



AL160: LIMS Technical Training



Training Description:

This intensive course covers a new features and functionality being added often. As laboratory demands change and technological progress continues, the functions of a LIMS will likely also change. Despite these changes, a LIMS tends to have a base set of functionalities that defines it. That functionality can roughly be divided into five laboratory processing phases, with numerous software functions falling under each.

This course is designed to provide participants with a detailed and an up-to date overview of laboratory information management system (LIMS). It covers the laboratory work flow and sample flow chart; the smart lab, lab automation and lab informatics; and the LIMS including its basic concept, evolution and trends.

Further, the course will discuss the various types and benefits of LIMS application, ELN, LES, SDMS and LIS; the LIMS environment, architecture and features; the proper selection of LIMS; the LIMS preparation, implementation and validation; and building LIMS efficiently.

Training Objective:

By the end of the training, participants will be able to:

- ✓ Apply and gain basic knowledge on Laboratory Information Management System (LIMS)
- ✓ Illustrate laboratory work flow and sample flow chart
- ✓ Discuss smart lab, lab automation and lab informatics
- ✓ Define LIMS including its basic concept, evolution and trends
- ✓ Identify the various types and benefits of LIMS application, ELN, LES, SDMS and LIS
- ✓ Describe LIMS environment, architecture and features
- ✓ Demonstrate and apply proper selection of LIMS
- ✓ Prepare, implement and validate LIMS in a professional manner
- ✓ Review various case studies pertaining to Southern Research Institute as well as build LIMS efficiently

Training Designed for:

This course is intended for laboratory managers and staff who are involved in maintaining and using the laboratory information management system (LIMS).

Training Program:

FIVE DAYS:

- ❖ PRE-TEST
- ❖ Introduction
- ❖ Initial Discussion & Brain Storming
- ❖ Laboratory Work Flow & Sample Flow Chart
- ❖ Smart Lab; Lab Automation & Lab Informatics
- ❖ What is a LIMS? The Basic Concept
 - LIMS Evolution & Trends
- ❖ Different Types of LIMS Application
 - Benefits of LIMS
 - ELN





- LES
- SDMS
- LIS
- ❖ LIMS Environment
- ❖ LIMS Architecture
- ❖ LIMS Feature
- ❖ **Practical Sessions**
 - LIMS Demo
- ❖ Selection of Proper LIMS
- ❖ How to Prepare for LIMS?
- ❖ LIMS Implementation & Validation
- ❖ Case Study
 - Southern Research Institute
- ❖ Questions & Answers, Discussion
- ❖ **Practical Sessions**
 - Building LIMS
- ❖ Course Conclusion
- ❖ POST-TEST and EVALUATION

Training Requirement:

“Hand’s on practical sessions, equipment and software will be applied during the course if required and as per the client’s request”.

Please note that the above topics can be amended as per client’s learning needs and objectives. Further, it should be forwarded to us a month prior to the course dates.

Training Methodology:

This interactive training course includes the following training methodologies as a percentage of the total tuition hours:-

- 30% Lectures, Concepts, Role Play
- 70% Workshops & Work Presentations, Techniques, Based on Case Studies & Practical Exercises, Software & General Discussions
- Pre and Post Test

Training Certificate(s):

Internationally recognized certificate(s) will be issued to each participant who completed the course.

Training Fees:

As per the course location - This rate includes participant’s manual, hand-outs, buffet lunch, coffee/tea on arrival, morning & afternoon of each day.

Note: The 5% VAT (Value Added Tax), will be effective starting 01st of January 2018 as per the new regulation from the UAE Government. The VAT applies for all quotation both for local and abroad.





Training Timings:

Daily Timings:

07:45 - 08:00	Morning Coffee / Tea
08:00 - 10:00	First Session
10:00 - 10:20	Recess (Coffee/Tea/Snacks)
10:20 - 12:20	Second Session
12:20 - 13:30	Recess (Prayer Break & Lunch)
13:30 - 15:00	Last Session

For training registrations or in-house enquiries, please contact:

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Training & Career Development Department