



# *Epidemiology and Surveillance of Zoonotic Transboundary Disease*

<b>Programme</b>	<i>Annual International Training Course, Thai International Cooperation Programme</i>
<b>Course Title</b>	<i>Epidemiology and Surveillance of Zoonotic Transboundary Disease</i>
<b>Duration</b>	<i>April 23 - June 1, 2007 *</i>
<b>Closing Date for Application</b>	<i>January 31, 2007</i>
<b>Number of Participants</b>	<i>20</i>
<b>Invited Countries</b>	<i>Afghanistan, Bangladesh, Bhutan, Cambodia, China, India, Indonesia, Iran, Jordan, Lao PDR, Malaysia, Mongolia, Myanmar, Nepal, Pakistan, The Philippines, Sri Lanka, Timor Leste, Vietnam and Thailand *</i>

*\* Subject to change by further notifications*

## Objectives

### *The purpose of the course:*

- to provide the participants with knowledge in applied veterinary epidemiology animal disease information system, prevention and strategic control of emerging and re-emerging zoonoses and major transboundary diseases which threaten human health and international trade in animals and animal products, data management and analysis;
- to create better coordination and cooperation among participating countries for animal disease surveillance;
- to exchange participants' experience and promote relationships and understanding among participating countries

## Qualifications

### *Participants for this course should:*

- be authorities currently working in the field of animal disease investigation and surveillance, veterinarians or scientists involving in prevention of introducing diseases into country through trade;
- have practical experience of more than three (3) years in the field;
- be under the age of forty-five (45);
- be able to fluently speak and write in English;
- basic knowledge of computer use (ex. Microsoft Office);
- be in good health.



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## Course Content

### *I. Course outline*

- Scope and concepts of epidemiology as well as its role in contribution to health-related disciplines
- Design and develop the appropriate protocols for epidemiological investigation
- Biostatistic application: major statistical methods used in medicine, description in statistics and measurements
- Data management using computer software
- Analysis of epidemiological data, interpretation and presentation the results of epidemiological studies
- Principles of disease surveillance: sampling theory and sample size determinations for detection of infected animals and proving of disease free herd, data and information in a surveillance system, active surveillance programme, design of national system and regional networking in animal disease surveillance
- International laws and regulation concerning cross border epizootics and impact of zoonoses on public health and trade
- Zoonoses in the region; focusing on epidemiology and control strategies of major emerging and re-emerging diseases e.g. BSE, nipah virus encephalitis, avian influenza, salmonellosis and tuberculosis

## **II. Practical**

- Computer lab will be used for epidemiological and statistic lessons
- Practice in investigation planning, and executing
- Laboratory surveillance including seroprevalence

## **III. Field trips**

- to observe border control and livestock quarantine station
- to observe Regional Epidemiological Center, Ministry of Public Health
- to observe qualified slaughter house and Regional Veterinary Research and Development Center

## **IV. Advance assignments**

- *Country Report:*  
Participants are requested to prepare a country report. The report should contain the disease information system and the country animal health authorities' role related to livestock trade, prevalence of major zoonoses in the country, including foodborne disease. Participants are permitted to prepare slides, video tapes or other audio-visual to support their country report presentation. The report should be sent to the RC-VPH, CMU two weeks prior to the beginning of the course.
- *Project Assignment*  
Participants may bring along their own database for further analysis of their studies or their project's draft for further improvement. The work could be an exercise with close supervision from instructors during training period.



### **The course will be conducted by:**

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