



IM023: Infrastructure Investment & Financing in Water and Electricity Sectors

Training Description:

This intensive five-day training course provides participants with a comprehensive understanding of the principles, strategies, and instruments involved in the investment and financing of infrastructure projects in the **water and electricity sectors**. The training program blends theory with practical case studies to examine risk management, PPP structures, financial modeling, regulatory frameworks, and sustainable investment approaches tailored to these critical utility sectors.

Training Objectives:

By the end of the training, participants will be able to:

- ✓ Understand the key drivers and challenges of infrastructure investment in water and electricity
- ✓ Analyze the lifecycle of utility infrastructure projects, from concept to operation
- ✓ Evaluate financing models including public-private partnerships, project finance, and blended finance
- ✓ Apply investment appraisal and risk mitigation techniques
- ✓ Navigate the regulatory, institutional, and environmental context of utility infrastructure
- ✓ Design financially viable and bankable water and electricity projects

Training Designed for:

This training course is intended for Government officials and regulators in energy and water sectors, Investment analysts and financial advisors, Infrastructure developers and project sponsors, Development finance institutions (DFIs), Consultants and engineers in the utility sector, Utility managers and policy makers and Legal advisors and PPP professionals.

Training Requirement:

“Hand’s on practical sessions, equipment and software will be applied during the course if required and as per the client’s request.”

Contents can be adapted to your specific wishes. It is therefore possible to focus on specific modules of the training course as per client’s learning needs and objectives. Further, it should be forwarded to us a month prior to the course dates.

Training Program:

DAY ONE:

- ❖ **Infrastructure Investment Landscape**
- ❖ **Fundamentals of Infrastructure Development in Water and Electricity**
 - Overview of global and regional trends in utility infrastructure investment
 - Strategic importance of water and electricity infrastructure in economic development
 - Lifecycle of infrastructure projects: planning, development, operation, and decommissioning
 - Key stakeholders: governments, private investors, MDBs, and donors
 - Introduction to investment risks and returns in utility sectors
 - Institutional and regulatory frameworks

DAY TWO:

- ❖ **Project Structuring & Legal Frameworks**
- ❖ **Project Preparation, PPPs, and Enabling Environments**
 - Structuring infrastructure projects: ownership, control, and incentives
 - Public-Private Partnerships (PPPs): models, risk-sharing, and case examples
 - Legal and contractual frameworks: Concession Agreements, Power Purchase Agreements (PPAs), and Water Service Contracts
 - Land acquisition, permitting, and ESG considerations
 - Institutional readiness and policy reforms for investment

DAY THREE:

- ❖ **Financing Instruments and Sources**
- ❖ **Financing Mechanisms and Stakeholder Engagement**
 - Overview of financing options: equity, debt, grants, guarantees
 - Project finance vs. corporate finance in infrastructure
 - Role of DFIs, MDBs, and sovereign wealth funds
 - Blended finance and climate funding (Green Climate Fund, SDG financing)
 - Tariff setting, cost recovery, and subsidy design
 - Credit enhancement and risk mitigation instruments (MIGA, PRG, etc.)

DAY FOUR:

- ❖ **Financial Modeling and Investment Appraisal**
- ❖ **Analyzing the Financial Viability of Projects**
 - Principles of financial modeling for water and power projects
 - Estimating capital and O&M costs
 - Forecasting revenues, IRR, NPV, payback periods
 - Sensitivity analysis and risk-adjusted returns
 - Scenario modeling (e.g., demand variation, price shocks, policy shifts)
 - Case study: Build a simplified financial model of a power or water plant

DAY FIVE:

- ❖ **Case Studies, Sustainability, and Future Trends**
- ❖ **Lessons Learned and Strategic Investment Planning**
 - Real-world case studies of successful and failed projects (water desalination, solar farms, PPP water utilities, etc.)
 - ESG integration and sustainability considerations
 - Resilience planning for climate change impacts
 - Digital infrastructure, smart grids, and metering innovations
 - Strategic investment planning and country-specific challenges
 - Final group exercise: Designing a bankable infrastructure investment proposal
- ❖ **Course Conclusion**
- ❖ **POST-ASSESSMENT and EVALUATION**

Training Methodology:

This interactive training course includes the following training methodologies as a percentage of the total tuition hours:

- 30% Lectures, Concepts, Role Play

- 70% Workshops & Work Presentations, Techniques, Based on Case Studies & Practical Exercises, Gamification, Software & General Discussions
- Pre and Post Test

Training Certificate(s):

CMCT Internationally recognized certificate(s) will be issued to each participant who completed the course.

Training Fees:

TBA as per the course location - This rate includes participant's manual, hand-outs, buffet lunch, coffee/tea on arrival, morning & afternoon of each day.

Note: The 5% VAT (Value Added Tax), will be effective starting 01st of January 2018 as per the new regulation from the UAE Government. The VAT applies for all quotation both for local and abroad.

Group and Corporate Discounts:

- We offer group and corporate discounts on many courses. These discounts are available for clients who want to maximize their return on investment.

Individual Discounts:

- We offer individual discounts on many courses for people who are self-sponsored and make their payment in full and upfront at the time of registration

Training Timings:

Daily Timings:

07:45 - 08:00	Morning Coffee / Tea
08:00 - 10:00	First Session
10:00 - 10:20	Recess (Coffee/Tea/Snacks)
10:20 - 12:20	Second Session
12:20 - 13:00	Recess (Prayer Break & Lunch)
13:00 - 14:00	Last Session

For training registrations or in-house enquiries, please contact:

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