

ICAR Sponsored Centre of Advanced Faculty Training in
FOOD QUALITY AND SAFETY MANAGEMENT SYSTEMS

4 – 24 DECEMBER, 2013



Department of Agricultural Microbiology
Tamil Nadu Agricultural University
Coimbatore – 641 003, Tamil Nadu

(www.tnau.ac.in)

(<http://agmicrotnau.webnode.com>)

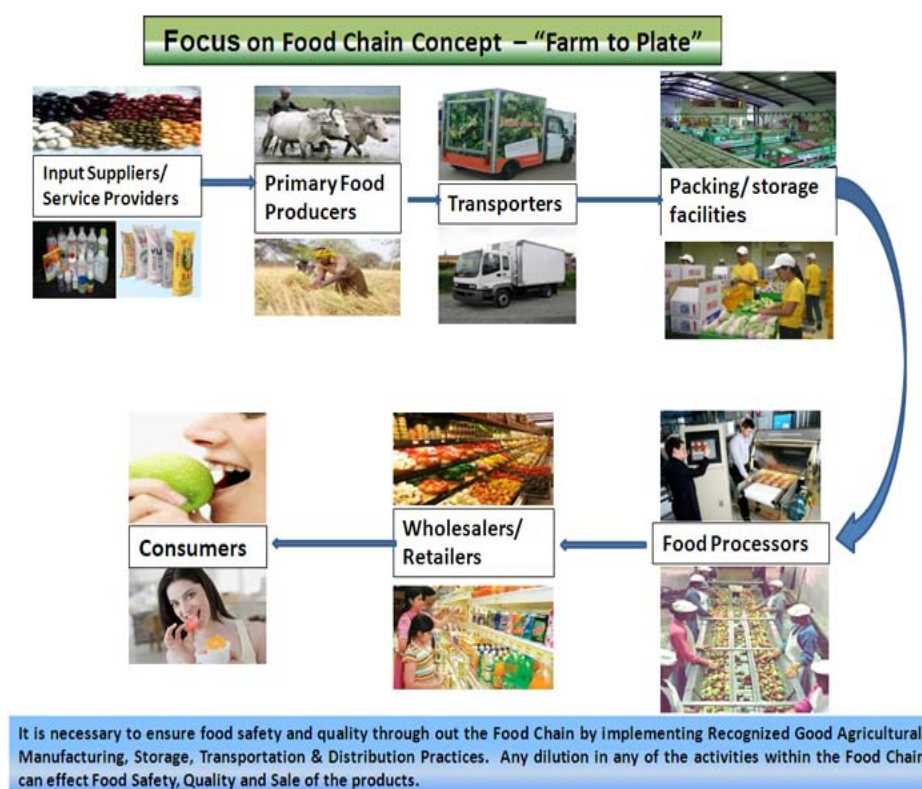


RATIONALE OF THE TRAINING

Food safety and quality have been gaining considerable importance at the national and international level since enhanced food safety is the key to improvements to health and nutrition. Food safety, besides reducing cost of food borne diseases, enhances food security, increases trade, expands income generation and thus assists in poverty alleviation, raise living standard and stimulate economic development. The estimates that food production needs to rise by 50 percent by the year 2030 to meet rising demand and the global trend of increase in food prices enhance importance of food safety.

Food safety is related to microbiological, chemical and physical hazards and is resulting in short term or long term health problems. The prevalence of chemical hazards and food borne pathogens and the reported number of cases and outbreaks in the agri food chain are still high, thus affecting personal lives, business and countries economies. For instance, various “food poisonings” reported in newspapers in India from time to time, outbreaks of Lathyrism, epidemic dropsy, venoocclusive disease, various mycotoxicoses , bird flu (H5N1) virus and cholera in Asia.

