standard	Version 1 June 2016
---------------	------------------------------------	--	------------------------

Occupational Standard	: Rubber Tree Latex Harvesting & Processing Management
	Level V
Unit Title	Plan and Manage Stored Rubber Seed and Grain
Unit Code	IND LPM5 06 0616
Unit Descriptor	This competency standard covers the process of planning seed and other grains storage for the long, medium and short term to maximize returns for the organization. This includes pest control and OHS planning as well as ensuring that appropriate records are kept throughout the operation. This standard also covers the work required to identify and solve problems as they occur throughout the Seed and other grain storage operation. Planning for, and managing Seed storage is likely to be undertaken alone or under broad guidance. Responsibility for the planning and management of the work of others may be involved. Planning for, and managing Seed storage involves the self-directed application of extensive knowledge including effective management of pests and/or diseases in stored Seed and others. It requires a range of technical and other skills such as planning, establishing procedures and control for implementation by others, and the estimation of the financial effects of a range of problems.

Elements		Performance Criteria		
Plan rubber Seed     and other grain     storage program		info	evant organizational <b>documentation an</b> rmation is obtained and analyzed for in age program.	
			available storage facilities are identified assessed for suitability and capacity.	l, recorded
		deliv	projected seed and other grains productory quantities, types and timeframes ar analyzed against storage capacity.	
		1.4 Tem	porary storage if required, is arranged	
		othe	eframes and scheduling for delivery of some of some of the grains to storage facilities on and offer on the contract of the co	
		shor	program includes plans for annual, sea t-term periods, and is prepared to achie objectives of the organization.	
1.7			program, including scheduling and key onsibilities, is clearly documented.	
deta		deta	program includes the type, format, freq il of any reporting required by both mar ators.	•
Page 27 of 78 Ministry of Education Copyright		Education	Rubber Tree Latex Harvesting & Processing Management Ethiopian Occupational Standard	Version 1 June 2016

Plan integrated pest control for the	2.1 Seed and other grains is sampled for pest infestation and <i>testing</i> is organized.
storage area	2.2 The results of samples and tests for pest infestation are recorded and analyzed.
	2.3 An integrated pest management program is developed and implemented to control <b>seed and other grains insects and other pests</b> in storage.
	2.4 Monitoring points, targets and methods are determined to identify possible development of resistance in insects.
	2.5 The pest control strategies selected relate to the requirements of the end use, and to the customers' expectations.
	2.6 Record keeping requirements are determined and procedures are put in place to ensure compliance with the range of applicable regulations.
	2.7 The program, including scheduling and key responsibilities, is clearly documented.
	2.8 The program includes the type, format, frequency and detail of any reporting required by both managers and operators.
3. Implement OHS program for seed and	3.1 <b>OHS hazards</b> are identified within and surrounding the seed and other grains storage area(s).
other grains storage area	3.2 Procedures to minimize OHS risks are developed and documented for use by all people operating around the storage facilities.
	3.3 Procedures to minimize OHS risks are communicated clearly to all people operating around the storage facilities, and confirmation of the clear communication is sought.
	3.4 The OHS program clearly describes the <i>personal protective equipment</i> and safety gear required to be used around the storage facilities.
	3.5 Record keeping requirements are determined and procedures are put in place to ensure compliance with the range of applicable regulations.
	3.6 The program includes the type, format, frequency and detail of any <i>reporting</i> required by both managers and operators.

Page 28 of 78	Ministry of Education Copyright	Rubber Tree Latex Harvesting & Processing Management Ethiopian Occupational Standard	Version 1 June 2016	
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4 14	44.01
Manage the seed     and other grains     storage program	4.1 Checks are made to ensure that the performance indicators, targets and specifications are being met and amendments to the program are made where necessary.
	4.2 Operational personnel are communicated with regularly throughout the storage, transport, sampling and chemical application operations to ensure efficient and safe operation and progress.
	4.3 The impact and risk of existing and potential problems are assessed.
	4.4 Where a potential problem is identified, investigation is made into its likely causes.
	4.5 Alternative <b>solutions</b> are analyzed and reviewed, and the most appropriate is recommended to the appropriate personnel for a decision.
5. Maintain records of stored seed and grains movements	5.1 Records and documentation are created, maintained and kept as described in the seed and grains storage program, the integrated pest management program, and the OHS requirements.
	5.2 Records and documentation are completed clearly and accurately throughout the storage program.
	5.3 The record keeping system that is used ensures that required information is available, accessible, reliable, meaningful, and useful.

Variables	Range
Documentation and	May include:
information	<ul> <li>The documents that outline the organizations production planning for the specified period, those that outline the policies and procedures in relation to chemical handling and OHS, as well as the way in which potential environmental impacts should be approached.</li> </ul>
Assessment	May include:
	<ul> <li>Seed and grains storages are generally assessed in relation to capacity, suitability for fumigation, state of repair and their current use.</li> </ul>
Off site	May include:
	They may be at one large site or a group of smaller sites, which may be operating a single shift or multiple shifts, especially during harvest.

Page 29 of 78	Ministry of Education Copyright	Rubber Tree Latex Harvesting & Processing Management Ethiopian Occupational Standard	Version 1 June 2016
---------------	------------------------------------	--	------------------------

Testing	May include:
	Testing of samples would generally take place off-site by
	a
	specialist organization, which would then prepare
	analysis
	results to be used as a basis for decision-making within
	the organization
Seed and grains	May include:
insects and other pests	They are both vertebrate and invertebrate and might
	include mites, rodents and birds
OHS hazards	might exist where a person is working at height, in an
	enclosed space, on the seed mass, using fumigants, around
	seed and grains dust, desiccants and pesticides residues, or
	working near belts, augers and pulleys.
Personal protective	should be used around the storage facilities would include
Equipment	respirators, overalls, safety boots, head protection, gloves,
	goggles, dust mask and an apron.
Reporting	May include the use and application of pesticides and
	fumigants, and any individual exposure records
Solutions	May include:
	organizational policies or production planning will give
	direction to the solutions recommended, and aspects to
	consider would include safety of personnel and public,
	loss and damage control, risk management, maintenance
	of quality, cost control, cost estimates and savings
	reporting requirements, OHS integrated pest management
	programs, and market standards and requirements.

Evidence Guide			
Critical Aspects of Competence	<ul> <li>Prep cons</li> <li>Seed</li> <li>Calciopers</li> <li>Explamain</li> <li>iden confi</li> <li>Explaprodi</li> <li>Perfororgal</li> <li>Calci</li> </ul>	date must be able to demonstrate the abare plan that takes all potential OHS implication while determining how, where a and grains should be stored, ulate appropriately the resource requirestion.  The procedures are an an an an an an an are and as required by external autuate the resource requirements for the as storage operations from the plan.	pacts into and when ments for the tion, and , especially in in relation to d quality ts within the horities
Page 30 of 78	Ministry of Education Copyright	Rubber Tree Latex Harvesting & Processing Management Ethiopian Occupational Standard	Version 1 June 2016

		pare estimate costs of problems and cost	savings in
	•	ovements	
I lead a main rain a		, schedule, monitor and amend plans for	operations
Underpinning		strates knowledge of:	
Knowledge and		ayout and operations, configuration, and	1
Attitudes		ntenance procedures	
		working practices, especially in confined eights	spaces and
	• orga	nizational priorities and policies in relation	on to
	proc	uction planning, OHS and chemical use	
		nizational priorities and policies in relation onnel and operations	on to quality,
	•	control principles	
	•	rting and recording requirements within t	the
		nization and as required by external auth	
	_	eral seeds and grains market and commo	
		cific electronic systems used within the o	• •
	-	grated pest and weed management tech	-
		vant legislation and regulations relating to	
		ractor engagement, chemical use and ap	
		agement, and vehicle and plant use	•
		nd management practices and processes	s to minimize
	nois	e, odors, and debris from seeds and grai	ins storage
		ations.	_
Underpinning S	Skills Demon	strate skills to:	
		nate costs of problems and cost savings ovements	in
	· ·	, schedule, monitor and amend plans for	r operations
		inister and co-ordinate operations on a s	
		pare written plans and procedures for imp	
		thers	
	• Exp	ain, and deliver instructions about the pla	ans and
	sche	eduling of the seeds and grains storage o	perations to
		staff and contractors	
	• Obs	erve, identify and react appropriately to e	environmental
		ications and ohs hazards.	
		ect, analyze and organize information as	input to the
		ementation plan.	
		and organize activities by scheduling fo	
		erials and equipment to be in the right pla	ace at the
		time.	
		Manage and monitor the operation.      Calculate the resource requirements for the seeds and	
		fulate the resource requirements for the s	seeus and
	yran	ns storage operations from the plan.	
D 01 170	Ministry of Education	Rubber Tree Latex Harvesting & Processing	Version 1
Page 31 of 78	Copyright	Management Ethiopian Occupational Standard	June 2016

Page 31 of 78	Ministry of Education Copyright	Rubber Tree Latex Harvesting & Processing  Management  Ethiopian Occupational Standard	Version 1 June 2016
---------------	------------------------------------	--	------------------------

Resource Implications	Access is required to real or appropriately simulated situations, including work areas, materials and equipment, and to information on workplace practices and OHS practices.
Methods of Assessment	Competence may be assessed through:
	Interview / Written Test
	Observation / Demonstration with Oral Questioning
Context of Assessment	Competence may be assessed in the work place or in a
	simulated work place setting.

Occupational Standard: Rubber Tree Latex Harvesting & Processing Management	
	Level V
Unit Title	Plan and Manage Stored Dry Rubber Sheet
Unit Code	IND LPM5 07 0616
Unit Descriptor	This competency standard covers the process of planning dry rubber sheet storage for the long, medium and short term to maximize returns for the organization. This includes disease control and OHS planning as well as ensuring that appropriate records are kept throughout the operation. This standard also covers the work required to identify and solve problems as they occur throughout the dry rubber sheet production. Planning for and managing dry rubber sheet is likely to be undertaken alone or under broad guidance. Responsibility for the planning and management of the work of others may be involved. Planning and managing dry rubber sheet involves the self-directed application of extensive knowledge including effective management of diseases in stored dry rubber sheet. It requires a range of technical and other skills such as planning, establishing procedures and control for implementation by others, and the estimation of the financial effects of a range of problems.

