



**Course Outline for the Training Course on
Advanced Regulatory and Policy Insight**

Duration: 5 Days

+92 51 873 4525 | info@track4solutions.com | track4solutions.com

506-A, 5th Floor, Evacuee Trust Complex, F-5/1, Islamabad, Pakistan

Title: Advanced Regulatory and Policy Insight

Duration: 5 days

Course Description:

This training course is designed to provide in-depth knowledge of regulatory principles and models. The course examines key subjects including; an overview of telecom networks evolution and the correspondence of this evolution on policy and regulation, roles of the regulatory authorities or TRAs. The course also details interconnection, cost modeling, and licensing regimes in addition to network infrastructure access and numbering plans before summing up with market trends and challenges. This is a must attend reference course for professionals working in regulation, be it regulatory authorities or operators.

Course Objectives:

- Understand Correspondence of Network Evolution on Regulations and Policy Making
- Recognize the Regulatory Authority Role
- Comprehend Interconnection and its implications
- Understand the principles of Licensing Regimes
- Realize Network Infrastructure Access Principles
- Comprehend Number Plans and their Associated Regulatory Issues
- Understand the Radio Spectrum Principles and Regulatory Issues

Pre Requisite

- Basic understanding of Telecommunication Networks
- Basic Regulatory and Policy Knowledge
- Basic Economic and Business Analysis Understanding

Who Should Attend?

- Regulatory Affairs Specialists within Regulators or Governmental Departments
- Business Affairs Specialists within Incumbents, Operators and Service Providers

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Course Outline:

Module 1: Telecom Networks Evolution

1. Analog and Digital Principles
2. Mobile Network Emergence and Development
3. Fixed and Mobile Network Characteristics
 - a) Topologies and Construction
 - b) Technologies and Services
4. Next Generation Network Migration
5. Customer Quality of Service and Experience

Module 2: Policy and Regulation

1. Evolution of Communications
2. Corresponding Evolution of Policy
3. Regulation and Governance Approaches

Module 3: Aspects of Policy

1. Policy and Regulation Correlation
2. Objectives of Regulation: Social and Economic
3. Regulatory Authority and Stakeholder Engagement

Module 4: TRAs Role and Rules

1. Roles of the TRA
2. TRA Internal Arrangement and Organization
3. TRA Operational Process
4. TRA Intervention Explanation: When and How
5. The Regulator as a Competition Authority
6. Deregulation Rules

Module 5: Interconnection Definition

1. Key Concepts Behind Interconnection
2. Forms of Interconnection
3. Reasons to Interconnect
4. Interconnection Agreements
5. How is Interconnection Key to Competition
6. Interconnection Regime Establishment
7. Law and Licenses Functionality
8. TRA Role in Interconnection Regime

Module 6: Interconnection Cost Modeling

1. Interconnection Charges Debate
2. Cost Oriented Obligation Discussion
3. Costing Models and Methodologies
4. Application of Costing Methodologies: Fixed and Mobile Networks Differences

Module 7: Network Unbundling

1. Full Unbundling
2. Shared and Bit Stream Access
3. Costs and Benefits
4. Functional Separation

Module 8: Licensing Regimes

5. What is a Licensing Regime
6. Need for Licensing Regimes
7. Types of Licenses
8. License Procedures
9. License Fees
 - a) Fees Classification
 - b) Fees Controversy
 - c) Grounds of Fee Setup

Module 9: Provisioned Service Tariffs

1. Tariff Regulation
2. Should Tariffs be Regulated and to What Extent?
3. Regulator Role Definition
4. Tariff Determination Methodologies

Module 10: Network Infrastructure Access

1. End-User High Bandwidth Demand
2. Legacy to NGN Migration
3. Network Infrastructure Monopoly
4. Drivers to Network Infrastructure Access
5. Network Infrastructure Access Options
6. Impact of Network Infrastructure Access on Players
 - a) Impact on Regulators
 - b) Impact on Operators
 - c) Impact on Consumers

Module 11: Numbering Plans

1. Successful Numbering Plan Development
2. Effect of Numbers Allocation on Players
3. How to Manage Numbering Plans
4. Definition of Player Roles – Regulators / Operators
5. Future of Numbering Reflection

Module 12: Radio Spectrum Regulation

1. Definition of Spectrum Management Mechanisms
 - a. Liberalization
 - b. Harmonization
 - c. Spectrum Re-farming
 - d. Service and Technology Neutrality

- e. Spectrum Engineering
- f. Spectrum Allocation Methods
- 2. Spectrum Policy and Planning
- 3. Radio Spectrum Economics
 - a. Spectrum Pricing
 - b. Cost Recovery
 - c. Incentive Plans
 - d. Auctions

Module 13: Trends and Challenges

- 1. Course Re-cap
- 2. Technology Evolution Vs. Regulatory Challenges
- 3. Recent Issues facing Players