## **Derivative Fundamentals Lesson Plan**

Each module consists of 3-6 lessons and includes exercises. A lesson typical lesson requires 20-30 minutes for participants to work through.

A Introduction	B Forwards	C Futures
A10 About this course	B10 What are forwards	C10 Forwards vs Futures
A20 What are derivatives	B20 Uses of forwards	C20 A worked Example
A30 Derivatives Map	B30 Basic forward pricing (Video)	C30 Uses of Futures
	B40 Cash vs. physical settlement	C40 Exercises
	B50 Exercises	
D Financing a Trade	E Forward price	F Total Return Swaps
D10 Financing a trade	E10 Forward price and carry costs	F10 Total return swaps
D20 Repo market	E20 Arbitrage-free pricing	F20 Hedging total return swaps
D30 Short selling example	E30 Pricing equity index futures	F30 Delta one products
D40 Exercises	E40 Pricing currency forwards	F90 Exercises
	E50 Risk in forwards and futures	
	E60 Exercises	
G Option basics	H Relative valuation (Put-call parity)	I Strategies and graphs
G10 Introduction to options	H10 Put-call parity	110 Breakeven graphs
G20 Option valuation – Calls	H20 PCP relationship	I20 Option strategies
G30 Option valuation – Puts	H30 PCP Arbitrage trade	I30 Leverage
G40 PV & Relative valuation	H40 Homework	I40 Homework
G50 Homework		

J Risk measures	K Derivative Fundamental Test
J10 Intro to risk measures	K10 Test (Multiple choice)
J20 Risk measures – Delta	
J30 Risk measures – Vega	
J40 Risk measures – Theta	
J50 Risk measures – Gamma	
J60 Homework	