Elements	Performance Criteria
Plan dry rubber sheet storage program	1.1 Relevant organizational documentation and information is obtained and analyzed as input to the storage program.
	1.2 The available storage facilities are identified, recorded and assessed for suitability and capacity.
	1.3 The projected dry rubber sheet production and delivery quantities, types and timeframes are calculated and analyzed against storage capacity.
	1.4 Temporary storage if required, is arranged
	1.5 Timeframes and scheduling for delivery of dry rubber sheet facilities on- and <i>off-site</i> are estimated.
	1.6 The program includes plans for annual, seasonal and short-term periods, and is prepared to achieve the goals and objectives of the organization.
	1.7 The program, including scheduling and key responsibilities, is clearly documented.
	1.8 The program includes the type, format, frequency and detail of any reporting required by both managers and operators.

Page 34 of 78 Ministry
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Plan integrated disease control for the storage area	2.1 Dry rubber sheet is sampled for disease infestation and <i>testing</i> is organized.
	2.2 The results of samples and tests for disease infestation are recorded and analyzed.
	2.3 An integrated disease management program is developed and implemented to control <i>dry rubber sheet diseases</i> in storage.
	2.4 Monitoring points, targets and methods are determined to identify possible development of resistance in insects.
	2.5 The disease control strategies selected relate to the requirements of the end use, and to the customers' expectations.
	2.6 Record keeping requirements are determined and procedures are put in place to ensure compliance with the range of applicable regulations.
	2.7 The program, including scheduling and key responsibilities, is clearly documented.
	2.8 The program includes the type, format, frequency and detail of any reporting required by both managers and operators.
3. Implement OHS program for dry rubber sheet storage area	3.1 <i>OHS hazards</i> are identified within and surrounding the dry rubber sheet storage area(s).
	3.2 Procedures to minimize OHS risks are developed and documented for use by all people operating around the storage facilities.
	3.3 Procedures to minimize OHS risks are communicated clearly to all people operating around the storage facilities, and confirmation of the clear communication is sought.
	3.4 The OHS program clearly describes the <i>personal protective equipment</i> and safety gear required to be used around the storage facilities.
	3.5 Record keeping requirements are determined and procedures are put in place to ensure compliance with the range of applicable regulations.
	3.6 The program includes the type, format, frequency and detail of any <i>reporting</i> required by both managers and operators.

Page 35 of 78	Ministry of Education Copyright	Rubber Tree Latex Harvesting & Processing Management Ethiopian Occupational Standard	Version 1 June 2016
---------------	------------------------------------	--	------------------------

Manage the dry     rubber sheet storage     program	4.6 Checks are made to ensure that the performance indicators, targets and specifications are being met and amendments to the program are made where necessary.
	4.7 Operational personnel are communicated with regularly throughout the storage, transport, sampling and chemical application operations to ensure efficient and safe operation and progress.
	4.8 The impact and risk of existing and potential problems are assessed.
	4.9 Where a potential problem is identified, investigation is made into its likely causes.
	4.10 Alternative <b>solutions</b> are analyzed and reviewed, and the most appropriate is recommended to the appropriate personnel for a decision.
5. Maintain records of dry rubber sheet movements	5.4 Records and documentation are created, maintained and kept as described in the dry rubber sheet, the integrated disease management program, and the OHS requirements.
	5.5 Records and documentation are completed clearly and accurately throughout the storage program.
	5.6 The record keeping system that is used ensures that required information is available, accessible, reliable, meaningful, and useful.

Variables		Range		
Documentation	and	May include:		
information		<ul> <li>The documents that outline the organizations production planning for the specified period, those that outline the policies and procedures in relation to chemical handling and OHS, as well as the way in which potential environmental impacts should be approached.</li> </ul>		
Assessment		May include dry rubber sheet storages are generally assessed in relation to capacity, suitability for fumigation, state of repair and their current use.		
Off site		May include:		
		<ul> <li>They may be at one large site or a group of smaller sites, which may be operating a single shift or multiple shifts, especially during harvest.</li> </ul>		
Testing		May include samples would generally take place off-site by a specialist organization, which would then prepare analysis results to be used as a basis for decision-making within the organization		
Page 36 of 78	Ministry of Education Copyright		Rubber Tree Latex Harvesting & Processing Management Ethiopian Occupational Standard	Version 1 June 2016

Dry rubber sheet	May include:
diseases	It may be fungus.
OHS hazards	May include:
	<ul> <li>Such hazards might exist where a person is working at height, in an enclosed space, dry rubber sheet mass, using fumigants, around dry rubber sheet dust and fungicides residues.</li> </ul>
Personal protective	May include:
equipment	<ul> <li>Personal protective equipment that should be used around the storage facilities would include respirators, overalls, safety boots, head protection, gloves, goggles, dust mask and an apron.</li> </ul>
Reporting	May include the use and application of fungicides and
	fumigants, and any individual exposure records
Solutions	May include:
	<ul> <li>Organizational policies or production planning will give direction to the solutions recommended, and aspects to consider would include safety of personnel and public, loss and damage control, risk management, maintenance of quality, cost control, cost estimates and savings reporting requirements, OHS integrated pest management programs, and market standards and requirements.</li> </ul>

Evidence Guide	
Critical Aspects of Competence	<ul> <li>A candidate must be able to demonstrate the ability to:</li> <li>Prepare plan that takes all potential OHS impacts into consideration while determining how, where and when dry rubber sheet should be stored,</li> <li>Calculate appropriately the resource requirements for the operation.</li> <li>Explain warehouse layout and operations, configuration, and maintenance procedures</li> <li>identify and describe safe working practices, especially in confined spaces and at heights</li> <li>Explain organizational priorities and policies in relation to production planning, OHS, chemical use, and quality</li> <li>Perform reporting and recording requirements within the organization and as required by external authorities</li> <li>Calculate the resource requirements for the dry rubber sheet storage operations from the plan.</li> <li>Prepare estimate costs of problems and cost savings in improvements</li> <li>plan, schedule, monitor and amend plans for operations</li> </ul>

Page 37 of 78	Ministry of Education Copyright	Rubber Tree Latex Harvesting & Processing Management Ethiopian Occupational Standard	Version 1 June 2016
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The decident	D
Underpinning	Demonstrates knowledge of:
Knowledge and	Warehouse layout and operations, configuration, and
Attitudes	maintenance procedures
	<ul> <li>Safe working practices, especially in confined spaces and at heights</li> </ul>
	Organizational priorities and policies in relation to
	production planning, OHS and chemical use
	Organizational priorities and policies in relation to quality, personnel and operations
	· ·
	Disease control principles     Reporting and recording requirements within the
	organization and as required by external authorities
	General dry rubber sheet market and commodity prices
	specific electronic systems used within the organization
	integrated disease management techniques
	Relevant legislation and regulations relating to OHS,
	contractor engagement, chemical use and application,
	site management, and vehicle and plant use
	Foreign particles have to be minimized like odors, and
	debris from dry rubber sheet storage operations.
Underpinning Skills	Demonstrate skills to:
	<ul> <li>Estimate costs of problems and cost savings in improvements</li> </ul>
	Plan, schedule, monitor and amend plans for operations
	Administer and co-ordinate operations on a site
	Prepare written plans and procedures for implementation by others
	<ul> <li>Explain, and deliver instructions about the plans and</li> </ul>
	scheduling of the dry rubber sheet storage operations to both staff and contractors
	Observe, identify and react appropriately to environmental implications and OHS hazards.
	<ul> <li>Collect, analyze and organize information as input to the</li> </ul>
	implementation plan.
	Plan and organize activities by scheduling for the people,
	materials and equipment to be in the right place at the right time.
	Manage and monitor the operation.
	Calculate the resource requirements for the dry rubber
	sheet storage operations from the plan.
Resource Implications	Access is required to real or appropriately simulated
	situations, including work areas, materials and equipment,
	and to information on workplace practices and OHS
	practices.

Page 38 of 78	Ministry of Education Copyright	Rubber Tree Latex Harvesting & Processing Management Ethiopian Occupational Standard	Version 1 June 2016
---------------	------------------------------------	--	------------------------

Methods of Assessment	Competence may be assessed through:	
	Interview / Written Test	
	Observation / Demonstration with Oral Questioning	
Context of Assessment	Competence may be assessed in the work place or in a	
	simulated work place setting.	

Occupational Standard: Rubber Tree Latex Harvesting & Processing Managemer Level V	
Unit Title	Plan and Manage Long-Term Weed, Pest and/or Disease Control
Unit Code	<u>IND LPM5 08 0616</u>
Unit Descriptor	This competency standard covers the process of planning for long-term weed, pest and/or disease control, and then managing the implementation of such a plan. It includes the need to provide input to planning processes that may be occurring elsewhere in the organization, and to determine the scheduling for implementation. It requires the need to monitor and adjust the plan in response to changing situations, and to subsequently evaluate the outcomes of the weed, pest and/or disease control measures taken. Responsibility for the planning and management of the work of others may be involved. Planning for and managing weed, pest and/or disease control involves the self directed application of knowledge with substantial depth in some areas such as the effects on rubber tree of weeds, pests and/or diseases, including competitive effects on rubber tree and the effects of alternative methods of control. It requires a range of technical and other skills such as planning, establishing procedures and control for implementation by others, and the identification of the sign, symptoms of poor growth and lack of vigor in the rubber tree.

Elements	Performance Criteria
Source information for input to weed, pest and/or disease	1.1 Historical <i>data</i> , including recent data from organizational records is identified and accessed for input to <i>weed</i> , <i>pest</i> and/or <i>disease</i> control planning.
control planning.	1.2 Information from other enterprises within the district is sought and gathered.
	1.3 Information regarding the characteristics of the rubber tree(s) planned for, or under production, is accessed.
	1.4 Information regarding the local geography, soil and climatic conditions is accessed and gathered.
	1.5 The environmental implications of pesticide/ <i>herbicides</i> use, alternative methods and non-chemical preventative or biological control methods are considered and documented.
	Information is assessed to determine potential key information for input to planning decisions.

