

Executive Development Program Strategies Decision Analysis

Principles of **Decision Analysis**

Course Outline

This course is designed to introduce the most important foundations of decision making. Participants will learn the fundamental techniques of analyzing decisions, conducting sensitivity analysis, valuing uncertain or risky alternatives, clarifying and structuring objectives, and creating good performance metrics.

Who Should Attend?

Strategy Directors

Investment Bankers

Corporate Finance Analysts

Product Development Managers

Business Consultants

Project Managers

Real Estate Investment Analysts

Credit Analysts

Insurance Analysts

Product Development Managers

Business Lawyers

Participants need to possess sufficient academic background and work experience to benefit the most from this course.



Day One - Analysis & Intuition

8:45 - 9:00	Registration
9:00 - 10:15	"Extinction by Intuition" vs. "Analysis Paralysis"
	Thinking Strategically
	How Do We Decide? How Should We Decide?
	The Mind of the Decision Maker
	Exercise: Judgment & Risk Assessment
10:15 - 10:30	Coffee Break
10:30 - 11:45	Analyzing Decisions
	The Case for a Decision Analysis Process
	Looking Forward & Reasoning Backward
	Making Simplifying Assumptions: "The Billionaire's Perspective"
	Exercise: Valuing Small Projects
11:45 - 12:45	Lunch Break
12:45 - 2:00	Getting the Goals Right
	Value-Focused Thinking
	Creating Decision Opportunities
	Exercise: Structuring Objectives
2:00 - 2:15	Coffee Break
2:15 - 3:30	Getting the Measures Right
	Picking Good Metrics
	Exercise: Comparing & Scoring

Day Two – Complex Decisions: Objectives & Optimization

9:00 - 10:15	Making Tradeoffs
	Resolving Conflicting Objectives
	Ranking & Weighting
	Exercise: Selecting a Supplier
10:15 - 10:30	Coffee Break



Day Two Cont. - Complex Decisions: Objectives & Optimization

10:30 - 11:45	Testing the Analysis
	Describing & Evaluating Risks
	Checking Sensitivity to Assumptions
	Mini-case: Comparing Larger Projects
11:45 - 12:45	Lunch Break
12:45 - 2:00	Avoiding Decision Traps
	The Most Common Types of Decision Failures
	Developing High-Quality Decision Making Organizations
	Exercise: Spotting – and Overcoming – Traps
2:00 - 2:15	Coffee Break
2:15 - 3:30	Searching for Solutions
	The Basics of Resource Pricing & Optimization
	Exercise: Filling the Supply Line

Day Three – Managing the Future: Risk & Uncertainty

9:00-10:15	Understanding Uncertainty
	Modeling Probability
	Exercise: Assessing Uncertainties & Risk
10:15-10:30	Coffee Break
10:30-11:45	Thinking about Risk
	Discounting for Risk Aversion
	Risk & Utility
	Exercise: Measuring Risk Tolerance
11:45-12:45	Lunch Break
12:45-2:00	Case study: Marhaba Engineering Ltd.
2:00-2:15	Coffee Break
2:15-3:30	Building & Testing Complex Decision Models
	Communicating about Scenarios and Risks
	Bayesian Updating & Artificial Intelligence
	Simulation & Advanced Sensitivity Analysis



Executive Development Program Strategies Decision Analysis

The Game of Business

Course Outline

This course is designed to introduce the most important foundations of decision making. Participants will learn the fundamental techniques of analyzing decisions, conducting sensitivity analysis, valuing uncertain or risky alternatives, clarifying and structuring objectives, and creating good performance metrics. In many cases powerful but easy-to-use Excel add-ins are used to extend participants' analytical reach.

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The Game of Business

Day One – Competition, Cooperation & Strategy

8:45 - 9:00	Registration
9:00-10:15	What is Strategic Behavior? An Introduction to Game Theory The Mind of the Strategist Exercise: Simple Strategic Interactions
10:15-10:30	Coffee Break
10:30-11:45	Mixing Cooperation and Competition The Prisoner's Dilemma The Evolution of Trust Mini-case: Gulf Supply Lines, Ltd.
11:45-12:45	Lunch Break
12:45-2:00	Playing the Games of Business Mixed Strategies: Using Unpredictability Games & Industry Structure Micromotives & Macrobehavior Exercise: Keeping them Guessing
2:00-2:15	Coffee Break
2:15-3:30	Getting Behind the "Yes" and "No" Haggling vs. Finding Mutual Gains Analyzing Negotiations – BATNAs and Reservation Prices The Negotiators' Dilemma



The Game of Business

Day Two - Negotiation, Group Decision & Strategic Moves

9:00-10:15	Distribution & Fairness Finding "Fair" Shares Dividing the Indivisible Exercise: Splitting the "Pie"
10:15-10:30	Coffee Break
10:30-11:45	Bidding Smart Analyzing Auctions & Bidding The Winner's Curse Exercise: Sealed Bid Auction
11:45-12:45	Lunch Break
12:45-2:00	Deciding to Decide Voting & Group Decisions Exercise: Who's the Boss?
2:00-2:15	Coffee Break
2:15-3:30	Making Strategic Moves Playing the Meta-Game Credible Commitments Changing the Game