

QTA™ Certification Syllabus

With the development of computer technology, the application of quantitative methods in trading and investment practice is becoming common and in-depth. Quantitative trading Analyst (QTA™) program is a professional qualification to those who engage in quantitative trading, which consists of Statistics, Quantitative Investment Theory, Python, Data Analysis, Machine Learning Strategy and etc. QTA™ certification program puts forward the professional knowledge and practical skills for today's quantitative trading practitioners. QTA™ certification program is divided into two levels: Assistant Quantitative Trading Analyst (AQTA) and Quantitative Trading Analyst (QTA™).

Assistant Quantitative Trading Analyst (AQTA) is the primary level, covering the Basic Knowledge in Quantitative Trading (Part I).

Quantitative Trading Analyst (QTA™) is a senior level, including Basic Knowledge in Quantitative Trading (Part I) and Professional Knowledge and Practice in Quantitative Trading (Part II).

Basic Knowledge in Quantitative Trading (Part I)

- Basic knowledge in Quantitative Trading
- Statistics Fundamentals
- Quantitative Investment Theory
- Python Fundamentals
- Python Data Analysis Basis
- Quantitative Trading Back-Testing Method

Professional Knowledge and Practice in Quantitative Trading (Part II)

- The Foundation of Database
- Implementation and Back-Testing of Python in Quantitative Trading Strategy
- AI and Machine Learning Strategies
- Quantitative Firm Offer Transaction
- Quantitative Risk Management