Page 40 of 78	Ministry of Education Copyright	Rubber Tree Latex Harvesting & Processing  Management  Ethiopian Occupational Standard	Version 1 June 2016
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Determine long-term weed, pest and/or	2.1 Information gathered is analyzed for suitable methods of weed, pest and/or disease control.
disease control strategies	2.2 Methods of control are considered in light of their <i>impacts</i> .
	2.3 Strategies for weed, pest and/or disease control are determined to integrate the most suitable <i>control</i> <i>methods</i> with the proposed rubber tree and the existing geography.
	2.4 Environmental controls are established and specifically included in the plan.
	2.5 OHS hazards are identified, risks assessed and suitable controls are incorporated into the plan.
Provide input to other planning processes	3.1 Details regarding selected weed, pest and/or disease control strategies are used as input to other organizational <i>planning processes</i> .
	3.2 Information regarding other planning processes is collected and used to inform the weed, pest and/or disease control planning process.
	3.3 Information about the range of planning processes is communicated verbally and/or in writing according to the requirements of the circumstances and the people involved.
4 Determine scheduling and key responsibilities	4.1 <b>Scheduling</b> for weed, pest and/or disease control is determined taking the range of seasonal, geographic and resourcing factors into consideration.
	4.2 Key responsibilities for specific implementation processes are determined.
	4.3 <b>Record keeping</b> requirements are determined and procedures are put in place to ensure compliance with the range of applicable regulations.
	4.4 The plan, including scheduling and key responsibilities, is clearly documented.
	4.5 The plan includes the type, format, frequency and detail of any reporting required by both manager(s) and operators.
5. Monitor and adjust weed, pest and/or disease control strategies	5.1 The effectiveness of the weed, pest and/or disease control strategies is evaluated at key points, and adjustments made as necessary.
Ministry of	Education Rubber Tree Latex Harvesting & Processing Version 1

Page 41 of 78	Ministry of Education Copyright	Management Ethiopian Occupational Standard	Version 1 June 2016
---------------	------------------------------------	--	------------------------

	5.2 Environmental impacts and <i>OHS</i> hazards relating to weed, pest and/or disease control are identified, monitored and assessed throughout the implementation process.
	5.3 Modifications are made to the strategy as and when necessary for environmental, OHS, researching, or effectiveness reasons.
6. Evaluate weed, pest and/or disease control strategies and record results	6.1 Data, observations, and documentation from the implementation of weed, pest and/or disease control is analyzed against the plan according to organization guidelines.
	6.2 Recommendations for future strategies are prepared based on the analysis of the data.
	6.3 A report is prepared that documents the implementation of the strategies and includes, any difficulties or issues faced, the methods used for treatment ,impacts on environmental and OHS ,any recommendations for future work ,results and costs and any available data analysis.

Variables		Range		
Data		<ul> <li>May include:</li> <li>From the distant or recent past, and might include the species and types of weeds that have affected the property. Aspects of the weeds may be the density and growth stage in relation to the rubber tree, distribution throughout the paddock, efficacy of herbicide applied prior to monitoring, and herbicide resistance control measures.</li> </ul>		
Weed and pest	t	<ul> <li>Wed</li> <li>Pati</li> <li>Ver</li> <li>Ner</li> <li>Wed</li> <li>leaf,</li> <li>Inversion</li> </ul>	h pests as insects	matodes, pests might
Diseases May incl • Folia mild		May incl • Folia		t, ascochyta, logens, (for
Page 42 of 78 Ministry of Education Copyright			Rubber Tree Latex Harvesting & Processing Management Ethiopian Occupational Standard	Version 1 June 2016

			disease, mouldy rot ,leaf fall disease co	•	
			atodes), rhizoctonia, pythium, fusarium ophthora.	, or	
Herbicides		May incl			
		• Pre-	or post-emergence, and may be root/for	oliar	
		abso	orbed. They may be used selectively or	non-	
		sele	ctively, or combinations of these.		
Impacts		May incl	ude;		
		• Tho:	se that cause financial, environmental, I	abor, OHS	
		and	opportunity costs to the organization.		
Control method	ds	May incl	ude		
		• Amo	ongst the invertebrate pest control meth	ods that may	
		be u	sed are insecticides, biological agents,	crop rotation	
		and	fallowing. Vertebrate pest control method	ods may	
		inclu	ide physical barriers, baiting methods, s	shooting,	
			igation of burrows, trapping, netting, ar	_	
		cont	7 11 07	Ü	
		• In th	e instance of weed infestations, the sel	ection of	
			icides involves the collection of informa		
			uation of alternatives, purchasing arran	•	
			age, and degree of risk to user and env		
			per application and disposal of residues		
			ufacturer's recommendations, and legis		
		end user requirements.			
Planning proce	sses	May include :			
, imming process		-	planning processes that deal with other	r discrete	
		areas of the organization's production include those such			
		as production planning, irrigation planning, pasture and			
		crop management planning, rubber tree property			
		management planning, business planning, marketing			
			ning, and livestock production planning	_	
Scheduling		May include timing of treatments is planned to suit seasonal			
J		influences, weather and weather forecasts, as well as the			
		local geography and the organization's resourcing situation.			
Records keepir	ng	May include be created and stored either manually or			
	J	electronically, they may also be in the form of samples of			
		weeds or pests, photographs or sketches			
OHS			May include:		
	•		<ul> <li>Safe systems and procedures for storage, handling and</li> </ul>		
			transportation of hazardous substances; chemicals		
		selected taking into account toxicity levels and			
		environmental effects; systems and procedures for the			
			safe operation and maintenance of machinery and		
		equipment, including hydraulics and guarding of exposed			
moving parts; safe manual handling system					
	Ministra	Education	Rubber Tree Latex Harvesting & Processing	Varsian 4	
Page 43 of 78	Ministry of Copy		Management	Version 1 June 2016	
	Сору		Ethiopian Occupational Standard		

Procedures; safe	systems and procedures for outdoor
work, including p	rotection from solar radiation; selection,
use and mainten	ance of relevant personal protective
clothing and equi	pment; and fire risk.

Evidence Guide	
Critical Aspects of	A candidate must be able to demonstrate the ability to:
Competence	Identify and explain pest and weed species,
'	Explain integrated pest and weed management principles
	Identify environmental controls and codes of practice
	applicable
	Apply relevant legislation and regulations relating to OHS,
	chemical use and application, and vehicle and plant use
	Plan land use incorporating appropriate weed, pest and/or
	disease control measures
	Prepare written plans and procedures for implementation
	by others
	Identify poor growth and lack of vigour caused by nutrient      Identification and lack of vigour caused by nutrient
	deficiency
	<ul> <li>Communicate of ideas and information with the full range of staff and industry participants</li> </ul>
Underpinning	Demonstrates knowledge and understanding of:
Knowledge and	<ul> <li>pest and weed species, including their life cycles and</li> </ul>
Attitudes	reproduction/multiplication capability
	integrated pest and weed management
	the effects on crops of weeds, pests and/or diseases
	<ul> <li>including competitive effects on crop yield; threshold</li> </ul>
	levels; and the effects of alternative methods of control
	environmental controls and codes of practice applicable to
	the enterprise
	<ul> <li>relevant legislation and regulations relating to OHS,</li> </ul>
	chemical use and application, and vehicle and plant use
	environmental controls and codes of practice applicable to
	the business, and to the weed, pest and/or disease
	control operations
	<ul> <li>Sound management practices and processes to minimize noise, odours, and debris from weed, pest and/or disease</li> </ul>
	control operations.
Underpinning Skills	Demonstrates skills to:
	interpret monitored information on pest and weed
	numbers, density and control
	interpret, analyze and extract information from a range of
	sources and discussions
	plan and manage long-term weed, pest and/or disease

Page 44 of 78	Ministry of Education Copyright	Rubber Tree Latex Harvesting & Processing Management Ethiopian Occupational Standard	Version 1 June 2016
---------------	------------------------------------	--	------------------------

	<ul> <li>control including amending plans during the operations</li> <li>plan land use incorporating appropriate weed, pest and/or disease control measures</li> <li>establish processes/strategies, procedures and controls for long-term weed, pest and/or disease control</li> <li>prepare written plans and procedures for implementation by others</li> <li>explain, and deliver instructions about the plans and scheduling of the weed, pest and/or disease control operations to both staff and contractors, as well as suppliers, customers, and neighbors</li> <li>recognize poor growth and lack of vigour caused by nutrient deficiency</li> <li>Observe, identify and react appropriately to environmental implications and OHS hazards.</li> <li>Communicate of ideas and information with the full range of staff and industry participants.</li> <li>Collect, analyze and organize information using the variety of sources available for input to decision-making.</li> <li>Plan and organize activities in developing plans and directions for the long-term control of weeds, pests and/or diseases</li> </ul>
	<ul> <li>diseases.</li> <li>Apply team work in working with colleagues during input to the range of other planning processes.</li> <li>Use mathematical ideas and techniques in calculating quantities, ratios, the extent of infestations and the potential costs of activities.</li> <li>Apply problem-solving skills in recognizing where and when amendment is required to plans.</li> </ul>
	<ul> <li>Apply technology in operating any necessary equipment prior to, and during, the control operations – communication technology, calculating equipment, measuring equipment, and word processing/spread sheeting software.</li> </ul>
Resource Implications	Access is required to real or appropriately simulated situations, including work areas, materials and equipment, and to information on workplace practices and OHS practices.
Methods of Assessment	Competence may be assessed through:  • Interview / Written Test  • Observation / Demonstration with Oral Questioning
Context of Assessment	Competence may be assessed in the work place or in a simulated work place setting.

Page 45 of 78	Ministry of Education Copyright	Rubber Tree Latex Harvesting & Processing Management Ethiopian Occupational Standard	Version 1 June 2016
---------------	------------------------------------	--	------------------------

Occupational Standard	Occupational Standard: Rubber Tree Latex Harvesting & Processing Management Level V		
Unit Title	Manage People's Performance and Relationship		
Unit Code	<u>IND LPM5 09 0616</u>		
Unit Descriptor	This competence standard covers the process of Managing people's performance and relationships. It requires the ability to collect and analyze information on people's performance, application of skills and knowledge to provide information and guidance to personnel in the conduct of their duties, facilitate staff discussions and agreements, and provide constructive evaluation to staff members and all aspects of employee relations impacting on managers. It seeks to develop and maintain a positive and productive workplace environment at all times.		

Elements	Performance Criteria
Communicate work roles	1.1 Roles and responsibilities of staff are clearly defined and documented.
	1.2 Skills of staff are accurately identified and matched with available tasks and duties.
	1.3 Requirements of jobs are clearly identified and communicated to personnel.
	1.4 Information on activities are developed and provided to personnel.
	1.5 <b>OHS</b> policy and procedures are effectively communicated and implemented.
2.Coordinate activities	2.1Work activities are prioritized to ensure completion of outcomes in accordance with available timelines.
	2.2 Work plans are developed to establish appropriate targets and objectives of activities.
	2.3Training and learning opportunities are identified and incorporated into work activities.
	2.4Supervisory and reporting responsibilities are clear and maintained in line with organizational requirements.
	2.5 Enterprise environmental policy and procedures are effectively communicated and implemented.
3.Establish personal work goals	3.1 Personal qualities and performance serve as a positive role model in the workplace.
	3.2 Personal work goals and plans reflect the organization's plans personal plans, responsibilities and accountabilities.

