

SKILLS FRAMEWORK FOR FINANCIAL SERVICES SKILLS MAP - QUANTITATIVE TRADER				
Sector	Financial Services			
Track	Trading and Execution			
Occupation	Trader			
Job Role	Quantitative Trader			
Job Role Description	<p>The Quantitative Trader is responsible for building, implementing and improving quantitative trading models for the trading of all asset classes. He/She is required to develop profitable trading strategies using quantitative methods before deploying these models to execute trades.</p> <p>The Quantitative Trader possesses a quantitative background with a strong affinity for numbers and data. He is logical and highly analytical, and is able to make sense and draw patterns from quantitative data. He is a creative thinker who can pilot his quantitative expertise and understanding of financial markets to find and convert trading opportunities into profitable solutions. Depending on the markets traded, he may have to work outside office hours to execute trades.</p> <p>The Quantitative Trader possesses specific product knowledge and this can include either one or a combination of equities, fixed income, cash equivalents, derivatives, commodities, foreign exchange, cryptocurrencies and alternative investments.</p>			
Critical Work Functions and Key Tasks / Performance Expectations	Critical Work Functions	Key Tasks		
		Manage trades from inception to execution	Develop trading strategies using quantitative methods to maximise assets while minimising risks	
			Research and keep up-to-date on financial instruments of focus and/or sectors or industries of focus for trading	
			Monitor the market for news, potential disruptions and opportunities	
			Conduct pre-trade analysis and verifications on financial instruments and report findings	
			Conduct analysis of trade execution	
	Deploy algorithmic trading models and quantitative methods to execute trades			
	Establish compliance with regulations and execution policies	Learn and stay up-to-date with local trading regulations and best execution policies		
		Ensure trading procedures are governed within set trading limits		
		Ensure that the trades executed comply with organisation's execution policies and local trading regulations		
	Design trade methodologies and architecture	Use algorithmic methods to test trading policies and procedures to assess feasibility, usability and effectiveness and comply with them		
		Develop algorithmic and statistical trading models based underlying datasets and trading policies		
Design and conduct back-testing and simulation processes to validate proposed or developed models				
Skills and Competencies	Technical Skills and Competencies		Generic Skills and Competencies (Top 5)	
	Block Trading	Level 4	Computational Thinking	Advanced
	Data Analytics and Computational Modelling	Level 4	Digital Literacy	Advanced
	Data Collection and Analysis	Level 4	Sense Making	Intermediate
	Data Mining and Modelling	Level 4	Problem Solving	Intermediate
	Electronic Trading System Management	Level 4	Creative Thinking	Intermediate
	Emerging Technology Synthesis	Level 4		
	Ethical Culture	Level 4		
	Market Research and Analysis	Level 4		
	Post Trade Monitoring and Risk and Capital Management	Level 3		
	Price Verification and Profit Analysis	Level 4		
	Regulatory Compliance	Level 4		
	Standard Operating Procedures Development	Level 4		
Trade Processing, Fund Settlement and Treasury Transaction Processing	Level 4			

	Trading Management	Level 4		
Programme Listing	For a list of Training Programmes available for the Financial Services sector, please visit: www.skillsfuture.sg/skills-framework/financial-services			

The information contained in this document serves as a guide.