

EQUIPMENT OPERATION, MAINTENANCE, CALIBRATION & TROUBLESHOOTING FOR CHANDLER EQUIPMENT

"Master the Precision, Performance, and Reliability of Chandler Laboratory Testing Equipment."

Schedule

Venue (InHouse)	Fees
At Your Organization Premises	Ask For The Quotation

► **Available delivery methods:** In-House Training

Introduction

Chandler Engineering is globally recognized for its advanced oilfield testing equipment used in drilling fluids, cementing, and formation evaluation. This comprehensive 5-day technical course equips laboratory technicians, maintenance engineers, and operators with in-depth knowledge to confidently operate, maintain, calibrate, and troubleshoot a wide range of Chandler instruments such as HPHT Consistometers, Viscometers, UCA analyzers, and more. Emphasis is placed on ensuring accuracy, reliability, and operational safety.

Objectives

By the end of this course, participants will be able to:

- Understand the functions and configurations of key Chandler equipment
- Conduct daily operational checks and best practice usage
- Perform regular and advanced maintenance tasks
- Calibrate equipment according to OEM and ISO/API standards
- Diagnose common equipment faults and implement troubleshooting procedures
- Interpret operational data and ensure accurate reporting

Why Attend

This course provides critical hands-on knowledge and structured technical understanding necessary for maintaining the integrity and operational reliability of Chandler equipment—especially in high-risk, high-accuracy environments such as laboratories, cementing operations, and quality control labs.

Target Audience

- Laboratory Technicians and Supervisors
- Cementing and Drilling Fluids Engineers
- QA/QC Technicians
- Maintenance & Service Technicians
- HSE and Compliance Inspectors
- Anyone operating or managing Chandler laboratory equipment

Individual Benefits

- Gain confidence in using and troubleshooting high-precision testing instruments
- Increase lab productivity and minimize downtime
- Improve personal competency in calibration and preventive maintenance
- Enhance technical credibility and career advancement potential

Organizational Benefits

- Ensure reliable and accurate test data for critical operations
- Reduce unplanned maintenance and associated downtime
- Extend lifespan of high-value laboratory equipment
- Meet compliance and auditing standards efficiently

Instructional Methodology

- Instructor-led demonstrations and real equipment interaction
- Step-by-step operational simulations
- Hands-on calibration labs and error code diagnostics
- Real case studies of equipment failure and resolution
- Interactive Q&A, checklists, and manuals

Course Outline

DETAILED 5-DAY COURSE OUTLINE (Customizable) Training Hours: 07:30 AM – 03:30 PM Daily Format: 3–4 Modules | Coffee breaks: 09:30 & 11:15 | Lunch Buffet: 01:00 – 02:00

DAY 1 – OVERVIEW OF CHANDLER EQUIPMENT & SAFETY PROCEDURES

- Module 1: Introduction to Chandler Engineering Equipment Portfolio (07:30 – 09:30)
- Module 2: Lab Safety Protocols and Manufacturer Safety Guidelines (09:45 – 11:15)
- Module 3: Overview of API and ISO Requirements for Testing Equipment (11:30 – 01:00)
- Module 4: Hands-On: Familiarization with Equipment Panels and Interfaces (02:00 – 03:30)

DAY 2 – OPERATIONAL PROCEDURES & TEST CONFIGURATION

- Module 1: HPHT Consistometer Operation and Configuration (07:30 – 09:30)
- Module 2: Viscometer & Rheometer Settings and Usage (09:45 – 11:15)
- Module 3: UCA (Ultrasonic Cement Analyzer) Operational Workflow (11:30 – 01:00)
- Module 4: Hands-On Operation: Running Test Cycles and Logging Data (02:00 – 03:30)

DAY 3 – PREVENTIVE MAINTENANCE & COMPONENT IDENTIFICATION

- Module 1: Identifying Key Components: Pumps, Sensors, and Valves (07:30 – 09:30)
- Module 2: Lubrication, Filter Replacement, and Clean-Out Routines (09:45 – 11:15)
- Module 3: Preventive Maintenance Scheduling and Logs (11:30 – 01:00)
- Module 4: Group Workshop: Disassembly and Maintenance Practice (02:00 – 03:30)

DAY 4 – CALIBRATION & VERIFICATION TECHNIQUES

- Module 1: Calibration Requirements by Instrument Type (07:30 – 09:30)
- Module 2: Using Reference Fluids and Tools for Accurate Calibration (09:45 – 11:15)
- Module 3: Verifying Results, Managing Calibration Certificates (11:30 – 01:00)
- Module 4: Hands-On Calibration Lab and Performance Verification (02:00 – 03:30)

DAY 5 – TROUBLESHOOTING, ERROR CODES & SYSTEM RESTORATION

- Module 1: Common Equipment Faults and Root Cause Analysis (07:30 – 09:30)
- Module 2: Understanding Error Codes and Diagnostic Menus (09:45 – 11:15)
- Module 3: Software Interface Tips, Firmware Updates, and Backups (11:30 – 01:00)
- Module 4: Final Troubleshooting Challenge + Q&A & Wrap-Up (02:00 – 03:30)

Certification

Upon successful completion, participants will receive a Certificate in Chandler Equipment Operation, Maintenance, Calibration & Troubleshooting, indicating technical competency and readiness to manage high-performance testing systems.

Why Choose MAWA Events

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Interested in running this course for your team?

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