Numerix Training Agenda

Structuring and Pricing Equity Derivatives Using Numerix CrossAsset XL

Day 1

9:00–10:30	*Overview of Numerix products and system architecture* • Introduction to Numerix object structure and functional interface in Excel • Overview of Numerix Models and numerical methods *Configuration and settings* • Quick overview of global calendar, fixings, convention collections and their intended use *Market Data* • Walk through Numerix IR and EQ Market Data sheets; Yield Curves; Volatility surfaces; Dividend Curves etc. • Updating Bloomberg Market data sheets and creating new market data sheets on the fly • Numerix object and Function Interfaces
10:30–10:45	*Coffee Break*
10:45–12:30	*Pricing vanilla and semi-exotic deals via analytics* • **Case Study**: setting up and pricing an Equity European Call/Put via analytics using both the object interface and function interface • Capturing and displaying pricing results and Greeks on spreadsheet • Quick overview of pricing of other vanilla deals – Numerix Examples library • **Case Study**: setting up and pricing an Equity Barriers via analytics (KI/KO with variations on barriers) • **Case Study**: Setting up and pricing Equity futures via analytics
12:30–13:15	*Lunch Break*
13:15–15:30	*Understanding solutions from the Numerix Template Library* • Understanding the structure of out of the shelf solutions • ***Case Study:*** *Pricing an Equity Call Option using the template library* • Understanding the structure of the Numerix scripted deals; Model viewers: Viewing calibration results • Equity Model Setup and calibration to market instruments • Pricing with a different model –using solution builder to add a different model template • Risk analysis and risk reports • Report templates; Price convergence study and Numerix scenario tools; • **Walkthrough other Equity deal templates and examples** • Setup time slice observers to observe the underlying Equity index
15:30–15:45	*Coffee Break*
15:45–17:00 17:00-17:30	*Using payment streams to setup an Equity deal* ***In-depth understanding of deal structuring via scripting*** ***Case Study: Deal structuring, valuation and risk reports for an Asian Dual Call option*** • Defining the payoff script for the deal - line by line coding of Numerix scripts • Defining events, indices and fixing history; Pricing and valuation of the deal • Q&A

Day 2

9:00-10:30	*Review of day one materials* • Equity and FX market data sheets and model constructions • Walk through sample EQ deal templates and examples • The Model builder in CA XL
10:30–10:45	*Coffee Break*
10:45–12:30	• Pricing Equity Asian and American Options • Pricing Equity Lookback Options • Pricing Equity barrier options • Pricing Equity Digital Options • Pricing Quantos
12:30–13:15	*Lunch Break*
13:15–15:30	***Case Study: Structured note to capture the average of the highest intra-month Price*** *Structure the Payoff, and pricing the deal* • Defining the payoff for the deal. • Defining the events for the deal. • Setting up the kernel pricer and pricing the deal.
15:30–15:45	*Coffee Break*
15:45–17:00	***Case Study: Pheonix AutoCallable note linked to Underlying*** *Structure the Payoff, and pricing the deal* • Defining the payoff for the deal. • Defining the events for the deal. • Setting up the kernel pricer and pricing the deal.
17:00-17:30	Q&A