

High Frequency Trading Strategies

While in the media, HFT seems to be a collection of elusive strategies, the origins of HFT and the strategies used are actually quite down to earth. Provided the infrastructure is available, HFT is not much different from some manual trading strategies in the past, applied at a much different timescale and frequency. Insight into the requirements of HFT and the process in which HFT strategies are created is more and more a necessity in today's market place.

Contents of the course are as follows:

Introduction to High Frequency Trading

- History of HFT
- Discussion of benefits and costs of HFT
- The impact of market fragmentation

Requirements of High Frequency Trading

- Trading infrastructure
- Latency
- Multiple asset classes and locations

Types of HFT strategies

- Liquidity provision
- Cross market arbitrage
- Market Microstructure strategies

Building your own HFT strategy

- Strategy definition
- Backtesting your strategy
- Finetuning trading Parameters
- Risk Management
- Trading your strategy in real-time

Literature

- B. Johnson; Algorithmic Trading and DMA
- TPE course syllabus

All courses will include the use of professional trading and analysis software. The hands-on training environment will allow the participant to experience a real-time trading environment on our virtual exchange. This enables the inclusion of Trading Games (either click trading, position management or running your own algorithm) into the course curriculum.