Page 46 of 78	Ministry of Education Copyright	Rubber Tree Latex Harvesting & Processing  Management  Ethiopian Occupational Standard	Version 1 June 2016
---------------	------------------------------------	--	------------------------

	3.3 Action is taken to achieve and extend personal work goals beyond those planned.
	3.4 Consistent personal performance is measured and maintained in varying work conditions and work contexts priorities and commitments.
Set and meet own     work priorities	4.1 Competing demands are prioritized to achieve personal, team and the organization's goals and objectives.
	4.2 Technology is used efficiently and effectively to manage work.
5.Develop and maintain professional competence	5.1 Personal knowledge and skills are assessed against competency standards to determine development needs and priorities.
	5.2 Feedback from clients and colleagues is used to identify and develop ways to improve competence.
	5.3 Management development opportunities suitable to personal learning style(s) are selected and used to develop competence.
	5.4 Participation in professional networks and associations enhances personal knowledge, skills and relationships.
6. Implement employee relations strategy and policies for own work	6.1 <i>Employee relations</i> strategy is consistent with organizational strategic objectives.
area	6.2 Strategies/policies provide for consultation with and participation by, relevant groups and individuals.
	6.3 Strategies and policies are developed through the application of a risk management approach and extensive consultation.
	6.4 <b>Strategy and policies</b> take account of equal opportunity, family/work relationships and ensure the absence of discrimination and/or harassment.
	6.5 <b>Risk management</b> strategies are developed which take account of the withdrawal of labour and other potential outcomes of disputes.
	6.6 Strategies and policies take account of the objectives of relevant groups and individuals and identify potential areas of conflict (if any).
7. Build and maintain a productive culture	7.1 Awards, agreements, and contracts which balance organizational objectives and <i>employee rights and obligations</i> are negotiated.

Page 47 of 78 Ministry of Education Copyright	Rubber Tree Latex Harvesting & Processing  Management  Ethiopian Occupational Standard	Version 1 June 2016
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	7.2 Conditions of employment meet all legal an organizational requirements are made conducive to job satisfaction.
	7.3 Consultation and communication is regular, timely and engenders support for the productive culture.
	7.4 Policies and practices ensure employee recruitment, retention and satisfaction objectives are met.
	7.5 Induction and training develops competence and confidence to ensure work is performed safely and effectively.
	7.6 Employees understand their role and how it contributes to the achievement of organizational objectives.
	7.7 Individual and team development plans are in place and regularly reviewed and updated.
	7.8 Employee relations policies are regularly evaluated and improved.
8. Resolve employee relations problems	8.1 Processes have been established for early intervention to identify and minimize problems/grievances.
	8.2 Problem solving processes are communicated to, and supported by, all relevant groups and individuals.
	8.3 Competence in managing conflict negotiation skills and dispute resolution is developed through appropriate training and preparation.
	8.4 Specialist advice is taken where appropriate and/or where formal hearings are required.
	8.5 Processes are fair and equitable and consistent with all relevant awards agreements and legislation.
	8.6 Problem solving processes provide for external mediation and conciliation where appropriate.
	8.7 Process provides for arbitration of disputes as a last resort and only where appropriate.

Variables	Range
OHS	<ul> <li>May include:</li> <li>maintaining knowledge of OHS legislation, principles and</li> <li>practice within context of Organization's operations and plans</li> <li>inclusion of OHS in personal work priorities within context of organization</li> </ul>

Page 48 of 78	Ministry of Education Copyright	Rubber Tree Latex Harvesting & Processing Management Ethiopian Occupational Standard	Version 1 June 2016
---------------	------------------------------------	--	------------------------

Employee relations	May include:
	<ul> <li>all of the activities in an Organization which impact on the</li> <li>employees' terms and conditions of employment and their</li> <li>personal well-being and satisfaction with their work</li> <li>environment</li> </ul>
Strategies and policies	May include:
Strategies and policies	selection/recruitment
	induction and training
	<ul><li>performance management</li><li>discipline</li></ul>
	equal opportunity
	sexual harassment
	racial discrimination/vilification
	industrial/labour relations
	remuneration and benefits
	human resource strategy
	organizational values statement
Risk management	May include:
Thisk management	the process of identification of potential negative events and the development of plans to mitigate or minimize the likelihood of the negative event occurring and/or the consequences in the event it does occur
Employee rights and	May include:
obligations	those contained within any award agreement or contract of employment, or implied terms of those agreements, together
	with all rights and obligations under the laws of the
	commonwealth and the relevant state/territory

Evidence Guide				
Critical Aspects Competence	s of	<ul> <li>A candidate must be able to demonstrate ability to:</li> <li>Supervise and instruct staff to achieve work activities.</li> <li>Delegate and allocate tasks.</li> <li>Assess and evaluate staff competency.</li> <li>Identify and provide training requirements.</li> <li>Plan and monitor ongoing training needs.</li> <li>Prepare personal work plan</li> <li>Establish personal work priorities</li> <li>Assess own performance</li> <li>Identify and act on own management development needs</li> </ul>		activities.
Knowledge and Attitudes  • Enterp		<ul><li>Enter</li><li>Enter</li></ul>	rates knowledge of: prise personnel processes. prise organizational structure and respo niques for building trust and relationship	
Page 49 of 78	Ministry of Education Copyright		Rubber Tree Latex Harvesting & Processing Management Ethiopian Occupational Standard	Version 1 June 2016

Principles of team work and negotiation. Performance appraisal systems and procedures. Principles of time management. Conflict management techniques. Relevant legislation from all levels of government that affects business operation, especially in regard to Occupational Health and Safety and environmental issues, and industrial Principles and techniques of: Identifying personal behavior, self awareness, personality Establishing a personal development plan The organization's policies, plans and procedures The types of work methods and practices which can improve personal performance The types of learning style(s) and how they relate to the Individual Performance measurement systems utilized within the organization Key result areas of the organization Human resource specialist assistance available Organizational plans and objectives Demonstrates skills to: **Underpinning Skills** Skills include the ability to: Supervise and instruct staff to achieve work activities. Delegate and allocate tasks. Assess and evaluate staff competency. Identify and provide training requirements. Plan and monitor ongoing training needs. Interpret written and oral information about workplace requirements Research information to develop personal and work > Elicite, analyze and interpret feedback Analyze culturally different viewpoints and taking them into account in personal and work plans Monitor workplace trends related to work role and responsibilities Use information systems to assist establish work plans > Assess the effectiveness of own management development Develop and maintaining professional networks relate to people from a range of social, cultural and ethnic backgrounds and physical and mental abilities analyze, identify and develop mitigation strategies for identified risks Rubber Tree Latex Harvesting & Processing Ministry of Education Version 1 Page 50 of 78 Management

Ethiopian Occupational Standard

June 2016

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Resource Implications	<ul> <li>Communicate to ensure all relevant groups and individuals are advised of what is occurring and are provided with an opportunity for input mediate, negotiate and/or attempt to obtain consensus between individuals/groups</li> <li>Networking skills to ensure support from key groups and individuals for concepts/ideas/products/services</li> <li>Ability to relate to people from a range of social, cultural and ethnic backgrounds and physical and mental abilities</li> <li>Access is required to real or appropriately simulated</li> </ul>
	situations, including work areas, materials and equipment, and to information on workplace practices and OHS practices.
Methods of	Competence may be assessed through:
Assessment	Interview / Written Test
	<ul> <li>Observation / Demonstration with Oral Questioning</li> </ul>
Context of Assessment	Competence may be assessed in the work place or in a simulated work place setting.

Occupational Standard	Occupational Standard: Rubber Tree Latex Harvesting & Processing Management Level V	
Unit Title	Evaluate and Select Materials and Processes	
Unit Code	IND LPM5 10 0616	
Unit Descriptor	This competency standard covers the evaluation and selection of materials and processes related to Natural resources conservation. It requires the application of skills and knowledge necessary to review and evaluate material selection processes and ensure safety within organizational environmental guidelines.	

Elements	Performance Criteria	
Evaluate and select materials and equipments	1.1 <i>Materials and equipments</i> are evaluated and selected according to organizational requirements.	
ецириченто	1.1 Selection of materials is done according to the organizations' benefits.	
	1.2 Selected materials and equipments are calculated to justify total purchasing price.	
	1.3 Materials and equipments evaluation, selection and purchase cycles are monitored to identify improvement options and maximize life cycles of purchased items.	
2.Coordinate material selection and	2.1 <b>Storing and housing</b> of materials are organized.	
purchasing	2.2 Purchasing activities are documented and recorded to ensure organizational requirements.	
	2.3 OHS hazards in the workplace are identified, risk assessed and recorded according to organizational requirements.	
	2.4 Coordination methods of materials selection are developed, implemented and monitored according to enterprise specifications and organizations requirements.	
<ol> <li>Monitor operations of the selected materials and</li> </ol>	3.1 Vehicles, consumables and operational support materials are monitored according to organization requirements.	
equipments	3.2 Environmental implications and workplace safety practices are monitored according to OHS and organization requirements.	
	3.3 Operational procedures are clear, documented and followed according to enterprise specifications.	
	3.4 Purchasers are provided with competent instruction and appropriate supervision according to organizations requirements.	
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Page 52 of 78	Ministry of Education Copyright	Management Ethiopian Occupational Standard	Version 1 June 2016	
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Variables	Range
Materials and	May include hydraulic equipment, agricultural and
equipments	horticultural machinery and equipment, engines, irrigation
	equipment, earth moving equipment, spraying equipment,
	solar and wind powered equipment, lifting/elevated
	equipment, all vehicles/motorcycles, all types of park and turf
	maintenance machinery and equipment.
Storing and housing	May include on site, off site, seasonal, covered, open air,
	security and protected.

