Certificate course on SAFETY IN CHEMICAL INDUSTRIES
(25th September to 9th November 2012
Timings : Weekdays 5.00p.m-7.00p.m

Organized by
Department of Applied Science and Technology
A.C.College of Technology
Anna University, Chennai-25
About Anna University and A.C College of Technology

Started 34 years ago, Anna University has established itself as a reputed and sought after university which has made an indelible evergreen impression about the quality of teaching and research among the student community. The courses organized by it are goal oriented and impart lot of employability skills.

A.C College of Technology has been training students in various technological fields applicable for industries. With the support of qualified and experienced faculty members, A.C Tech has excelled in various research activities.

About the Department of Applied Science and Technology

The Department of Applied Science and Technology, is an offshoot from the parent Chemical Engineering Department and it has earned a good reputation in a short span of time. The certificate course to be offered on safety in chemical industries is not only socially relevant but also tailored to the industrial needs. Training in safety procedures and hazardous chemicals will play a pivotal role in the future scenario. Viewed in this context, the short term course assumes tremendous importance.

Employment potentials
In the emerging scenario of vast expansion of chemical industries, especially large scale synthesis of organic chemicals, training in safety procedures will play a leading role because of the hazardous nature of the operations involved.

Entrepreneurship potential
In addition, to ready employability of trained manpower, scope for entrepreneurship will exist in the form of consultancy work, conducting safe audits etc.

COURSE CONTENT

Chapter 1
Introduction to the concept of safety, safety scenario-need for awareness creations and sensitising workers-safety audit and its importance.

Chapter 2
Handling hazardous chemicals-pyrophoric nature of chemicals-methods of extinguishing chemical fires-precautions to be observed in handling alkali metals.

Chapter 3
Poisonous gases –their ill effects on the health-tolerance limits of various industrial emissions-first aid procedures-for acid, alkali and mercury poisoning- antidotes for various poisons-plumbosolvency.

Chapter 4

Chapter 5
Paints-hazardous nature of lead containing paints-safe alternatives.

Chapter 6
Drinking water standards-permissible levels of various substances in drinking water as W.H.O-concept of biological oxygen demand and chemical oxygen demand-method of reducing biological oxygen demand.

Chapter 7
Activation and deactivations-hard and soft pedaling of reaction conditions.

Chapter 8
Explosives – causative factors of explosions-need to monitor temperature during nitrations-handling ether-necessity to remove peroxides-preparation of thiophene free benzene-precautions to be observed.