NEURON

List of executive training topics

- Build on demand (“bespoke”), from several hours to several days
- With a “basic” or “advanced” content, or a mixture of both
- In English or in French
- These programs are illustrated by many examples from real market operations, and with exercises (some of them needing a pocket calculator).

Topics:

financial markets products/instruments, spot and derivatives

Any kind of quoted assets, including Commodities

credit risk & credit derivatives

- credit risk, contractual (documentation) features, credit default swaps, iTraxx & CDX, credit linked notes, total return swaps
- securitization vs synthetic securitization
- credit derivatives pricing, risk management, payments & cash flows involved in credit derivatives

structured products

Typology, detailed presentation of structured products on currencies, interest rates, stocks & stock indexes

quantitative finance

- The yield curve
  Spot rates, forward rates, futures rates, 0-coupon rates, yield curve building & interpolations, riding the yield curve, use in derivative products calculation

- Mathematics of the financial markets
  - Actuarial calculus, discrete vs continuous rates, returns, performance measurement, CAPM, APT, variance & covariance, introduction to stochastic calculus and processes
  - Theoretical value of a stock, of a bond (incl. duration management)
  - Valuation (pricing) of derivatives
  - Modelling or forecasting financial markets: Wiener processes, ARMA, ARCH, GARCH, deterministic chaos, genetic algorithms, neural nets; strengths and weaknesses of pricing models for derivatives; behavioural finance. With simultaneous translation algebra → English.

asset management

- CAPM (MEDAF), portfolio theory
- Traditional portfolio management ("long only" – stocks & bonds): passive, tilted, sock picking
- Alternative asset management

- The four types of financial risk: market, liquidity, counterparty/credit and operational

- UCITS & AIFMD regulation, on financial risk management

- Absolute performance measures (Sharpe, Sortino, MDD, etc); relative performance measures (TE, IR)

- VaR calculation & use

not quoted assets

- Private Equity: concepts, portfolio management, valuation, risk

- Other not quoted assets and portfolio management: RE, infrastructure projects (equity, debt), etc.