

Commingled Production Allocation and Reconciliation Training Course

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Overview

Commingled Production Allocation and Reconciliation Training Course is a one-week advanced course for production allocation, field operations, measurement, petroleum accounting and joint-venture professionals. Participants connect meters, well tests, laboratory data, process models and commercial rules to allocate oil, gas and water through shared facilities. They leave with a Production Allocation and Reconciliation Control Pack covering method, uncertainty, imbalance, ownership and audit evidence. Agile Leaders Training Center presents this specialist production-allocation course.

Who Should Attend

- Production allocation and hydrocarbon accounting engineers
- Field operations and production-reporting professionals
- Metering, measurement and instrumentation specialists
- Petroleum accountants and revenue analysts
- Joint-venture, commercial and lifting-accounting teams
- Internal audit, assurance and regulatory-reporting personnel

Participants should understand production operations, measurement, accounting or joint-venture reporting. The course does not replace custody-transfer certification or detailed multiphase-flowmeter design.

Departments and Industries

- Upstream operators, joint ventures and national oil companies
- Onshore and offshore fields using shared production facilities
- Production operations, measurement and surveillance departments
- Hydrocarbon accounting, finance and commercial functions
- Pipeline, terminal, processing and export organisations
- Regulators, auditors and allocation-system consultants

Learning Objectives

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

- Map production streams, measurement points and ownership boundaries
- Select allocation methods for commingled oil, gas and water
- Use well tests, meters, models and quality data to calculate factors
- Reconcile gains, losses, shrinkage, fuel, flare and inventory movement
- Quantify uncertainty and control back-allocation and adjustments
- Build an auditable Production Allocation and Reconciliation Control Pack

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Course Agenda

Day 1: Establish the Allocation System

- Production Flow Network and Ownership Boundary Map
- Measurement Hierarchy and Metering-Point Register
- Allocation Agreement and Stakeholder Requirement Matrix
- Oil, Gas, Water and Product-Quality Data Dictionary
- Allocation Period, Cut-Off and Data-Readiness Checklist

Day 2: Build Allocation Calculations

- Direct, Proportional and Difference Allocation Methods
- Well-Test and Virtual-Meter Input Validation
- Oil, Gas and Water Allocation-Factor Calculations
- Density, Composition, Energy and Quality Adjustment
- Worked Shared-Separator and Export-Meter Allocation

Day 3: Treat Losses and Imbalances

- Fuel, Flare, Vent, Shrinkage and Process-Loss Treatment
- Inventory Change and Line-Pack Reconciliation
- Metering Mismatch and Unaccounted-for Quantity Analysis
- Cross-Period Adjustment and Back-Allocation Rules
- Daily, Monthly and Final Reconciliation Workflow

Day 4: Govern Uncertainty and Audit

- Measurement Uncertainty and Allocation Sensitivity
- Data Substitution, Estimation and Exception Approval
- Version Control, Change Log and Recalculation Evidence
- Partner Statement and Regulatory Reporting Controls
- Allocation Review, Dispute and Audit Trail

Day 5: Practice Allocation Decisions

- Suggested Exercise: Map a Commingled Production Network
- Suggested Exercise: Calculate Oil, Gas and Water Factors
- Suggested Exercise: Reconcile Shrinkage and Meter Imbalance
- Suggested Exercise: Back-Allocate Corrected Well-Test Data
- Capstone Exercise: Present the Production Allocation and Reconciliation Control Pack

Practical Exercises

- Build an allocation network from wells through shared separation and export.
- Calculate contributor factors using meter, test and quality information.
- Reconcile measured exports with fuel, flare, inventory and process losses.
- Defend an adjustment through uncertainty, approval, version and partner evidence.

FAQs

What is commingled production allocation?

It is the process of determining the oil, gas and water contribution and ownership of each well, field or participant after streams are combined in shared production, processing, transport or storage systems.

Which data support an allocation calculation?

Inputs may include fiscal and operational meters, well tests, virtual meters, laboratory composition, density, process conditions, inventories, fuel and flare records, operating status and agreed allocation rules.

How are gains and losses reconciled?

Measured inputs and outputs are placed on consistent quantity and quality bases, adjusted for inventory, fuel, flare, shrinkage and known losses, then the remaining imbalance is investigated and allocated under approved rules.

What is back-allocation?

Back-allocation revises historical contributor quantities when better information arrives, such as corrected meter data, validated well tests or updated fluid properties, while preserving a controlled audit trail.

How is allocation uncertainty controlled?

Teams identify uncertainty in measurements, tests, models and assumptions, test sensitivity, apply hierarchy and substitution rules, approve exceptions and communicate material effects to stakeholders.

What will participants produce?

Participants build a control pack containing the network, data hierarchy, equations, loss treatment, reconciliation, uncertainty register, adjustment workflow, statements and audit evidence.

Conclusion

Participants leave with a repeatable method for turning mixed production evidence into fair, transparent and auditable ownership quantities. The control pack supports consistent reporting as operating conditions, tests, meters and agreements change.

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