

COURSE: INDUSTRIAL METROLOGY AND QUALITY MANAGEMENT

Place: Faculty of Engineering (Puerto Real) / Faculty of Philosophy (Cádiz)

Dates: from 13th July to 24th July / from 17:00h to 20:00h

Duration: 30 hours

Teachers:

- Ing. Juan-Pablo Contreras (Univ. Cádiz)
- Ing. Carlos-Antonio Guillen (Univ. Cádiz)
- Ing. Salvador Gómez (Airbus Operations Spain)
- Architect Alberto Cerezo (SAICA SL)
- Ing. Davinia Rodríguez (Univ. Cádiz)

Language: English

Contents
Introduction. Global Markets. Technical barriers to trade. Standardization, Accreditation and Metrology.
Introduction to the Industrial Metrology. Length, angular, form and surface measurements. Coordinate measuring systems. Pressure measurement.
Quality in Test and Calibration Laboratories: ISO/IEC 17025.
Quality in Test and Calibration Laboratories: ISO/IEC 17025.
Introduction to Uncertainty of Measurements.
Introduction to Uncertainty of Measurements. Examples.
Introduction to Uncertainty of Measurements. Examples.
Fundamental of Process Management. Lean Management and Lean Manufacturing.
Standards for Integrated Management Systems: ISO9001, ISO14001; OHSAS18001
Visit to the accredited laboratory “Industrial Metrology Center” of UCA. Visit to the Faculty of Engineering UCA
Presentations by the students of the proposed topics. Final Test