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SELF-ASSESSMENT GUIDE

Qualification	AQUACULTURE (TILAPIA CULTURE) NC II																	
Units of Competency Covered	<ul style="list-style-type: none"> • Conduct pre-operational aquaculture activities • Operate tilapia hatchery and nursery • Perform tilapia grow-out 																	
Instruction:																		
Read each question and check the appropriate column to indicate your answer.																		
Can I?																	YES	NO
CONDUCT PRE-OPERATIONAL AQUACULTURE ACTIVITIES for Tilapia Hatchery and Nursery																		
• Enumerate major activities to be done and give tools, materials or equipment required when preparing tilapia culture facilities *																		
• Gather needed materials and paraphernalia tools and nets																		
• Weigh appropriate amount of fertilizer and lime appropriate to area size																		
• Demonstrate proper broadcasting of fertilizer and lime																		
• Measure and record temperature, pH and salinity of culture water *																		
for Tilapia Grow-out Operation																		
• Clean needed tools and equipment																		
• Inspect and repair or replaces nets (if any)																		
• Calibrate equipment following manufacturer's manual (if needed) *																		
• Compute quantity of farm inputs according to work requirements																		
• Inspect and disinfect nets																		
• Prepare aquaculture facilities (ponds and tanks); and set-up cage *																		
• Install screens to prevent entry of unwanted organisms *																		
• Demonstrate preparation of pond by liming, fertilizing, tilling and drying processes *																		
• Check conditions (ex. water holding capacity, optimum pH of soil and water, presence of unwanted organisms) of aquaculture facilities *																		
• Install cages/structures with its components *																		
• Discuss measures against extreme weather conditions																		
• Practice proper storage of tools, equipment and farm inputs																		
OPERATE TILAPIA HATCHERY AND NURSERY																		
• Classify breeders by sex following established industry practices *																		
• Discuss how to apply prophylactic measures for breeders																		

• Discuss proper feeding practice for breeders according to good aquaculture practice		
• Separate eggs and fry from mouth-brooding breeders *		
• Transfer collected eggs and fry, according to industry practice		
• Grade different sizes of fingerlings according to industry practice *		
• Calculate amount of hormone and ethyl alcohol required to treat given quantity of feed		
• Discuss drying, packing, labelling and storing hormone treated feed following industry procedures		
Calculate fry requirement for a given area *		
• Prepare daily feeding rate and schedule based on projected growth rate *		
• Discuss presence of diseases based on behavior of fish		
• Prepare needed materials and facilities for conditioning fingerlings for packing and transport		
• Demonstrate counting and packing of fingerlings considering fingerling size and travel time *		
PERFORM TILAPIA GROW-OUT		
• Discuss the quality (uniformity of size, ideal size and behaviour) of fingerlings		
• Calculate and discuss number of fingerlings required based on culture intensity and area *		
• Calculate the number of fingerlings by averaging actual counts based on samples		
• Demonstrate conditioning (acclimation) of fingerlings to receiving water environment prior to stocking		
• Determine average body weight (ABW) of fishes and biomass based on the given raw data *		
• Compute daily feed ration and feed conversion ratio (FCR), based on biomass *		
• Identify factors to be considered when monitoring feed consumption		
• Check feed quality in terms of physical characteristics		
• Discuss water quality parameters based on fish behavior, water color and transparency		
• Discuss interventions to maintain optimum water quality *		
• Identify diseases based on appearance or symptoms		
• Discuss how to determine the presence of diseases or poor environment condition and recommends treatment or preventive measures		
• Discuss proper disposal of dead fish following good aquaculture practices		
• Perform harvesting of fish from pond *		
• Classify fish by size		

• Discuss how to prepare fish for live market transporting		
• Prepare fish for chilled market		
• Prepare a stock monitoring form and feed monitoring form *		
• Practice safety and health while performing tasks		
I agree to undertake assessment with the knowledge that information gathered will only be used for professional development purposes and can only be accessed by concerned assessment personnel and my manager/supervisor.		
Candidate's Name and Signature		Date

NOTE: *Critical aspects of competence