



Training Agenda

Structuring and Pricing Interest Rate, Cross Currency, Equity, Foreign Exchange, EQ Baskets, and FX Basket Derivatives Using Numerix CrossAsset XL

Day 1

8:30-9:00	<i>Coffee and breakfast</i>
9:00-9:15	Introduction to Numerix products and overview of system architecture
9:15-10:00	Overview of Numerix Template Library (Solutions) Understanding the structure of solutions and walk through examples Modifying solutions to accommodate optional features
10:00 - 10:15	<i>Coffee Break</i>
10:15-10:30	Defining and pricing a deal using the Solutions Wizard
10:30-12:00	Introduction to Numerix Object Structure and functional interface <ul style="list-style-type: none">• Static and Market Data Objects• Market Data Objects: Stripping the Yield curve from market data instruments• Other EQ/FX related curve constructions• Pricing vanilla deals using analytics
12:00-1:00	<i>Lunch break</i>
1:00-3:00	<ul style="list-style-type: none">• Constructing calibration instruments• Volatility surfaces and volatility cubes• Various ways to construct models and calibrate them to instruments• Evaluating model parameters by calibrating them to Swaptions and Caps
3:00 - 3:15	<i>Coffee Break</i>
3:15-5:15	Structuring of exotic deals <i>In depth understanding of deal structuring and pricing in Numerix: Step by step structuring and pricing a Capped Floater (stand alone)</i> <ul style="list-style-type: none">• Defining Events, indices and fixing history• Defining the payoff script for the deal• Line by line coding of Numerix scripts• Putting everything together—pricing and valuation of the deal• Quality Study and Numerix Scenario tools• Break-even analysis: determining the fair spread – the Solver object• Risk analysis and risk reports
5:30-6:00	Q&A

Day 2

8:30-9:00	<i>Coffee and breakfast</i>
9:00-9:15	Review of day one materials
9:15-10:00	Pricing a Bermudan Callable Inverse Floater Swap <ul style="list-style-type: none">• Setting up Coupon/Funding Step-ups and calculating Exercise Probabilities• Viewing model calibration instruments, cash flows, exercise probabilities Risk reports• Walk through of various sample IR exotic deal solutions
10:00-10:15	<i>Coffee Break</i>
10:15-12:00	Cross Currency models Structuring and Pricing Cross Currency deal: Bermudan callable CMS Spread Deals <ul style="list-style-type: none">• Setting up Notional/Coupon/funding step-ups• Risk analysis (generating exercise probabilities) and risk reports• Walk through of various sample CC exotic deal solutions• Creating portfolio of Exotic trades in Excel: Introduction to Solutions 2
12:00-1:00	<i>Lunch Break</i>
1:00-3:00	<ul style="list-style-type: none">• Setting up models for EQ/FX deals• Constructing Equity Market Data objects: Dividend Curves, EQ vols.• FX Spot and FX vol• Setting up EQ/FX instruments• Setting up EQ and FX models and calibrate them to corresponding market instruments Deal structuring, valuation and risk reports for exotic EQ/FX deals <ul style="list-style-type: none">• Volatility smoothing• Walk through sample EQ deals in Numerix
3:00-3:15	<i>Coffee Break</i>
3:15-4:15	Structure, price and run risk reports for a basket of EQ <ul style="list-style-type: none">• EQ Basket Construction: using array indices• Defining the payoff for basket deals: defining arrays in script• Setting up EQ basket models• Generating risk reports for Basket deals• Case Study: Valuation of Best of N Assets in a Basket of Equities• Quick overview of valuation of Mountain Range deals
4:15-5:30	Structure, price and run risk reports for a basket of FX Walk through of sample FX basket solutions Case Study: Valuation of Worst of/Best of FX Basket Deals
5:30-6:00	Q&A session