

## PRODUCTION ACCOUNTING & MATERIAL BALANCE

*“Master the Fundamentals of Hydrocarbon Measurement, Allocation & Reservoir Monitoring”*

### Schedule

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

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

### Introduction

This 5-day intensive course provides participants with a deep understanding of production accounting systems and material balance principles in the oil and gas industry. It focuses on tracking hydrocarbon flows from reservoir to point-of-sale, ensuring accuracy in volume measurement, allocation, and reconciliation. Participants will also explore how material balance techniques support reservoir management and production optimization.

Through real-world exercises, data analysis, and industry scenarios, attendees will learn how to validate data integrity, identify anomalies, and support financial and regulatory reporting with precision.

### Objectives

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

- Understand the components and workflow of production accounting
- Apply volumetric and mass balance calculations across facilities
- Use material balance equations to assess reservoir performance
- Detect and investigate measurement inconsistencies and losses
- Support accurate hydrocarbon allocation and regulatory compliance

## Why Attend

- Gain practical skills in production data management and analysis
- Ensure accurate allocation and reporting across multiple stakeholders
- Enhance collaboration between operations, finance, and reservoir teams
- Strengthen your organization's compliance and audit readiness
- Minimize production losses and optimize asset performance

## Target Audience

This course is ideal for:

- Production Accountants and Analysts
- Petroleum Engineers and Reservoir Engineers
- Operations and Asset Managers
- Field Data Coordinators
- Regulatory and Compliance Officers

## Individual Benefits

- Competence in hydrocarbon measurement systems and reporting
- Ability to validate and reconcile production data confidently
- Improved decision-making in reservoir monitoring
- Professional growth in cross-functional oil and gas operations

## Organizational Benefits

- Improved hydrocarbon accounting accuracy and data integrity
- Enhanced financial reporting and joint venture alignment
- Better reservoir surveillance and production forecasting
- Stronger audit trail and regulatory compliance

## Instructional Methodology

- Instructor-led presentations and whiteboard problem solving
- Hands-on exercises with field data and balance models
- Real-life case studies of allocation disputes and reconciliations
- Group workshops and discussion sessions
- Excel-based templates for volumetric and material balance calculations

## 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: Fundamentals of Production Accounting

- Module 1 (07:30 – 09:30): Introduction to Hydrocarbon Production Accounting
- Module 2 (09:45 – 11:15): Measurement Points, Systems, and Units
- Module 3 (11:30 – 01:00): Allocation Methods: Equity, Volume, Netback, etc.

### Day 2: Measurement Systems & Allocation

- Module 4 (07:30 – 09:30): Metering Types and Error Analysis
- Module 5 (09:45 – 11:15): Volume Reconciliation and Back Allocation
- Module 6 (11:30 – 01:00): Production Loss Reporting and Data Anomalies

### Day 3: Material Balance Principles

- Module 7 (07:30 – 09:30): Material Balance Fundamentals and Equations
- Module 8 (09:45 – 11:15): Application in Reservoir Management
- Module 9 (11:30 – 01:00): Reservoir Drive Mechanisms and MB Types

### Day 4: Production Data Analysis & Integrity

- Module 10 (07:30 – 09:30): Production Reporting & Data Sources
- Module 11 (09:45 – 11:15): Detecting Imbalances and Missing Volumes
- Module 12 (11:30 – 01:00): Handling Inconsistencies in Multiphase Flows

### Day 5: Case Study, Compliance & Digital Tools

- Module 13 (07:30 – 09:30): Integrated Allocation Case Study
- Module 14 (09:45 – 11:15): Regulatory Requirements & Audit Trails
- Module 15 (11:30 – 01:00): Digital Solutions: PA Software & Dashboarding

## Certification

Participants will receive a Certificate of Completion in Production Accounting & Material Balance, validating their expertise in hydrocarbon allocation and data management.

## Why Choose MAWA Events

- **Global Expertise:** More than 17 years of experience in professional training and consulting.
- **Industry-Leading Faculty:** Courses delivered by seasoned professionals with hands-on experience.
- **Practical Insights:** Learn to turn theory into actionable strategies for real-world business impact.
- **Client-Focused Solutions:** Customized programs designed to achieve your organisation’s unique goals.

### In-House / Customized Training

Interested in running this course for your team?

Please contact us:

TEL:

**+601116373203**

EMAIL:

**info@mawaevents.net**