

Syllabus For Aquatic Animal Health Lab Assistant(RPL)

Course Name	Aquatic Animal Health Lab Assistant
Sector	AGRICULTURE
Course Code	AGR/2021/AAHA/053
Level	4 (RPL)
Occupation	Aquatic Animal Health Lab Assistant
Course Duration	Total Duration 65 Hrs (T- 20 , P- 45)
Trainees' Entry Qualification	Class VIII Pass with 5 years experience in the relevant field
Trainers Qualification	Bachelor degree in Fishery science/ Zoology/ Chemistry or equivalent from a recognized University/ Board/ Institute with minimum 2 Years' experience in Fisheries field

Structure of Course:

Module No.	Module name	Theory (Hrs)	Practical (Hrs)	Total (Hrs)
1	Introduction	5	10	15
2	Prepare and maintain work area for labtesting	5	5	10
3	Prepare for carrying out basic laboratory operations	5	25	30
4	Maintain health and safety atwork place	5	5	10
	TOTAL	20	45	65

SYLLABUS:

S n o	Revise Module (Proposed)	Key learning Outcomes	Equipment required
1	Introduction Theory Duration :5 hrs Practical Duration :10 hrs	<ul style="list-style-type: none"> • Understand the role of Aquatic Animal Health Lab Assistant and progression pathways. • Familiarize with the common diseases in fin and shell fishes, health parameters, disease causing agents and prevention methods. • Familiarize with the common microorganisms causing diseases in fishes, maintenance of stock culture, samples and live specimens. • Familiarize with different equipment used in aquatic animal health lab 	Laptop, white board, projector, marker, duster Autoclave, Electronic balance, Magnetic stirrer, Hot air oven, Refrigerator, Freezer Glasswares,Media.
2	Prepare and maintain work area for lab testing Theory Duration:5 hrs Practical Duration:5 hrs	<ul style="list-style-type: none"> • Maintain and clean the work area by using the approve sanitizers/disinfectants and make it dust/germ free • Familiarize with the types of disinfectants/ sanitizers which can be used in aquatic animal health lab and its purpose • Maintain lab equipment, their operation, calibration and cleaning methods. 	Laptop, projector, white board, duster, audio visual aids, sanitizers/disinfectants
3	Prepare for carrying out basic	<ul style="list-style-type: none"> • Maintain lab inventory • Maintain of live specimens, samples 	Laptop, projector, white board, duster. -

S n o	Revise Module (Proposed)	Key learning Outcomes	Equipment required
	laboratory operations Theory Duration :5 hrs. Practical Duration :25 hrs.	and stock cultures <ul style="list-style-type: none"> • Perform basic soil and water quality tests. • Perform sample collection from soil, water, infected fishes/shrimps • Prepare microbiological plates and slants. • Prepare histological slides • Undertake maintenance of cultures and disposal procedures • Make large culture populations of strains • Maintain Experimental animals 	Aquarium, Aerators filters Autoclave, Electronic balance, Refractometer, water and soil quality testing kits -Micro tome.
4	Maintain health and safety at work place Theory Duration 5 hrs Practical Duration 5 hrs	<ul style="list-style-type: none"> • Familiarize with the basic checks before operation of the equipment and its calibration. • Identify different works for which protective clothing is required. • Identify the microbiological hazards and ensure bio-safety levels • Familiarize with the procedures to be followed in emergency situations and necessary actions to be taken • Understand basic first aid procedures • Maintain record data in log books 	White board, projector, marker, duster, First Aid Box, Fire extinguisher, disinfectants, Hand gloves, demonstration on various equipment used in lab and safety measures (visit to a recognized aquatic animal health lab or microbiology lab is required.
	Total duration of course : 65 hrs Theory : 20 hrs, Practical : 45hrs		