

Reference No.																			
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SELF-ASSESSMENT GUIDE

Full Qualification	AQUACULTURE (HATCHERY OPERATION) NC II																	
Units of Competency Covered	<ul style="list-style-type: none"> • Conduct preparatory activities • Produce natural foods • Conduct broodstock management and spawning • Manage feeding and maintain good health of stock • Complete hatchery operation 																	
Instruction:																		
<ul style="list-style-type: none"> • Read each question and check the appropriate column to indicate your answer. 																		
Can I?																	YES	NO
CONDUCT PREPARATORY ACTIVITIES																		
• Clean and disinfect culture tanks *																		
• Install screen on drainage pipe or filter bags in water inlet, and aeration system *																		
• Prepare tools/materials, etc needed for hatchery activities																		
• Inspect and calibrate water quality monitoring instruments																		
• Check functionality of existing hatchery facilities/system (water line, aeration, filter system, etc) and performs minor repairs (if necessary)*																		
• Identify major breakdown of facility that needs to be reported																		
• Perform chlorine testing of water																		
• Practice safety measures in performing tasks																		
PRODUCE NATURAL FOODS																		
• Identify source of starter culture *																		
• Compute appropriate proportion of fertilizer for natural food *																		
• Discuss mass culture production methods and quality of natural food produced*																		
• Demonstrate how to monitor density of natural food produced *																		
• Demonstrate transferring/stocking of cultures to bigger containers *																		
Demonstrate maintenance of good water quality (aeration, water temperature, water salinity) *																		
• Prepare artemia hatching jar, water medium and aeration *																		
• Compute artemia cysts requirement according to hatching jar *																		
• Demonstrate separation of artemia nauplii for feeding *																		
CONDUCT BROODSTOCK MANAGEMENT AND SPAWNING																		
• Identify reputable sources of future brood stocks *																		
• Demonstrate marking of brood stock (tagging and clipping) *																		

	YES	NO
• Segregate broodstock/breeders according to sex *		
• Transfer ready to spawn broodstock to spawning tanks/ponds		
• Stocks breeders with immature eggs to ponds *		
• Identify pre-spawning activities		
• Apply spawn induction techniques based on the species requirement *		
• Estimates hatching rates and assess quality of spawns based on industry practice *		
• Identifies stock breeders that need conditioning *		
MANAGE FEEDING AND MAINTAIN GOOD HEALTH OF STOCK		
• Compute stocking density of chosen species' larvae and fry *		
• Compute daily feed requirement (DFR) of breeders/larvae/fry *		
• Identify appropriate kind of feeds based on growth stages *		
• Identify measures to manage health of breeders *		
• Transfer collected acclimatized post-larvae/fry to nursery tank		
• Demonstrate how to measure DO, pH and temperature using given equipment *		
• Apply appropriate action to maintain good water quality, based on the result of water quality measurements *		
COMPLETE HATCHERY OPERATION		
• Prepare hatchery harvesting equipment appropriate to stage of stock to be harvested *		
• Enumerate different stages of chosen species		
• Demonstrate collection post-larvae/larvae/fry *		
• Prepare conditioned post-larvae/fry for packing and transporting		
• Record number of collected larvae/fry *		
• Discuss dispersal/selling of eggs, fry, post-larvae and fingerlings and delivery arrangements *		
• Practice cleaning and/or disinfecting tools and equipment used *		
• Practice proper waste management *		
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