

Model Curriculum for Recognition of Prior Learning (RPL)

Beekeeper

SECTOR: AGRICULTURE & ALLIED
SUB-SECTOR: AGRICULTURE ALLIED ACTIVITY
OCCUPATION: BEE KEEPING
REF ID: AGR/Q5301
NSQF LEVEL: 4

Beekeeper

CURRICULUM / SYLLABUS

This program is aimed at training to Recognition of Prior Learning (RPL) candidates for the job of a "Beekeeper", in the "Agriculture & Allied" Sector/Industry and aims at building the following key competencies amongst the learner

Program Name	Beekeeper		
Qualification Pack Name & Reference ID.	AGR/Q5301		
Version No.	1.0	Version Update Date	
Pre-requisites to Training	No entry level barrier		
Training Outcomes: Orientation and Soft Skill	<p>After completing this programme, participants will be able to:</p> <ul style="list-style-type: none"> • Identify personal strengths and value systems: safe work habits, achievement motivation, time management, anger management, stress management. • Prepare for employment and self-employment: preparing for an interview, effective resume writing, basic workplace terminology. • Illustrate the basics of entrepreneurship and identify new business opportunities • Develop personality and learn general ethics and discipline • Learn about health and safety hazards and hygiene at work place • Learn effective communication skills • Learn about importance of RPL certification and process of assessment 		
Training Outcomes: Bridge Course	<p>After completing this programme, participants will be able to:</p> <ul style="list-style-type: none"> • Understand bee biology and behavior: Types of Bees, Life cycle • Handle beekeeping systems and beekeeping equipments: Bee Keeping Systems/Hives, Installation of Hives, Tools • Beehive Management: Colony Management etc • Manage insects, diseases and nuisances in beehive: • Harvest, process and market the produce: Honey and other byproducts, Method of Harvesting, time of harvesting, tools and equipments required, Processing of products, marketing etc 		

Orientation and Soft Skill Details

Sr. No.	Module	Key Learning Outcomes	Equipment Required
A.	Orientation , General Discipline, doubts/gaps in Domain Training and Health and Safety		
1.	<p>Orientation , General Discipline, doubts/gaps in Domain Training and Health and Safety</p> <p>Theory Duration (hh:mm) 06:00</p> <p>Practical Duration (hh:mm) 00:00</p>	<ul style="list-style-type: none"> • Domain Training (clarifying any doubts/gaps regarding Job Role) • Understanding Qualification Packs, NOS • Understanding about NSQF framework and applied level descriptors • Understand skill development ecosystem, roles of various stakeholders • Recognize the importance of general discipline in the class room (dos and don'ts) • List expectations from the program • Outline the objectives of the RPL and importance of skill and certification • Identify risks to health and safety at the workplace and measures to be taken to control them 	White Board, Marker, Laptop, projector,
B.	Soft Skills and Entrepreneurship Tips specific to the Job Role		
1.	<p>Entrepreneurship</p> <p>Theory Duration (hh:mm) 02:00</p>	<ul style="list-style-type: none"> • Discuss the concept and significance of entrepreneurship and the characteristics of an entrepreneur • List the traits of an effective team and team dynamics • Resolve problems by identifying important problem-solving traits • Discuss how to identify new business opportunities within your business • Follow the entrepreneurial process and explain the entrepreneurship ecosystem • Identify key schemes of the govt. and banks to promote entrepreneurship • Define the relationship between entrepreneurship and risk appetite and entrepreneurship and resilience • Importance of book keeping and accounts management. • Understand market dynamics and value chain of agri products. • Understanding formation of cooperatives, FPO, FPC and enterprise creation 	<p>Laptop, white board, marker and projector,</p> <p>SWOT activity: pen and paper individual exercise, charts, coloured pens, Group Activity: poster making on entrepreneurship ecosystem.</p> <p>Activity: SMART Goal writing</p>

	<p>Personal Strengths and Value Systems</p> <p>Theory Duration (hh:mm) 01:00</p> <p>Practical Duration (hh:mm) 00:00</p>	<ul style="list-style-type: none"> • Self-Improvement, inculcate leadership qualities. • Importance of Discipline in managing small business. • Discuss how to maintain a positive attitude • List your strengths and weaknesses • Describe the importance of honesty in entrepreneurs • Discuss the benefits of time management and applied techniques • Apply tips for anger management and stress management • Effective interpersonal skills, listening and speaking skills. 	<p>Workbook exercises on health standards, Laptop, activity on strengths and weaknesses, white board, marker, projector</p>
	<p>Preparing for Employment and Self-Employment</p> <p>Theory Duration (hh:mm) 01:00</p> <p>Practical Duration (hh:mm) 00:00</p>	<ul style="list-style-type: none"> • Follow the steps to prepare for an interview • Create an effective Resume • Conduct mock interviews • Identify the most frequently asked interview questions and how to answer them 	<p>Laptop, white board, marker, projector, sample CVs, Mock interviews, role plays, role play briefs, FAQs, quiz on basic workplace technologies.</p>
C.	Familiarization with Assessment Process and Terms		
1	<p>Familiarization with Assessment Process and Terms</p> <p>(hh:mm) 02:00</p>	<ul style="list-style-type: none"> • Familiarization about assessment process • Understanding the need of assessment • Preparation tips for assessment • Doubt clearance session 	
	<p>Total Duration:</p> <p>Theory Duration (hh:mm) 12:00</p> <p>Practical Duration (hh:mm) 00:00</p>	<p>Laptop, white board, marker and projector,</p> <p>SWOT activity: pen and paper individual exercise, charts, coloured pens,</p> <p>Group Activity: poster making on entrepreneurship ecosystem.</p> <p>Activity: SMART Goal writing</p>	

Bridge Course Details

This course encompasses 5 out of 5 National Occupational Standards (NOS) of “Beekeeper” Qualification Pack issued by “Agriculture Skill Council of India”.

