

PI ETA CONSULTING COMPANY

Credit Risk Management

The Alpha, #03-16A, 10 Science Park Road, Singapore Science Park II
Singapore 117684, Republic of Singapore
Tel: +65 634 100 10 | Fax: +65 634 100 20 | Email: marketing@pi-eta.com

OUTLINE FOR CREDIT RISK MANAGEMENT PROGRAM, A 2-DAY PROGRAM

- **Introduction**
 - Types of Enterprise-wide Risk Exposures
 - Market Risks
 - Definition
 - Examples
 - Credit Risks
 - Definition
 - Examples
 - Operational Risks
 - Definition
 - Examples
 - Embracing Good Practices that will bolster Operational Resilience

- **Impact of Enterprise-wide Risk Exposures**
 - Market Risks
 - Credit Risks
 - Operational Risks

- **Climate Change Risk**
 - Understanding Climate Change Risk
 - Understanding Carbon Neutrality, and how we can Play a Role in Achieving This
 - Understanding Net Zero Status, and how we can Play a Role in Achieving This
 - Importance of including Climate Change Risks in our Risk Assessment
 - Managing Climate Change Risks

- **Link Between CounterParty's Enterprise and Bank's Credit Risk Exposure**

- **Role of Credit Officers**

- **Role of Credit Risk Managers**

- **Concept of Value-at-Risk**
 - Introduction
 - VaR Confidence Levels and Horizons
 - VaR Confidence Levels
 - VaR Horizons
 - Back Testing
 - Stress Testing To Complement VaR
 - Conditional Value-at-Risk (C-VaR)

- **Credit Risk**
 - Definition of Credit Events
 - Bankruptcy
 - Failure to pay
 - Obligation/Cross Default

- Obligation/Cross Acceleration
- Repudiation/Moratorium
- Restructuring
- Downgrade
- Settlements Risk
 - The Failure of Bankhaus Herstatt (1974)
- Core Principles for Systemically Important Payment Systems
 - Handling Settlements Risk
- Pre-Settlement Risks
 - Elements of Credit Risk
 - Probability of Default
 - Definition of a Credit Default
 - Loss Given Default
 - Objectives
 - Components
 - Strategy
 - Exposure Given Default
 - Recovery Rates
- Credit Risk Rating
 - Inputs
 - Analysis
- Merton's Model For Estimating The Probability of Default
 - Derivation of the Model
 - Model Application
- Principles For The Management of Credit Risk
 - Establishing An Appropriate Credit Risk Environment
 - Operating Under A Sound Credit Granting Process
 - Maintaining An Appropriate Credit Administration, Measurement and Monitoring Process
 - Ensuring Adequate Controls Over Credit Risk
- **Basel Capital Accord**
 - Standardized Approach (a modified version of the existing approach)
 - Foundation Internal Rating Based Approach
 - Advanced Internal Rating Based Approach

For more information, please contact PI ETA Engagement Resource (PEER) Group at
 Tel: +65 634 100 10 | Fax: +65 634 100 20 | Email: marketing@pi-eta.com | Website: www.pi-eta.com

PROGRAM FACILITATOR

Dr. Jeffrey C. K. Lim

Ph.D., C.Sci., C.Math., FIMA, FCPS, FRM, PRM, B.Fel.

Dr. Jeffrey C. K. Lim, certified Financial Risk Manager (FRM¹) and certified Professional Risk Manager (PRM²), is currently the Managing Director of PI ETA Consulting Company, a Treasury & Financial Risk Management Consulting Company.

A Chartered Scientist (C.Sci.³), a Chartered Mathematician (C.Math.⁴) and an elected Fellow of the Institute of Mathematics and Its Applications (IMA), U.K. (FIMA), Jeff earned his Ph.D. in Stochastic Financial Modeling from the University of Cambridge in England. Jeff's research interest at Cambridge was in the area of Arbitrage Opportunities occurring in the Mispricing of Financial Options, and his original research culminated in the publication of his doctoral dissertation entitled: "Multi-period Mean-Variance Option Portfolio Strategies".

Jeff was an authorized Securities & Financial Derivatives Representative in London, having been certified by The Securities and Futures Authority (SFA) in England, where he started his career as a Derivatives Analyst with Nomura International in London, England. He subsequently joined NatWest Markets from London, England to become its Head of Currency Structured Products for South and South-East Asia. Jeff then moved to American Express Bank to become its Director of Structured Products, prior to assuming his current position.

Jeff has also contributed to the development and enhancement of talent and infrastructure for Singapore's financial center as a guest Professor at the National University of Singapore's Center for Financial Engineering, where he was responsible for the curriculum of its Master of Science degree program's core modules in Financial Derivatives and Treasury Management. In addition, Jeff has also been invited by the Nanyang Technological University and the Singapore Management University to share his expertise in a similar capacity. In recognition of Jeff's expertise and experience in the field of Treasury and Financial Risk Management, the University of New South Wales Asia appointed Jeff to be its first Adjunct Professor with the university's Division of Business and Humanities.

At PI ETA Consulting Company, Jeff was Principal Inventor in two of the Patents that the company currently holds – one in Treasury & Financial Risk Management Systems, and the other in Knowledge Management Systems.

Professionally, Jeff is a Fellow of both The Global Association of Risk Professionals (GARP), U.S.A. and The Professional Risk Managers International Association (PRMIA), U.S.A. He is also an elected Fellow of the Cambridge Philosophical Society, U.K. (FCPS) and a Life-time Member of The Cambridge Society, U.K. Jeff is also honoured to be a Fellow of The Cambridge Commonwealth Society, U.K., having been previously awarded the Cambridge Commonwealth Trust and the Shell Group of Companies Doctoral Research Scholarship.

¹ The *Financial Risk Manager* (FRM) designation is awarded by The Global Association of Risk Professionals (GARP), U.S.A.

² The *Professional Risk Manager* (PRM) designation is awarded by The Professional Risk Managers International Association (PRMIA), U.S.A.

³ The *Chartered Scientist* (C.Sci.) designation is awarded by The Science Council, U.K.

⁴ The *Chartered Mathematician* (C.Math.) designation is awarded by The Institute of Mathematics and Its Applications (IMA), U.K.

As a special recognition of Jeff's professional achievements, on 9 April 1999, Barons Who's Who conferred Jeff with the Barons Fellowship status, making him a Barons Fellow (B.Fel.). This award by their Charter, is limited to only the top 10% of those selected for publication in Barons Who's Who International.