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COURSE BROCHURE

Utility Regulation and Compliance Training Course

18 – 22 January 2027
Singapore

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Registered in the United Kingdom and Saudi Arabia

Utility Regulation and Compliance Training Course

Ref: **720_27008** **Date:** **18 – 22 January 2027** **Location:** **Singapore** **Fees:** **6900 GBP**

Utility Regulation and Compliance Training Course is a 1-week training course for regulatory affairs managers, compliance officers, and tariff analysts who need to leave with a Utility Compliance and Tariff Dossier. Restructuring utility markets, unbundled networks, and tightening service codes require operators to balance cost-reflective tariffs against statutory performance guarantees. Jupiter Prime Training delivers this Utility Regulation and Compliance Training Course to unite economic rate-making, asset stewardship, and supervisory oversight.

Why Utility Regulation and Compliance Matters Now

Three commercial realities define the modern utility environment: structural market unbundling that separates transmission assets from contestable generation, aggressive integration of decentralized renewable energy requiring updated grid access rules, and heightened public scrutiny regarding service reliability. Failure to observe regulatory standards risks severe statutory penalties, rejected tariff applications, and mandatory customer compensation for sustained service interruptions. Success demands a rigorous governance architecture that aligns operational investments with supervisory expectations. This course grounds utility oversight in ISO 31000:2018 Risk management — Guidelines, COSO ERM Enterprise Risk Management — Integrating with Strategy and Performance, and ISO 55001:2014 Asset Management — Management systems — Requirements across power and water networks.

Who Gains Most from Utility Regulation and Compliance

- Leads who manage regulatory filings, statutory licence conditions, and supervisory dispute resolution
- Analysts who calculate revenue requirements, capital expenditure allowances, and tariff structures
- Engineers who monitor service interruption indices and enforce grid code connection protocols
- Risk officers who integrate sector directives and licence mandates into enterprise risk registers
- Asset managers who justify capital replacement programmes using life-cycle performance evidence

Utility strategy and compliance units that send an economic analyst, a licensing specialist, and a technical operations manager together gain most.

Utility Regulation and Compliance Capabilities

Participants master the analytical methods and administrative procedures required to satisfy supervisory requirements and defend operating tariffs.

- Calculate utility revenue requirements using building block models and weighted average cost of capital — finance directors and tariff analysts
- Align network replacement plans with ISO 55001:2014 asset management standards — transmission and distribution asset managers
- Audit system reliability indices against statutory service level benchmarks — technical operations leads
- Assess distributed generation applications under renewable connection frameworks — interconnection engineers and legal counsel
- Build utility risk registers mapped to ISO 31000:2018 guidelines — chief risk officers and compliance directors
- Design structured information-request protocols for supervisory reviews — corporate governance leads and regulatory managers

Key Utility Regulation and Compliance Terms

- Building block method — an economic rate-making framework calculating utility revenue requirements from capital charges, depreciation, operating expenses, and taxation.
- Regulated asset base — the economic value of capital assets employed by a utility to deliver regulated services, determining allowable capital returns.
- System Average Interruption Duration Index — a reliability metric tracking the average total outage duration experienced by an active customer over a defined reporting interval.
- System Average Interruption Frequency Index — an operational benchmark measuring the average number of sustained service interruptions sustained by each utility customer over a year.
- Weighted average cost of capital — the blended rate of return a regulated utility is permitted to earn across its equity and debt liabilities.
- Renewable energy grid code — technical and operational specifications governing the terms under which independent generation facilities connect to the transmission or distribution network.

Utility Regulation and Compliance Day by Day

Day 1: Market Restructuring and Licensing Frameworks

- Unbundled Utility Market Architectures — Establishing Commercial Boundaries Across Generation, Transmission, and Distribution
- Utility Licence Condition Audits — Mapping Operating Permissions to Statutory Obligations and Exemptions
- Information Request Protocol Design — Managing Evidentiary Timelines and Formal Justifications for Authorities
- Statutory Consumer Protection Standards — Aligning Service Charter Commitments with Fair Treatment Mandates
- G20/OECD Principles of Corporate Governance — Structuring Board Oversight for State and Private Utilities