Evidence Guide	
Critical Aspects of	A candidate must be able to demonstrate ability to:
Competence	<ul> <li>Plan and organize material evaluation and selection activities</li> </ul>
	Work with others and in teams
	Solve problems of fake material supply
	<ul> <li>Examine the specific needs of material evaluation and selection</li> </ul>
	Conduct detailed testing and evaluation of materials
	Demonstrate safe workplace practices
Underpinning	Demonstrates knowledge of:
Knowledge and Attitudes	<ul> <li>Training and instruction techniques for material evaluation and selection</li> </ul>
	<ul> <li>Relevant OHS issues, legislative requirements and Codes of Practice.</li> </ul>
	<ul> <li>Fake material supply identification, assessment and control.</li> </ul>
	<ul> <li>Environmental codes of practice with regard to materials evaluation and selection safety</li> </ul>
Underpinning Skills	<ul> <li>Evaluate, select and monitor materials and processes.</li> </ul>
	<ul> <li>Identify and remove potential workplace hazards.</li> </ul>
	<ul> <li>Keep records, for material evaluation and selection</li> </ul>
	<ul> <li>Plan and organize work arrangements.</li> </ul>
	<ul> <li>Assessing, identifying, and controlling fake materials supply</li> </ul>
Resource Implications	Access is required to real or appropriately simulated
	situations, including work areas, materials and equipment,
	and to information on workplace practices and OHS
Mathada of Assassins and	practices.
Methods of Assessment	Competence may be assessed through:
	Interview / Written Test     Observation / Demonstration with Oral Questioning
Context of Assessment	Observation / Demonstration with Oral Questioning     Competence may be assessed in the work place or in a
Context of Assessment	Competence may be assessed in the work place or in a simulated work place setting.

Page 53 of 78	Ministry of Education Copyright	Rubber Tree Latex Harvesting & Processing Management Ethiopian Occupational Standard	Version 1 June 2016
---------------	------------------------------------	--	------------------------

Occupational Standard: Rubber Tree Latex Harvesting & Processing Managemen	
	Level V
Unit Title	Prepare and Monitor Budgets and Financial Reports
Unit Code	IND LPM5 11 0616
Unit Descriptor	This competency standard covers the process of preparing budgets and financial reports, and the implementation and monitoring of budgets in agricultural, horticultural or land management enterprise. Work is likely to be undertaken alone or under limited guidance in line with a broad plan, budget or strategy. Responsibility and defined accountability for the work of others may be involved. Competency involves the self-directed development of knowledge with substantial depth across a number of areas with a range of skills. Competencies are usually used independently and are substantially non-routine. Significant judgment is required in planning design, technical or supervisory functions related to products, services, operations or processes.

Element	Performance Criteria
1. Prepare a budget	Information on past receipts and payments is obtained from previous records, compared to current prices and cost trends, and compiled in a form that enables projections of future receipts and expenditures.
	1.2 A plan is prepared for a period which allows for expected
	1.3 Expenditure and financial reporting requirements, using the 'most likely' prices/ <b>budget</b> and costs.
Implement and monitor a budget	2.1 Receipts and payments are monitored and reconciled against the original budget.
	2.2 Variances against the original plan are identified, and the impact on overall profit/loss and cash flow is calculated.
	2.3 Accordance with budget objectives and parameters.
	2.4 Adjustments are made where necessary to respond to unacceptable variations.
	2.5 Budgets and plans are renegotiated/restructured where necessary to optimize enterprise performance.
Prepare financial reports	3.1 <b>Records</b> of financial performance are properly maintained within enterprise systems.
	3.2 Information with source documents is assembled according to the requirements of the <i>report recipients</i> .

Page 54 of 78	Ministry of Education Copyright	Rubber Tree Latex Harvesting & Processing Management Ethiopian Occupational Standard	Version 1 June 2016	
---------------	------------------------------------	--	------------------------	--

3.3 Documentation is forwarded in a timely and efficient manner.
3.4 <b>Non-financial objectives</b> are reported in the context of overall enterprise performance.

Variable	Range	
Budget	May include recurrent operating or project based funds.	
Records	May include:	
	Paper or computer based.	
Report recipients	May include:	
	<ul> <li>Taxation Commissioner, financing agencies, boards of management, committees, councils, and executive management.</li> </ul>	
Non-financial objectives	May include environmental, OHS, quality assurance, market share, or other key result area.	

Evidence Guide	
Critical Aspects of Competence	<ul> <li>A candidate must be able to demonstrate the ability to:         <ul> <li>Collect, analyze and organize information through monitoring of budget performance</li> <li>Prepare a budget</li> <li>Implement and monitor a budget</li> <li>Prepare financial reports that financial reports meet industry or enterprise standards in their content and structure</li> <li>Communicate ideas and information through preparation of budgets and financial reports.</li> </ul> </li> </ul>
Underpinning Knowledge and Attitudes	Demonstrates knowledge of:  • budget formulation  • financial information systems  • business transactions  • banking and reconciliation  • standards for organizational recordkeeping and audit  • requirements
Underpinning Skills	<ul> <li>Demonstrate to:</li> <li>prepare a budget</li> <li>implement and monitor a budget</li> <li>Prepare financial reports.</li> <li>Communicate ideas and information through preparation of budgets and financial reports.</li> <li>Collect, analyze and organize information through monitoring of budget performance.</li> <li>Plan and organize activities through consultation with others in preparation and monitoring of budgets.</li> </ul>

Page 55 of 78	Ministry of Education Copyright	Rubber Tree Latex Harvesting & Processing Management Ethiopian Occupational Standard	Version 1 June 2016
---------------	------------------------------------	--	------------------------

	<ul> <li>Work with others and in teams to review budget performance.</li> <li>Use mathematical ideas and techniques through measuring budget performance, calculating variances and presenting outcomes.</li> <li>Solve problems through identifying and addressing budget irregularities and non-compliance.</li> </ul>
Resource Implications	Access is required to real or appropriately simulated
	situations, including work areas, materials and equipment, and to information on workplace practices and OHS practices.
Methods of	Competence may be assessed through:
Assessment	Interview / Written Test
	<ul> <li>Observation / Demonstration with Oral Questioning</li> </ul>
Context of Assessment	Competence may be assessed in the work place or in a simulated work place setting.

Occupational Standard	: Rubber Tree Latex Harvesting & Processing Management Level V
Unit Title	Manage Trial and/or Research Material
Unit Code	<u>IND LPM5 12 0616</u>
Unit Descriptor	This competency standard covers the process of managing a trial and/or research materials as part of a designated research project. It requires the ability to define the purpose of the trial and the scope and extent of the work, oversee management of trial/research materials, collate data, and complete reports. Managing trial and/or research materials requires knowledge of scheduling and programming work within timelines, data collection and reporting, research procedures and best practice techniques, and enterprise work team management guidelines. It will also require specialist knowledge related to the area of research.

Element	Performance Criteria
Identify scope and extent of work	1.1 Trial/research hypothesis and parameters are identified according to researcher's requirements.
	1.2 Trial/research is planned to meet <i>research objectives</i> .
	1.3 Data relevant to managing trial/research materials is assessed according to research parameters.
	1.4 <b>Data</b> relevant to managing trial/research materials is assessed according to enterprise policy.
	1.5 OHS <i>hazards</i> associated with managing trial/research materials are identified, risks assessed, and <i>controls</i> developed according to enterprise guidelines, coasted and documented in the survey design.
	1.6 <b>Tools, equipment and machinery</b> required for managing trial/research materials are identified, coasted, and availability confirmed with suppliers, contractors and appropriate personnel.
	1.7 Research design is determined according to the trial/research plan.
2. Oversee management of trial/research materials	2.1 Trial/research is prepared, maintained and monitored according to project parameters.
	2.2 Field work is conducted to verify and collect data according to the trial/research design and research parameters.
	2.3 Work activities are monitored for accuracy, validity and compliance to the parameters of the trial/research design.
	Rubber Tree Latex Harvesting & Processing

Page 57 of 78	Ministry of Education Copyright	Management Ethiopian Occupational Standard	Version 1 June 2016
---------------	------------------------------------	--	------------------------

	2.4 Staged data collection is undertaken according to trial/research design, scheduling and access requirements.
	2.5 Monitoring and data is recorded faithfully, promptly and accurately according to the specifications of the trial/research design.
Prepare reports on work completed	3.1 Collected data is recorded according to trial/research requirements and guidelines
	3.2 Data is statistically analyzed to determine significance of research results.
	3.3 Hypothesis is accepted or rejected based on data collected.
	3.4 Reports are produced which conform to the structure and content required by the researcher.

Variable	Range
Research objectives	May include:  • The full range of research questions investigated by agricultural and horticultural researchers. More common areas will include monitoring and assessing the performance or characteristics of plants or animals, although work may also involve allied areas such as soil, chemical and irrigation research.
Data	<ul> <li>May include:</li> <li>Written or oral records, existing studies, and local and government policy.</li> <li>Data may also relate to human intervention (such as clearance,</li> <li>cultivation, grazing, settlements, re-vegetation), landscape</li> <li>degradation (such as salinity, accelerated wind and water</li> <li>erosion, edge die-back, species depletion), pest plant populations, pest animal activity, and animal and plant</li> <li>Production.</li> </ul>
Hazards	<ul> <li>May include:</li> <li>solar radiation, fire hazard air-, soil- and waterborne microorganisms, chemicals, other communicable disease and hazardous substances, sharp hand tools and equipment, manual handling, slippery and uneven surfaces, and moving</li> </ul>
Controls	<ul> <li>May include:</li> <li>Controls should be introduced according to enterprise</li> <li>OHS policies and procedures and may include identifying</li> </ul>

Page 58 of 78	Ministry of Education Copyright	Rubber Tree Latex Harvesting & Processing Management Ethiopian Occupational Standard	Version 1 June 2016
---------------	------------------------------------	--	------------------------

	hazards; assessing and reporting risks; cleaning, maintaining and storing tools, equipment and machinery; appropriate use of personal protective equipment including sun protection; safe operation of tools, equipment and machinery; safe handling, use and storage of chemicals and hazardous substances; correct manual handling; basic first aid available on site; personal hygiene, and reporting problems to managers.
Tools, equipment and	May include:
machinery	Computers and appropriate software, photographic equipment,
	<ul> <li>potentiometer, tape measure, flagging tape, site or district maps, compass, recording implements, survey point markers and drivers, Global Positioning System (GPS), specimen bags, secateurs, leaf tissue collection</li> </ul>
Constraints	May include:
	Financial, time, scheduling, labour availability, seasonal, and government legislation and regulations.
Ethical issues	May include:
	Those relating to rubber tree plantation, environmental and ethical practice in informing other parties of the research in process, or be concerned with intellectual property.
Clients	May include:
	<ul> <li>The enterprises management or a private individual, company, community group, government agency, or a combination of these entities.</li> </ul>
Data collection	May include:
Processes	the employment of staged visual assessments and checklists, photo points, aerial photography, plant/animal sampling, transect plant or associated animal counts, surveys and questionnaires, and examination of aerial or other existing photographs.