Sr. No.	Module	Key Learning Outcomes	Equipment Required
1	<p>Introduction</p> <p>Theory Duration (hh:mm) 01:00</p> <p>Practical Duration (hh:mm) 00:00</p> <p>Corresponding NOS Code</p>	<ul style="list-style-type: none"> • Understand the Role of a Bee Keeper and the progression pathway • Get acquainted with the role of bees in Pollination of crops and their importance in increasing crop productivity 	White Board, Marker, Laptop, projector
2	<p>Understand bee biology and behavior</p> <p>Theory Duration (hh:mm) 04:00</p> <p>Practical Duration (hh:mm) 03:00</p> <p>Corresponding NOS Code AGR/N5301</p>	<ul style="list-style-type: none"> • Identify the different Types of Bees <ul style="list-style-type: none"> - Different species of bees - Sub-species of bees - Identify different races of bees - Life span of different bees - Different roles played by different types of honey bee • Life cycle of the different types of Bees • Get acquainted with the communication method used by bees 	White Board, Marker, Laptop, projector,
3	<p>Handle bee-keeping system and bee-keeping tools</p> <p>Theory Duration (hh:mm) 4:00</p> <p>Practical Duration (hh:mm) 04:30</p> <p>Corresponding NOS Code AGR/ N5302</p>	<ul style="list-style-type: none"> • Understand the difference between Traditional and Modern bee keeping systems • Familiarize / Understand with the Bee-keeping system • Identify the tools/ equipments required for the bee keeping 	Marker, Laptop, projector,

Sr. No.	Module	Key Learning Outcomes	Equipment Required
4	<p>Beehive management</p> <p>Theory Duration (hh:mm) 06:00</p> <p>Practical Duration (hh:mm) 08:00</p> <p>Corresponding NOS Code AGR/N5303</p>	<ul style="list-style-type: none"> • Understand the factors to be considered for site selection • Section of Site for Hive installation • Installation of Hives • Manage the Colonies of Bee • Perform the inspection of Colonies • Register and Insure bee-keeping unit • Maintain record keeping • Study the migration of bee colonies 	White Board, Marker, Laptop, projector,
5	<p>Manage insects, diseases and nuisances in beehive</p> <p>Theory Duration (hh:mm) 09:00</p> <p>Practical Duration (hh:mm) 06:00</p> <p>Corresponding NOS Code AGR/N5304</p>	<ul style="list-style-type: none"> • Identify the different types of insects infesting beehive • Understand the characteristics of different insects • Practice the preventive measures/ insect management • Identify the different types of tools/equipments required for insect management • Identify common diseases of bee • Practice the disease preventive measures/ disease management • Identify the different types of tools/equipments required for disease Management • Study the colony collapse disorder • Familiarize with pesticide poisoning of bees • Undertake preventive measures to avoid pesticide poisoning 	White Board, Marker, Laptop, projector,
6	<p>Harvest, process and market the produce</p> <p>Theory Duration (hh:mm) 11:00</p> <p>Practical Duration (hh:mm) 11:30</p>	<ul style="list-style-type: none"> • Get Well versed with the important factors to be considered during harvesting: <ul style="list-style-type: none"> - Time of Harvesting - Method of harvesting - Identify and use the tools/equipments required for harvesting • Extract honey using appropriate procedure • Identify and use the tools required for the process 	White Board, Marker, Laptop, projector, Bee suite, and gloves, smoker, Honey extractor, Bee brush, Hive, uncapping

Sr. No.	Module	Key Learning Outcomes	Equipment Required
	<p>Corresponding NOS Code AGR/N5305</p>	<ul style="list-style-type: none"> • Grade the raw material • Assess the quality of the produce • Understand the shelf-life of the produce • Select the materials required for packaging and storage of the produce • Practice the proper packaging and storage of the processed honey • Harvest Royal Jelly, Propolis , Pollen and Bee venom • Undertake processing, labelling and storage of Royal Jelly, Propolis, Pollen and Bee venom • Undertake mass queen rearing • Identify the market platform for the products and by products • Build up the supply chain • Market the produce 	knife
	<p>Total Duration:</p> <p>Theory Duration (hh:mm) 35:00</p> <p>Practical Duration (hh:mm) 33:00</p> <p>Grand Total Bridge Course Duration: (hh:mm) 68:00</p>	<p>Unique Equipment Required:</p> <p>A box bee hive with a complete colony of bees, Hive uncapping knife, Hive tool, Bee brush, Honey extractor, All personal protective equipment required while handling bees, smoker, Bee suite and gloves, royal jelly extractor, venom extractor, Propolis collector, Pollen Collector, Mass queen rearing kits, grafting needle, queen excluder, queen cage</p>	

Grand Total Course Duration: 12 (Orientation session) + 68 (Bridge Course) = 80 Hours, 0 Minutes