PHASE I. FUNDAMENTALS OF SPECULATIVE TRADING

> THE BASICS

- Risk Taking Business
- Risk Management and Mitigation
- Risk Decision-Making
- Financial Market Risks
- Process of Exploiting Market Risk

> NATURE OF TRADING

- Trading: Art, Science and Mathematics
>Preparation:
- Maximum Adversity
- Emotional Orientation
- Losing Game
- Random Markets
- Best Loser Wins
- Risk Management
- Trading Partner
- Financial Boundary

> KEYS TO SUCCESS IN TRADING

- Avoiding the Risk of Ruin
- Embracing Trading's Holy Grail
- Expectancy
- Opportunities
- Pursuing Simplicity
- Treading where Most Fear
- Validation
- Know Thy Self
- Mastering Internal Domain
- Attributes of a Successful Trader
- PRACTICAL APPLICATION: Formulate a Trading Business Plan

> MACHINERY OF ELETRONIC TRADING

- Trading Infrastructure
- Broker, Exchange, Clearing house and Regulator
- Market Maker
- Market Participants: Commercial, Hedger, Speculator, Arbitrager
- PRACTICAL APPLICATION: Research Paper on Selected Topic

> MACRO ECONOMICS

- GDP
- The Wealth of Nations and Economic Growth
- Growth, Capital Accumulation, and the Economics of Ideas
- Savings, Investment, and the Financial System
- Unemployment and Labor Force Participation
- Inflation and Quantity Theory of Money
- Business Fluctuations
- Business Cycle Theories
- Monetary Policy and the Federal Reserve
- Fiscal Policy
-PRACTICAL APPLICATION: Macro Analysis on Past Financial Event

> MONEY AND THE FINANCIAL SYSTEM

-Money
-Banks
-Interest Rates
-Federal Reserve and Central Banking
-Federal Reserve's Balance Sheet and
the Money Supply Process
-Monetary Policy
-International Financial System and Monetary Policy (Optional)
-Spot Markets
--Equity
--Hard and Soft Commodity
--FX
--Precious Metal
--Energy
--Bonds
--Crypto

-Derivative Market
--Futures
--Forwards

--Swaps

--CFD

--Options

> DERIVATIVE

- Futures

- Options

- CFD

> TRADING MATHEMATICS

- Probability Theory

- Statistics

- Calculus: Derivative and Integral

- Differential Equation

- Linear Algebra

- Mathematical Modeling

> DATA ANALYSIS

- Data, Information, Intelligence and Knowledge

- Data Analysis Process

- Methods

--Statistical Analysis

--Time Series Analysis

--Descriptive Analysis

--Inferential Analysis

--Predictive Analysis

--Anomaly Detection

- Machine Learning:

Deeping Learning, Supervised and Unsupervised

- Research Terminal (OpenBB)

- R Programming

> MARKET INTELLIGENCE AND ANALYSIS

- Market Participants

- Fundamental Analysis

- Technical Analysis

- Quantitative Analysis
- Hybrid Analysis
- Understanding Volatility
- Understanding Risk
- Developing a Cohesive Market View
- PRACTICAL APPLICATION: Develop Analysis Framework on Selected Market

> MODELING OF MARKET BEHAVIOR
- Modeling
- Quantitative
- Qualitative
- Visual
- Market Microstructure
- PRACTICAL APPLICATION: Develop a Trading Model to Approximate observed Market Behavior

> TRADING OPERATION
- Speculation
- Marketing Making
- Arbitrage
- Hedging
- Evaluating Trades
--Creating a Trading Plan
- Executing a Strategy to Express Market View
--Directional Trading
--Spread Trading
--Option Trading
--Quantitative Trading
-Managing Positions
PRACTICAL APPLICATION: Develop a Trading Battle Plan

PHASE II. EXPLOITING RISK

STRATEGY DEVELOPMENT
> Trading Style
- Trading Mode
- Time Frames
- Choosing your Style

- Long-Term Trend Trading

- Short-Term Swing Trading

- Intraday Trading

> Market Selection

- Good Risk Management Attributes

- Good Trading Attributes

> The Three Pillars

- Method

- Money Management

- Psychology

> MONEY MANAGEMENT

- Martingale

- Anti-Martingale

--Single Contract no Money Management

--Fixed-Risk

--Fixed-Capital

--Fixed-Ratio

--Fixed-Units

--Williams Fixed-Risk

--Fixed-Volatility

PRACTICAL APPLICATION: Research the Kelly Formula

> METHOD DEVELOPMENT

-The Process

-Trading Edge

-Attributes of Winning Method

-Testing and Iteration

- PRACTICAL APPLICATION: Formulate Trading Idea/Thesis

> PSYCHOLOGY

-Managing Hope

-Managing Greed

-Managing Fear

-Managing Pain

-Maximum Adversity

- PRACTICAL APPLICATION: Watch 'Rouge Trader' and write an Essay

RISK-TAKING SYSTEM DEVELOPMENT

- Survey of System Engineering
- Computer Software Development
- Programming Concepts and C# Coding
- Trading Software's Familiarization
- Ninja Trader API
- Strategy Development Process
- PRACTICAL APPLICATION: Research on Trading Method/System

PHASE III. INTERNALIZE TRADING

- Guest Speaker, Professional Trader
- Setting Financial Goals and be SMART about it
- Internalize Trading framework through Deep Practice
-- Semi-Live Trading to Confirm Trading Edge
-- Performance Coaching
--Trade Reporting, Journaling and Improvement
-- Mentoring Junior traders
- Live Trading Demonstration
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