<b>Evidence Guid</b>	de		
Critical Aspects of Competence A candid project resea comm		date must be able to demonstrate the ability to: fy, manage and monitor materials for a research et, and collect appropriate data requirements to rch project requirements. funicate and negotiate orally and in writing with the	
• c		researcher, enterprise staff, managers and consultants calculate the cost requirements of managing trial/research materials produce written reports	
		see management of trial/research materials ply with legislative requirements.	
Oomp			
Page 59 of 78	Ministry of Educati Copyright	Rubber Tree Latex Harvesting & Processing  Management  Ethiopian Occupational Standard  Version 1  June 2016	

	<ul> <li>Collect, analyze and organize information according to research project guidelines.</li> </ul>
	plan and organize activities to effectively manage materials
Underpinning	Demonstrates knowledge of:
Knowledge and	communication with the researcher, enterprise staff,
Attitudes	managers and consultants
	identifying scope and extent of work
	calculate the cost requirements of managing trial/research materials
	writing reports
	managing of trial/research materials
	Identifying legislative requirements.
	Organizing information.
	Planning and organizing activities.
	Measuring quantities, distances and times, calculating
	areas, resources, costs, and prepare reports.
	<ul> <li>using technology to record, store and communicate ideas</li> </ul>
	and information
Underpinning Skills	Demonstrate skills to:
	communicate and negotiate orally and in writing with the
	researcher, enterprise staff, managers and consultants
	identify scope and extent of work
	<ul> <li>calculate the cost requirements of managing trial/research materials</li> </ul>
	produce written reports
	oversee management of trial/research materials
	Comply with legislative requirements.
	<ul> <li>Collect, analyze and organize information according to research project guidelines.</li> </ul>
	<ul> <li>Plan and organize activities to effectively manage materials and accurately obtain objective data.</li> </ul>
	Use mathematical ideas and techniques to measure
	quantities, distances and times, calculate areas, resources,
	costs, and prepare reports.
	Use technology to record, store and communicate ideas
December Installed	and information consistently, reliably and accurately.
Resource Implications	Access is required to real or appropriately simulated
	situations, including work areas, materials and equipment,
Methods of Assessment	and to information on workplace practices and OHS practices.  Competence may be assessed through:
INICTIONS OF ASSESSINGIN	Interview / Written Test
	Observation / Demonstration with Oral Questioning
Context of Assessment	Competence may be assessed in the work place or in a
Contoxt of Accessine III	simulated work place setting.
	Rubber Tree Latey Harvesting & Processing

Page 60 of 78	Ministry of Education Copyright	Rubber Tree Latex Harvesting & Processing Management Ethiopian Occupational Standard	Version 1 June 2016
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Occupational Standard: Rubber Tree Latex Harvesting & Processing Management	
	Level V
Unit Title	Monitor and Review Business Performance
Unit Code	IND LPM5 13 0616
Unit Descriptor	This competence standard covers the functions associated with identifying and reviewing the business performance of rubber tree latex harvesting. It requires analyzing and assessing market conditions and business data to determine the suitability of the business operational structures and the overall potential of the business. It requires an awareness of economic and accounting analysis methods. This work would be undertaken independently, and in some circumstances under broad supervision.

Element	Performance Criteria
Evaluate commercial performance	1.1 <b>Data</b> relating to <b>enterprise</b> performance is gathered and analyzed to identify <b>historical</b> and current performance.
	1.2 Operational structures are reviewed and analyzed to determine the suitability of organizational processes to enterprise objectives.
	1.3 Enterprise strengths and weaknesses are evaluated against market conditions to determine current and future capacities.
	1.4 Enterprise objectives are evaluated to identify variations and scope for future development.
Allocate and co- ordinate business resources	2.1 Roles and responsibilities of personnel are identified and communicated.
100001000	2.2 Resource requirements for enterprise are identified and coasted using <b>standard financial analysis techniques</b> .
	2.3 Costs of ensuring <b>sustainability of enterprise</b> operations are calculated and factored into business planning for the enterprise.
Identify performance requirements	3.1 <b>Performance indicators</b> are developed and are realistic within available timeframes and resources.
	3.2 Factors inhibiting performance against objectives are identified and minimized.
	3.3 Market conditions are monitored and assessed based on relevant data and assumptions that are transferable and justifiable.

Page 61 of 78	Ministry of Education Copyright	Rubber Tree Latex Harvesting & Processing Management Ethiopian Occupational Standard	Version 1 June 2016
---------------	------------------------------------	--	------------------------

	3.4 Strategies and programs to promote the sustainability of operations are prepared and incorporated into enterprise procedures.
Review business performance	4.1 Enterprise operations are regularly reviewed to identify opportunities for improvements in performance.
	4.2 Impact of <i>natural conditions</i> on enterprise are monitored and anticipated to assess <i>sustainability of resource</i> use.
	4.3 Costs and estimates are compared with resource allocation.
	4.4 Operational plans are reviewed to determine schedule of activities.

Variable		Range			
Data		May incl	ude:		
		<ul> <li>Sales</li> </ul>	Sales data, expected revenues, expenditures, attributable		
		Costs, market share figures, trends in consumer			
		purchases, borrowing costs, transport costs and delivery times.			
Enterprise			ude those engaged in rubber tree plant	ation and	
			ment, latex harvesting, landscaping and		
		nurserie	, ,		
Historical		May incl	ude:		
		record	all, fertilizer, stocking rates, soil tests, m ls, financial, enterprise plans and enterp ction records.		
Operational st	ructures	May include:			
		Management process, reporting arrangements, decision			
		making			
		Authorities, financial accounting procedures, promotional			
		activities, and operational resources.			
Strengths and		May incl			
weaknesses		marke	ding systems, work practices, attitudes of profile, and debt to equity ratios, asse ctivity.	•	
Market condition	ns	May incl	•		
		Product and service demand, availability of funds, cost of			
			financing, supplier costs, delivery constraints, availability of		
		substitutes and competitors.			
		May incl			
analysis techniques		Cost benefit analysis, 'what if' analyses, time series and			
		trend, expenditure and revenue ratios, break-even			
		analys	sis, accounting standards and cash flow	schedules.	
Page 62 of 78	Ministry of Copy		Rubber Tree Latex Harvesting & Processing Management Ethiopian Occupational Standard	Version 1 June 2016	

Sustainability	May include:
of enterprise	Sustainable enterprises are economically viable
	enterprises that may be operated for an indefinite period
	without degrading natural resources.
Performance indicators	May include:
	Sales targets, revenue estimates, waste reduction, erosion
	Replacement and reversal, environmental sustainability,
	variable cost ratios, investment returns, and diversification.
Natural conditions	May include rainfall, soil erosion patterns, salinity, weather
	patterns (frost, fog), geographical aspect (sun), native
	vegetation, windbreaks, distance, natural pasture, water
	supply, and topography.
Sustainable resource	For example, where applicable, the use of, intercropping,
practices	bee farming, and others.

Evidence Guide		
Critical Aspects of Competence	<ul> <li>A candidate must be able to demonstrate the ability to:</li> <li>Research, collate and manipulate business data in order to develop and present an image of the operations of rural businesses.</li> <li>Forecast and estimate resource use and determining opportunity costs.</li> <li>Identify and track the effects of natural conditions on economic performance.</li> </ul>	
Underpinning Knowledge and Attitudes	Demonstrates knowledge of:  rates of return for products and/or services  financial analysis techniques  structure and operation of small businesses  relevant OHS legislative requirements  environmental conditions, positive environmental practices and negative impact minimization measures  human resource requirements for the enterprise  transport requirements for the enterprise  Enterprise/property improvement requirements.  In addition, where applicable to the activities of the enterprise:  market performance in commodities  statutory marketing requirements  Regulations related to exports of natural rubber product.	
Underpinning Skills	Demonstrate skills to:      analyze market requirements     match the enterprise to resources     set enterprise objectives and make financial and economic determinations	

Page 63 of 78 Ministry of Education Copyright	Rubber Tree Latex Harvesting & Processing  Management  Ethiopian Occupational Standard	Version 1 June 2016	
---	--	------------------------	--

Resource Implications	<ul> <li>monitor and manage resources (human, physical, environmental)</li> <li>evaluate land capability and natural resources (where applicable to the enterprise)</li> <li>research, analyze and evaluate enterprise information and requirements</li> <li>communicate orally to present information to and negotiate with management or clients</li> <li>document plans and write reports</li> <li>Calculate and forecast financial and economic data.</li> <li>Access is required to real or appropriately simulated</li> </ul>
	situations, including work areas, materials and equipment, and to information on workplace practices and OHS practices.
Methods of Assessment	Competence may be assessed through:
	Interview / Written Test
	<ul> <li>Observation / Demonstration with Oral Questioning</li> </ul>
Context of Assessment	Competence may be assessed in the work place or in a simulated work place setting.

Occupational Standard:	Occupational Standard: Rubber Tree Latex Harvesting & Processing Management	
	Level V	
Unit Title	Manage Project Quality	
Unit Code	IND LPM5 14 0616	
Unit Descriptor	This unit specifies the outcomes required to manage quality within projects. It covers determining quality requirements, implementing quality assurance processes, and using review and evaluation to make quality improvements in current and future projects.	

Elements		Perform	ance Criteria	
Determine quality requirements		with i proje	lity objectives, standards and levels are nput from stakeholders and guidance out authority, to establish the basis for quality management plans	f a higher uality
		and t	olished <i>quality management methods</i> tools are selected and used to determinate of quality, capability, cost and time.	
		1.3 Quality criteria are identified, agreed with a higher project authority and communicated to stakeholders to ensure clarity of understanding and achievement of quality and overall project objectives.		
		plan a	ed quality requirements are included in and implemented as basis for performa surement.	
Implement quassurance	2. Implement quality assurance		Ilts of project activities and product performed and documented throughout the part to determine compliance with agreed dards.	project life
		consi recor	es of unsatisfactory results are identifie ultation with the client, and appropriate mmended to a higher project authority to nuous improvement in quality outcomes	actions are o enable
		result	ections of quality processes and <i>quality</i> ts are conducted to determine compliandards to overall quality objectives.	
		2.4A quality management system is maintained to enable effective recording and communication of quality issues and outcomes to a higher project authority and stakeholders.		
3. Implement project quality improvements		imple	esses are reviewed and agreed change emented continually throughout the proje sure continuous improvement to quality	ect life cycle
Page 65 of 78	Ministry of Copy		Rubber Tree Latex Harvesting & Processing Management Ethiopian Occupational Standard	Version 1 June 2016

3.2 Project outcomes are reviewed against performance criteria to determine the effectiveness of quality management processes and procedures.
3.3 Lessons learned and recommended <i>improvements</i> are identified, documented and passed to a higher project authority for application in future projects.