Day 2: Economic Regulation and Tariff Determination

- Building Block Revenue Requirement Models — Establishing Allowable Capital and Operational Expenditure Baselines
- Regulated Asset Base Valuation Protocols — Reconciling Fixed Capital Assets and Depreciation Schedules
- Weighted Average Cost of Capital Estimation — Balancing Investor Returns Against Consumer Affordability Benchmarks
- Intensive Consumption Tariff Structuring — Designing Cost-Reflective Commercial Rate Classes for Industrial Loads
- Wheeling and Interconnection Pricing Schemes — Setting Non-Discriminatory Access Tariffs for Third-Party Users

Day 3: Reliability Standards and Service Level Compliance

- SAIDI and SAIFI Performance Benchmarking — Setting Network Interruption Targets and Penalty Mitigation Schedules
- Customer Service Level Guarantee Audits — Enforcing Guaranteed Response Times and Mandated Customer Restitution
- ISO 55001:2014 Asset Governance Integration — Justifying Network Capital Replacements Through Life-Cycle Risk Data
- Voltage Tolerance and Power Quality Monitoring — Ensuring Distribution System Compliance with Mandatory Grid Directives
- Critical Infrastructure Physical Security Directives — Implementing Mandatory Protection Standards for Power and Water Facilities

Day 4: Renewable Grid Integration and Risk Governance

- Decentralized Generation Connection Frameworks — Processing Renewable Interconnection Applications Within Mandatory Turnaround Limits
- Production Cost Simulation Models — Projecting Dispatch Economics and Renewable Curtailment Exposures
- ISO 31000:2018 Risk Register Configuration — Integrating Sector Regulatory Exposures into Corporate Governance Controls
- COSO ERM Framework Alignment — Embedding Rate-Case Uncertainty and Compliance Mandates into Corporate Strategy
- ISO 50001:2018 Energy Management Auditing — Verifying Industrial Efficiency Benchmarks Across High-Demand Consumers

Day 5: Practising Utility Compliance and Rate Defence

- Simulated Tariff Filing Review — Defending Building Block Expenditure Requests Against Prudence Challenges
- Guaranteed Standards Violation Assessment — Applying Mandatory Restitution Formulas to Complex Network Outage Incidents
- Decentralized Grid Connection Case Analysis — Resolving Distribution Interconnection Disputes Under Regulatory Technical Frameworks
- Regulatory Audit Hearing Rehearsal — Presenting Evidentiary Information Dossiers Before Sector Oversight Panels
- Utility Compliance and Tariff Dossier Assembly — Consolidating Rate Models, Reliability Controls, and Governance Schedules

Applying Utility Regulation and Compliance After the Course

- Audit current distribution interruption indices and calculate potential compensation liability under revised guaranteed service standards.
- Reconcile regulated asset base records against ISO 55001:2014 asset management documentation in preparation for upcoming tariff submissions.

Utility Regulation and Compliance Questions FAQ

What is utility regulation and compliance, and why does it matter now?

It is the process of aligning utility rate structures, operations, and grid connectivity with statutory oversight rules. It matters now because market unbundling and rapid renewable deployment demand clear tariff transparency and strict adherence to network service guarantees.

Which roles gain most from utility regulation and compliance?

Regulatory affairs managers, utility financial analysts, and network operations directors gain most, as they directly formulate rate cases, prepare regulatory filings, and maintain statutory grid reliability standards across electricity and water networks.

How does utility regulation and compliance differ from a generic corporate governance course?

It focuses specifically on utility economics, regulated asset valuation, rate-setting formulas, and sector-specific reliability indices. A generic corporate governance course addresses board structures, broad commercial law, and enterprise risk without sector-specific rate cases.

What do you bring back from utility regulation and compliance?

You bring back validated revenue requirement calculations, audited reliability index trackers, standardized protocols for regulatory information requests, and an integrated risk register designed for utility audits.

Utility Regulation and Compliance: The Way Forward

The Utility Compliance and Tariff Dossier sets out approved revenue models, reliability benchmark targets, licence obligation checklists, and customer compensation procedures. Its initial use is typically guiding capital expenditure submissions during upcoming tariff reviews. Executive directors and compliance managers rely on its schedules, and after initial regulatory filing, its underlying asset risk assumptions warrant systematic re-evaluation.