Spectrophotometry

Introduction
Spectrophotometry is a powerful analytical method for the determination of many chemical compounds and elements. The method is based on the interaction of light with material in visible and ultraviolet range, 190-800 nm. All samples are pre-treated to aqueous or organic solvent solutions. Spectrophotometry can be used for the analysis of many kinds of materials like soil, sediment, oil and oil products, seawater, drinking water, process water, metals, ceramics etc.
The positive features are: easy to operate, robust, simple experimental set up, not expensive, versatile, fast, qualitative and quantitative analysis, less service and maintenance cost.

Contents and Aims
Beside the fundamental of light interaction with material we also introduce you in operating spectrophotometers. You will be trained in optimisation of all relevant experimental variables to attain the best analytical result. It makes you possible to develop analytical methods according to the demands in your laboratory. We also deal with automated methods. Additionally, trouble shooting is a major part of the course.

Organisation
The session of introduction in the theory of spectrophotometry is followed by a practical part. You operate several types of spectrophotometer

Participants
Chemists, engineers, lab-technicians, head of laboratories, managers of department of testing

Duration **Time**
5 days November 2007

Authors
Prof. Dr. Heinz-Martin Kuss, analytical chemist with many years experience in theory and practice in analytical chemistry and in education and teaching
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Language
English and Arabic

Certificate
After successful participation a certificate will be provided.

Local organisation
ITA International Training Agency

Partner organisation
Talecon is official partner of ITA International Training Agency, Beirut, with branch in Tripoli, Libya

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