Variable	Range
Quality objectives	May include but not limited to:
	<ul> <li>requirements from the client and other stakeholders</li> </ul>
	<ul> <li>requirements from a higher project authority</li> </ul>
	<ul> <li>negotiated trade-offs between cost, schedule and</li> </ul>
	performance
	<ul> <li>those quality aspects which may impact on customer</li> </ul>
	satisfaction
Quality management	May include but not limited to:
plan	established processes
	<ul> <li>authorizations and responsibilities for quality control</li> </ul>
	quality assurance and continuous improvement
Quality management	May include but not limited to:
methods, techniques	brainstorming
and	benchmarking
tools	charting processes
	ranking candidates
	defining control
	<ul> <li>undertaking benefit/cost analysis</li> </ul>
	<ul> <li>processes that limit and/or indicate variation</li> </ul>
	control charts
	flowcharts
	histograms
	pareto charts
	scatter gram and run charts
Quality control	May include but not limited to:
	<ul> <li>monitoring conformance with specifications</li> </ul>
	<ul> <li>recommending ways to eliminate causes of unsatisfactory</li> </ul>
	<ul> <li>performance of products or processes</li> </ul>
	<ul> <li>monitoring of regular inspections by internal or external</li> </ul>
	agents
Improvements	May include but not limited to:
	<ul> <li>formal practices, such as total quality management or</li> </ul>
	continuous improvement
	<ul> <li>improvement by less formal processes which enhance</li> </ul>
	both the product quality and processes of the project, for

Page 66 of 78	Ministry of Education Copyright	Rubber Tree Latex Harvesting & Processing Management Ethiopian Occupational Standard	Version 1 June 2016
---------------	------------------------------------	--	------------------------

example client surveys to determine client satisfaction with
project team performance

Evidence Guide	
Critical Aspects of	Demonstrates skills and knowledge in:
Competence	<ul> <li>lists of quality objectives, standards, levels and measurement criteria</li> </ul>
	<ul> <li>records of inspections, recommended rectification actions and quality outcomes</li> </ul>
	<ul> <li>management of quality management system and quality management plans</li> </ul>
	application of quality control, quality assurance and continuous improvement processes
	records of quality reviews
	<ul> <li>lists of lessons learned and recommended improvements</li> <li>how quality requirements and outcomes were determined for projects</li> </ul>
	<ul> <li>how quality tools were selected for use in projects</li> <li>how team members were managed throughout projects with respect to quality within the project</li> </ul>
	<ul> <li>how quality was managed throughout projects</li> </ul>
	<ul> <li>how problems and issues with respect to quality and</li> </ul>
	arising during projects were identified and addressed
	<ul> <li>how projects were reviewed with respect to quality management</li> </ul>
	<ul> <li>how improvements to quality management of projects have been acted upon</li> </ul>
Underpinning	Demonstrates knowledge of:
Knowledge and Attitudes	<ul> <li>the principles of project quality management and their application</li> </ul>
	<ul> <li>acceptance of responsibilities for project quality management</li> </ul>
	use of quality management systems and standards
	<ul> <li>the place of quality management in the context of the project life cycle</li> </ul>
	appropriate project quality management methodologies; and their capabilities, limitations, applicability and contribution to project outcomes
	attributes:
	analytical
	attention to detail
	able to maintain an overview
	communicative and positive leadership

Page 67 of 78	Ministry of Education Copyright	Rubber Tree Latex Harvesting & Processing Management Ethiopian Occupational Standard	Version 1 June 2016
---------------	------------------------------------	--	------------------------

Underpinning Skills  Resources Implication	<ul> <li>Demonstrate skills of:</li> <li>ability to relate to people from a range of social, cultural and ethnic backgrounds, and physical and mental abilities</li> <li>project and quality management</li> <li>planning and organizing</li> <li>communication and negotiation</li> <li>problem-solving</li> <li>leadership and personnel management</li> <li>monitoring and review skills</li> <li>Access is required to real or appropriately simulated situations, including work areas, materials and equipment, and to information on workplace practices and OHS practices.</li> </ul>
Methods of Assessment  Context of Assessment	Competence may be assessed through:  Interview / Written Test  Observation / Demonstration with Oral Questioning  Competence may be assessed in the work place or in a simulated work place setting.

Occupational Standard	Occupational Standard: Rubber Tree Latex Harvesting & Processing Managemen Level V	
Unit Title	Facilitate and Capitalize on Change and Innovation	
Unit Code	IND LPM5 15 0616	
Unit Descriptor	This unit specifies the outcomes required to plan and manage the introduction and facilitation of change; particular emphasis is on the development of creative and flexible approaches, and on managing emerging opportunities and challenges.	

Elements	Performance Criteria		
Participate in planning the introduction and	1.1 Concept, nature importance and objective of change are understood.		
facilitation of change	1.2 Steps tools and approaches of changes are planned and made in consultation with <i>appropriate stakeholders</i> .		
	1.3 The relationship among innovation, quality, change and cost is understood.		
	1.4 Environments that facilitate the expedition of change are understood.		
	1.5 <b>Change resistance reducing techniques</b> are identified and implemented.		
2. Manage growth and	2.1 <b>Needs for growth</b> are identified.		
transition of	2.2 <i>Growth strategies</i> are identified.		
business	2.3 Selected growth strategies are implemented.		
3 Develop creative	3.1 Concepts, types and nature of problem are understood.		
and flexible approaches and solutions	3.2 Variety of problem solving techniques and approaches are identified and analyzed to manage workplace issues.		
Solutions	3.3 <b>Risks</b> are identified and assessed, and action initiated to manage these to achieve a recognized benefit or advantage to the organization.		
	3.4 Workplace is managed in a way which promotes the development of innovative approaches and outcomes.		
	3.5 Creative and responsive approaches to resource management are used to improve productivity and services, and/or reduce costs.		
4 Manage emerging challenges and	4.1 Future challenges and opportunities are identified in reference to global business situation		
opportunities	4.2 The role of technology and its value additions are explained.		

Page 69 of 78	Ministry of Education Copyright	Rubber Tree Latex Harvesting & Processing Management Ethiopian Occupational Standard	Version 1 June 2016
---------------	------------------------------------	--	------------------------

4.3 Technology and innovation based system is introduced and implemented
4.4 Individuals and teams are supported to respond effectively and efficiently to changes in the organization's goals, plans and priorities.
4.5 Coaching and mentoring are made to assist individuals and teams to develop competencies to handle change efficiently and effectively.
4.6 Opportunities are identified and taken as appropriate to make adjustments and respond to the changing needs of customers and the organization.
4.7 Information needs of individuals and teams are anticipated and facilitated as part of change implementation and management.
4.8 Recommendations are identified, evaluated and negotiated for improving the methods to manage change with appropriate individuals and groups.

Variables	Range
Appropriate	May include but not limited to:
stakeholders	<ul> <li>Organization directors and other relevant managers</li> </ul>
	Teams and individual employees who are both directly
	and indirectly involved in the proposed change
	Union/employee representatives or groups
	OHS committees
	Other people with specialist responsibilities
	<ul> <li>External stakeholders where appropriate - such as clients,</li> </ul>
	suppliers, industry associations, regulatory and licensing
	agencies
Change resistance	May include but not limited to:
reducing techniques	Education and communication
	Participation and involvement
	Facilitation and support
	Negotiation and agreement
	Manipulation and cooptation
	Explicit and implicit coercion
Needs for growth	May include but not limited to:
	Survival
	Economies of scale
	Expansion of market
	Owners mandate
	Technology

Page 70 of 78	Ministry of Education Copyright	Rubber Tree Latex Harvesting & Processing Management Ethiopian Occupational Standard	Version 1 June 2016
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	Government policy and Self sufficiency	
Growth Strategies	May include but not limited to:	
	Franchising	
	Outsourcing	
	Sub-contracting and Merging	
Risks	May include but not limited to:	
	Financial and non-financial risks	
Information needs	May include but not limited to:	
	<ul> <li>New and emerging workplace issues</li> </ul>	
	<ul> <li>Implications for current work roles and practices including training and development</li> </ul>	
	<ul> <li>Changes relative to workplace legislation, such as OHS, workplace data such as productivity, inputs/outputs and future projections</li> </ul>	
	Planning documents	
	Reports	
	Market trend data	
	<ul> <li>Scenario plans and customer/competitor data</li> </ul>	

Evidence Guide		
Critical Aspects of Competence	<ul> <li>Demonstrates skills and knowledge to:</li> <li>Participate in planning the introduction and facilitation of change</li> <li>Manage growth and transition of business</li> <li>Develop creative and flexible approaches and solutions</li> </ul>	
Underpinning	<ul> <li>Manage emerging challenges and opportunities</li> <li>Demonstrate knowledge of:</li> </ul>	
Knowledge and Attitudes	<ul> <li>Relevant legislation from all levels of government that affects business operation, especially in regard to occupational health and safety and environmental issues, equal opportunity, industrial relations and anti- discrimination</li> </ul>	
	<ul> <li>Growth strategies</li> <li>The principles and techniques involved in:         <ul> <li>Change and innovation management</li> <li>Development of strategies and procedures to implement and facilitate change and innovation</li> </ul> </li> <li>Use of risk management strategies:         <ul> <li>Identifying hazards,</li> <li>Assessing risks and implementing risk control measures</li> <li>Problem identification and resolution</li> </ul> </li> </ul>	
	<ul><li>Leadership and mentoring techniques</li><li>Management of quality customer service delivery</li></ul>	

I Page / Lot /8 I 🚅	of Education opyright	Rubber Tree Latex Harvesting & Processing  Management  Ethiopian Occupational Standard	Version 1 June 2016	
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	<ul> <li>Consultation and communication techniques</li> <li>Record keeping and management methods</li> <li>The sources of change and how they impact</li> <li>Factors which lead/cause resistance to change</li> <li>Approaches to managing workplace issues</li> </ul>	
Underpinning Skills	Demonstrate skills on:	
	Communication, Planning, Managing and team works	
Resources Implication	Access is required to real or appropriately simulated situations, including work areas, materials and equipment, and to information on workplace practices and OHS practices.	
Methods of Assessment	Competence may be assessed through:	
	Interview / Written Test	
	<ul> <li>Observation / Demonstration with Oral Questioning</li> </ul>	
Context of Assessment	Competence may be assessed in the work place or in a simulated work place setting.	

