

## SSNS Training Course: Shrimp disease diagnosis: In-field and laboratory techniques

**Offered by:** The College of Aquaculture and Fisheries, Can Tho University, Vietnam

### Background

Infectious disease outbreaks are considered as the main devastating factor to commercial shrimp production. Early diagnosis of infectious diseases is therefore crucial for outbreak diagnosis, essential to manage outbreaks, prevent economic loss for farmers. It is in this context that the training course is organized by the Department of Aquatic Pathology, College of Aquaculture and Fisheries, Can Tho University which pioneered in the country's shrimp pathology research and teaching. The training program consists of comprehensive lectures, field sampling and practical laboratory training. This training is oriented for a practical approach to focus on in-field and laboratory methods, used to diagnose common diseases of farmed penaeid shrimp. This program also provides an opportunity for participants to interact with others involved in shrimp disease research and management.



### Learning outcome

- Enhanced knowledge on current status of shrimp diseases and shrimp health management
- Acquired skills of diagnostic diseases in cultured shrimp in field and lab. conditions

**Training duration:** 6 days (48 hrs), including:

#### ***Theory - 1 day (8 hrs)***

- Introduction to infectious and non-infectious diseases in cultured penaeid shrimp
- Diagnostic procedures and their applications in shrimp health management

#### ***Practical and field visit - 22 hrs of lab work + 16 hrs of field visit)***

- Practical laboratory training – two lab sessions per day
- Laboratory practices: In-field diagnostic methods; diagnostic procedures for parasitic diseases (wet mount diagnostic procedures and identification); diagnostic procedures for bacterial diseases (isolation, identification and antibiotic sensitivity tests); diagnostic procedures for viral diseases (PCR/RT-PCR for diagnosis of viral diseases in shrimp; Wet mount diagnostic procedures).
- Field visit in main shrimp farming systems in the Mekong delta, Vietnam (field sampling and on-farm field testing)

#### ***Presentation of results by the group of students (seminar room): 2 hours***

- Knowledge, technique and lesson learned, etc.
- Wrap-up by Instructor

**Feedback and evaluation by** students/participants

**Contact persons:** A/Prof. Dr. Tran Thi Tuyet Hoa; Dr. Bui Thi Bich Hang