Kx Fundamentals Course Outline

Day 1	
The Basics	An introduction to q. Starting sessions, defining variables, performing basic logic and arithmetic operations.
Data Types	Detailed overview of all q data types and appropriate usage.
Lists	Fundamental data structure of kdb+ upon which all advanced structures are based.
Functions	In-built and user-defined functions.
Dictionaries & Associations	Map type structures used for storing static, lookup or rule type information.
Execution Control	Conditional statements, loops, protected evaluation and debugging.
Basic Adverbs	Providing useful iterative and looping behaviour.
Day 2	
Tables	Most important data structure in q – how to define, populate, manipulate and query in-memory tables.
Keyed Tables	More sophisticated class of table.
qSQL	An introduction to SQL like syntax in q.
Advanced Table Access	q centric methods for table access, analysis and manipulation.
Basic Table Joins	In-built functions for combining tables.
Day 3	
Amend/Apply	The q operators '.' and '@' in relation to manipulating data in place.
Basic Web Interface	A short look at the kdb+ web interface.
Importing/Exporting Data	A detailed look at importing data from CSV files and various other formats.
Basic On-Disk kdb+	Basic overview for persisting and querying tables on disk.
IPC	A basic introduction to inter-process communication. Opening connections, synch/asynch messaging between q instances.
ODBC	ODBC as tool to connect between kdb+ and other database technologies.
Language Interfaces	Interfacing with Java, C#, C/C++ etc.