Occupational Standard: Rubber Tree Latex Harvesting & Processing Management Level V	
Unit Title	Manage Continuous Improvement Process (Kaizen)
Unit Code	<u>IND LPM5 16 0616</u>
Unit Descriptor	This unit describes the performance, outcomes, knowledge, attitude and skills required to sustain and develop an environment in which continuous improvement, innovation and learning are promoted, rewarded and managed.

Elements	Performance Criteria
Diagnose the current status.	1.1 <i>Parameters</i> used for study current situation are obtained.
	1.2 Internal and external environment is analyzed.
	1.3 Problems related to targeted environment is recognized and identified.
	1.4 Problems regarding to current situation are analyzed.
	1.5 Alternatives are generated.
	1.6 Best alternatives are selected.
2. Design an effective continuous	2.1 The values, mission and goals of kaizen management system are clarified.
improvement process (kaizen).	2.2 The <b>kaizen management template</b> and a visual management logo full of purpose and meaning are developed.
	2.3 A clear action strategy (master and detailed plans) is defined.
	2.4 The most effective and proven <i>kaizen tools</i> are chosen and applied.
	2.5 A practical way is identified to involve all employees in <i>Gemba activities</i> (top, middle and bottom).
3. Develop change	3. 1. Kaizen Promotion Team Structure is developed.
capability.	3. 2. The Kaizen Training Plan is defined and started.
	3. 3. Supervisors' kaizen capability and habits are developed.
	3. 4. Key people are developed in terms of <i>Individual leadership capability</i> .
Implement improved processes.	4.1 <b>Sustainability/continuous improvement</b> are promoted as an essential part of doing business.

Page 73 of 78	Ministry of Education Copyright	Rubber Tree Latex Harvesting & Processing Management Ethiopian Occupational Standard	Version 1 June 2016	
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	4.2 Impacts of change and consequences are addressed for people, and transition plans implemented.
	4.3 Objectives, time frames, measures and communication plans are ensured in place to manage implementation.
	4.4 Contingency plans are implemented in the event of non-performance.
	4.5 Failure is followed-up by prompt investigation and analysis of causes.
	4.6 Emerging challenges and opportunities are managed effectively.
	4.7 Continuous improvement systems and processes are evaluated regularly.
	4.8 Improvements are communicated to all relevant groups and individuals.
	4.9 Opportunities are explored for further development of value stream improvement processes.
5. Establish direction	5.1 A system audit tool is defined and implemented.
and control.	5.2 The kaizen management system is deployed across all company levels and functions.
	5.3 Results are checked and corrections made.
	5.4 Standard operating procedures are developed and maintained.
	5.5The recruit, training and evaluation systems are improved and <i>HR practices</i> compensated.

Variables	Range
Parameters	May include but not limited to:  Working condition  Resources may include:  Human  Material  Machine  Kaizen elements
Kaizen management template	May include but not limited to:  ■ Visual management board for:  ■ displaying characteristic figures, data and graphics  ■ depicting and controlling processes  ■ identifying and marking sources of risks, setting and standards

Page 74 of 78 Minis	Stry of Education Copyright	ubber Tree Latex Harvesting & Processing  Management  Ethiopian Occupational Standard	Version 1 June 2016
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	displaying company's values and goals of kaizen
Kaizen tools	May include but not limited to:
	5S (a visual workplace management)
	7 QC tools( Cause and Effect Diagram, Check Sheet ,
	Pareto Diagram, Histogram, Scatter Diagram, Control
	Chart and Flow Chart )
	Brainstorming
	Basic Industrial Engineering (IE) tools such as time study,
	motion study, line balancing, work sampling
	JIT(JUST IN TIME principles)
	MUDA identification and elimination tools
	Kanban
	Poka-yoke
	Takt- time
Gemba activities	May include but not limited to:
	Value-adding activities to satisfy the customer
	Employee autonomous operations (participating in team
	to identify nonconformity, propose solutions and
	implement them autonomously)
Individual leadership	May include but not limited to:
capability	Personal and interpersonal skills
	Courage
	Honour and integrity
	Energy and drive
	Strategic skills
0 1 1 1 11 / 11	Operating and Organizational positioning skills
Sustainability/continuou	May include but not limited to:
s improvement	Improvements made by following PDCA (Plan, Do, Check
	and Act) cycle for:
	> Improvements in one's own work
	<ul> <li>Saving in energy, material and other resources</li> <li>Improvements in the working environment</li> </ul>
	<ul> <li>Improvements in the working environment</li> <li>Improvements in machines and processes</li> </ul>
	<ul> <li>Improvements in flacilities and processes</li> <li>Improvements in jigs and tools</li> </ul>
	<ul> <li>Improvement in office work</li> </ul>
	<ul> <li>Improvements in product quality</li> </ul>
	Ideas for new products
	Customers services and customer relations
System audit tool	May include but not limited to:
	5S audit
	Patrol system
	Kaizen board
	5M check lists AND Key Performance Indicators (KPIs)

Page 75 of 78	Ministry of Education Copyright	Rubber Tree Latex Harvesting & Processing Management Ethiopian Occupational Standard	Version 1 June 2016	
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Standard operating procedure	<ul> <li>May include but not limited to:</li> <li>Administrative standards for:</li> <li>Managing the business</li> <li>Administration</li> <li>Personnel Guidelines</li> <li>Job Descriptions</li> <li>Guidelines for preparing cost information</li> <li>Operation standards for:</li> <li>Describing the way a job is done.</li> <li>Help realising Quality, cost, delivery.</li> <li>Addressing the need to satisfy customers.</li> <li>Using the process that's the best.</li> <li>Producing work in the most cost effective manner.</li> <li>Assuring total quality for the customer.</li> </ul>
HR practices	<ul> <li>May include but not limited to:</li> <li>Resources may include:         <ul> <li>Recruit and retain high quality people with innovative skills and a good track, record in innovation</li> </ul> </li> <li>HR development is used for:         <ul> <li>strategic capability and provide encouragement and facilities for enhancing innovating skills and enhancing the intellectual capital of the organization</li> </ul> </li> <li>Reward will:         <ul> <li>Provide financial incentives and rewards and recognition for successful innovation</li> </ul> </li> </ul>

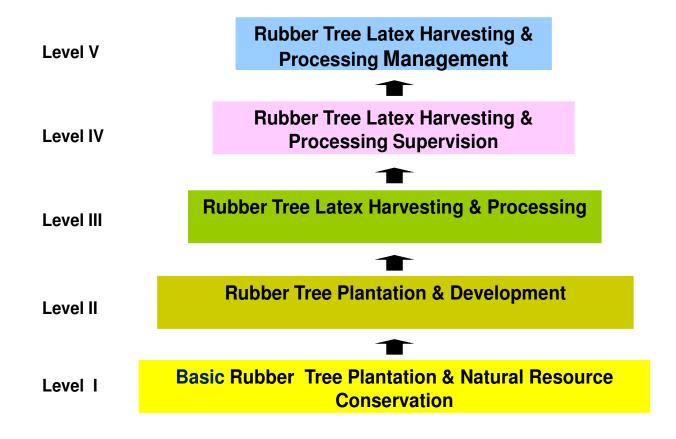
Evidence Guide		
Critical Aspects of Assessment	<ul> <li>Demonstrates skills and knowledge competencies to:</li> <li>Establish policy and cross-functional goals for kaizen</li> <li>Deploy and implement goals as directed through policy deployment and cross-functional management.</li> <li>Realize goals through deployment and audits.</li> <li>Build systems, procedures, and structures conducive to kaizen.</li> <li>Use kaizen in functional capabilities.</li> <li>Introduce Kaizen as a corporate strategy</li> <li>Provide support and direction between allocating resources</li> <li>Establish, maintain and upgrade standards.</li> <li>Make employees conscious through training programs.</li> <li>Assist employees develop skills and tools for problem solving.</li> </ul> Demonstrates knowledge of:	
Underpinning Knowledge and Attitude	Demonstrates knowledge of:	
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	Quality management and continuous improvement
	theories
	creativity/innovation theories/concepts
	competitive systems and practices tools, including:
	> 5S
	➤ JUST IN Time (JIT)
	mistake proofing
	process mapping
	establishing customer pull
	setting of KPIs/metrics
	> SOP
	Kaizen elements/targets.
	identification and elimination of waste/MUDA
	continuous improvement processes including
	implementation, monitoring and evaluation strategies
	for a whole organization and its value stream
	Difference between breakthrough improvement and
	continuous improvement
	organizational goals, processes and structure
	approval processes within organization
	methods of determining the impact of a change
	customer perception of value
	Define, Measure, Analyze, Improve and Control
	(DMAIC) to sustain process
Underpinning Skills	Demonstrates Skills to:
	Use leadership skills to foster a commitment to quality and
	openness to improvement.
	Analyze training needs and implementing training
	programs
	Prepare and maintain quality and audit documentation
	Undertake self-directed problem solving and decision-
	making on issues of a broad and/or highly specialized
	nature and in highly varied and/or highly specialized
	contexts
	Communicate at all levels in the organization and to
	audiences of different levels of literacy and numeracy
	Analyze current state/situation of the organization.
	Analyze individually and collectively the implementation of
	competitive systems and practices tools in the
	organization and determining strategies for improved
	implementation
	Solve highly varied and highly specialized problems
	related to competitive systems and practices
	implementation and continuous improvement to root
	cause
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Resources Implication	<ul> <li>Negotiate with stakeholders, where required, to obtain information required for implementation and refinement of continuous improvements, including management, unions, employees and members of the community.</li> <li>Review relevant metrics, including all those measures which might be used to determine the performance of the improvement system, including:         <ul> <li>Key Performance Indicators (KPIs) for existing processes</li> <li>Quality statistics</li> <li>Delivery timing and quantity statistics</li> <li>Process/equipment reliability ('uptime')</li> </ul> </li> <li>Access is required to real or appropriately simulated</li> </ul>	
Treedardee implication	situations, including work areas, materials and equipment, and to information on workplace practices and OHS practices.	
Methods of Assessment	Competence may be assessed through: <ul><li>Interview / Written Test</li><li>Observation / Demonstration with Oral Questioning</li></ul>	
Context of Assessment	Competence may be assessed in the work place or in a simulated work place setting.	

## Sector: INDUSTRY DEVELOPMENT Sub-Sector: RUBBER TREE DEVELOPMENT



Page 79 of 78	Ministry of Education Copyright	Rubber Tree Latex Harvesting & Processing Management Ethiopian Occupational Standard	Version 1 June 2016
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## **Acknowledgement**

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This Occupational Standard was developed on June 2016 at Center of Excellence for Engineering (CEE), Addis Ababa, Ethiopia.

## **COMMENT TEMPLATE**

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