During recent years there is an increasing trend towards integration of countries around the world in terms of increased and easy movement of capital, knowledge, goods and people. The changing global factors that affect national food safety systems include increasing volume of international trade, expanding international and



regional bodies and resulting legal obligations such as SPS/TBT agreements, increasing food types and geographical sources, intensification and industrialization of agriculture, increased travel and tourism,

changing food handling patterns and new food processing methods. Agri-trade is influenced by high protection, a good example is the European Union regulations on aflatoxins, which is stringent, much more than required from health risk assessment.

The economic costs of food borne diseases are also considerable. It has been calculated that on the basis of per capita income, the economic burden on people in India affected by an outbreak of *Staphylococcus aureus* food poisoning was found to be higher than in case of similar outbreak in the USA. This case study clearly indicates that impact of economics on food safety is greater in a country like India than in developed countries. Thus economic cost of food borne disease and trade issues including reduced export earnings loss due to improper food safety, hygiene and quality need be taken into consideration while framing food safety policy. Factors such as availability of resources, budget and staff often determine the efficiency of food control system and economic cost will be a major consideration in the policy evolution.

Food safety issues are closely linked to developments in Science and technology. Good science is considered critical to identification of technology to detect new and changing public hazards, more effective and efficient approaches to solving public health problems as well as for regulatory decision making. Food safety policy should be based on well-researched scientific facts supported by adequate data.

The purpose of this training is to offer a novel educational opportunity, which will address important agricultural produce quality and safety issues and provide the trainee with a state of the art view of this emerging system of food production. The course will be taught by top-level specialists actively involved in academic and R&D industries. Participants will be trained to manage the possible measures of the hazards specified by national legislation and quality assurance standards/systems.

COURSE CONTENT

The principle of the different hazards of food safety and food safety versus food security. Good practices in the production of fresh agricultural produce and food industry sector.

Food safety hazards – food borne contamination, illness and hazards associated with agricultural products consumed in India - impact of contamination from bio solids and manure - microbiology of agricultural water (that includes transfer, survival, and control of microorganisms) – Role of soil in food safety -soil microbiology, and microbial interactions between soil microorganisms and fruit and vegetable products – Plant and plant produce safety - the interaction of microorganisms with plants and the surrounding environment, and how plant structure controls possible interactions between microorganisms and the fruit and vegetable products that we consume.

Risk analysis procedure for microbiological food safety hazards. - Quality Assurance Systems to control food safety – HACCP principles. Organization of the national / international food safety agencies.

Trainees

The applicants should be working for State Agricultural Universities, ICAR and other institutes in the agri-food chain.

Duration

Twenty one days, from 04.12.2013 to 24.12.2013.

Venue

Centre of Advanced Faculty Training, Department of Agricultural Microbiology, Tamil Nadu Agricultural University, Coimbatore – 641 003, Tamil Nadu

Travel

Travelling allowance will be met by the organizers. Depending on the availability of funds, reimbursement will be restricted to III tier AC / Sleeper class fares. No DA will be paid for the journey period.

Food & Accommodation

Boarding and lodging allowances for the stay at Coimbatore during the training period will be paid as per the recently revised rates of ICAR. Food and accommodation will be arranged at the University campus only for the participants.

The participant should submit application in the prescribed format given below only online using CBP portal through <http://iasri.res.in/cbp> or at <http://icar.org.in>. After filling the online application, take a printout of the application and get it approved by the competent authority of the organization. Upload the scanned copy of application through CBP portal on or before 10.11.2013.

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**ICAR SPONSORED CAFT TRAINING ON
Food Quality and Safety Management Systems**

04 – 24 December, 2013

APPLICATION FORMAT

Affix

Recent
Passport size
Photo

1. Name :
2. Designation :
3. Age and Sex :
4. Institute employed :
5. Total Service :
6. Experience :
7. a) Teaching :
 - i) Undergraduate :
 - ii) Postgraduate :
- b) Research :
8. Academic record :
9. Field of specialization :
10. Address for communication :
(Include mobile no., e-mail id &
Fax nos.)
11. Accommodation : Required / Not required
12. Address of the sponsoring :
institute

Signature of the candidate

Recommendation of the
sponsoring authority

Signature and designation of the
sponsoring authority