

THE BANKING ACADEMY

Continuing Education for Practising Financial Services Professionals

The Asian Banker Advanced Diploma In Financial Modelling



5-7 December 2011, Singapore

Key Learning Outcomes

This programme is designed to achieve the following goals:

- Learn to construct models that apply to all functional areas: finance, accounting, marketing, human resources, budgeting, planning, statistical studies, forecasting, biological and chemical trials, econometrics
- Learn to build Securitization Models, Monte Carlo Analysis Models, Share Price Forecasting Models, Risk-Return Pricing Models, Consumer Finance Models, Budgeting Models, Vehicle Finance Models, and many more
- Examine several World Class financial Models and the code behind the Models
- Learn to employ the IPO Framework in constructing Models
- Learn to work with both Excel and User Forms as two distinct platforms for developing sophisticated financial models

Features of this training programme

- Each section of this comprehensive programme will be supported by individual and group exercises and case studies
- Limited class size: Class size is limited to 30 delegates to ensure effective one-to-one interactivity



Multiple Booking
Discount Price



All participants will
receive a Course
Certificate

Who Will Benefit

- Finance Directors / Financial Controllers / CFOs
- Business / Financial / Treasury / Market Analysts
- Corporate / Structured / Project Finance Officers
- Financial / Strategic Planners
- M&A Specialists
- Stock Brokers / Researchers
- Research Analysts / Economic Think-Tank
- Project / Commercial Management
- Business Development and Marketing
- Systems Analysts
- Budget Managers
- Inventory Managers
- Credit Risk / Treasury Managers
- Certified Public Accountants and Accounting Staff
- SAP and Oracle Users

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Special Group Rate

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“A properly designed model enables a situation to be easily examined and its dimensions intricately manipulated, to facilitate optimal decision making.”

The objective of the Financial Modelling Program is to expose participants to modeling technology and tools using ‘advanced’ features of Excel and more importantly, to its programming counterpart, ‘Visual Basic for Applications’ (VBA), for building sophisticated and useful models in all business areas: Finance, Accounting, Budgeting, Banking, Infrastructure Projects, Public policy, Hedging, Engineering, Marketing, Sales, Human Resources and so on. The actual functional area is of no consequence since it is the responsibility of the modeller to supply functionality, whether it is Accounting, Option Pricing, Statistics, Econometrics, Engineering, Finance, Relationship Building and others. The training will be of greatest use to senior executives in Government, Banking, Markets and Exchanges, Investing, Infrastructure Building and Management, Healthcare, Oil and Gas, Shipping, Airlines amongst others.

Thus, regardless of functionality, every situation is comprised of variables and the challenges in building a model are:

- a. To decompose a situation into constituent variables;
- b. To understand the relationships amongst variables;
- c. To map variables (and relationships) to a modeling ecosystem on a PC using Excel & VBA.

This program will focus on underlying technology that is at the heart of developing powerful and sophisticated models by exposing participants to relevant techniques and tools. Participants work extensively with Excel & VBA.

Pre-requisites

Participants require a laptop with Excel 2003 or higher and need to be very proficient in Excel. This program is not a “how to” on Excel. To work with the new ‘PowerPivot’ data analysis tool, Excel 2010 is required. Participants need to prepare for programs via background reading material. Case studies and problem solving workbooks are provided as part of the program on a Program DVD (950 MB). The program requires participants to make intensive use of Excel VBA, which is the solution platform. Course material is supplied in advance and includes, reading material, programme slides, case studies, scenarios and practical exercises.

About your course Director

Viswanath is a US based consultant who advises international organisations, including, the World Bank, the International Finance Corporation, and the Inter-American Development Bank. He and his specialist American and other colleagues have carried out a wide range of financial planning assignments across industries in more than 24 countries on behalf of institutional and private sector clients.

Viswanath holds a Masters degree in International Finance from Columbia University, New York and was awarded the prestigious ‘Maurice Feldman’ scholarship for financial writers by The New York Financial Writers Association.

He is a co-author of an authoritative text on Leasing “The Principles and Practice of Leasing” published from the U.K. in 1990. He has several published articles to his credit and is a regular contributor to the World Leasing Yearbook.

Viswanath is an official Beta tester for Microsoft Office and he has more than 14 years of experience in Financial Modeling and Microsoft Excel. He single-handedly developed ‘CapInvest’ a sophisticated financial model that is used by financial institutions to create a range of financial and savings products.

Register today

This is one of the best designed diploma programmes to teach participants to build and use effective models to enable situations and scenarios to be easily examined and their dimensions intricately manipulated to facilitate optimal decision making. This, regardless of the industry or topic under scrutiny.

Register today by completing the registration form below or contact Mr Gerald Rubio tel: +65 6236 6514 or email grubio@theasianbanker.com for more information.

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Programme Day 1 – An overview of modelling		Advanced Excel - Part I	
0815-0830	Registration	Overview of Advanced features of Excel and its significance in Financial Modelling <ul style="list-style-type: none">• Arrays• Functions• Names• Number formatting• Data validation• Excel Controls• Report Manager add-in• Data management• What-if analysis• Grabbing data from the Internet	
0830	Introduction to Financial Modelling <ul style="list-style-type: none">• Definition of financial modelling'• The six distinct components in financial modelling: process, situation, variables, relationships, dimensions, decision-making• What is not a financial model?• Advantages of the financial modelling framework• The IPO (Input, Processing and Output) framework• Examples of variables and relationships• Layout issues in building a financial model• Examples of types of models• Examples of models in non-finance areas: Marketing, Human Resources.	Excel Arrays <ul style="list-style-type: none">• Examples of use of arrays to solve advanced problems• Defining arrays• Entering array constants• Cells holding an array formula	
	Databases and Spreadsheets <ul style="list-style-type: none">• Difference between a database and a spreadsheet• Role of a database in relation to a spreadsheet• The need to intermingle in a solution• Examples of production quality relational databases• Other relational databases• Programming language for manipulating databases• The important role of excel as a flat file database• Excel architecture overview• Databases wrap-up	Excel Functions <ul style="list-style-type: none">• Sources of Excel's functionality• Types of Excel functions: built-in, Analysis ToolPak, user-defined, add-ins• 9 categories of built-in Excel functions• Functions: user defined• Functions: add-ins• Using a function and determining function parameters• Function return value• Creating a user defined function• Examples of some important functions• Using Edit / Go To / Special	
	Overview of Excel 2007 <ul style="list-style-type: none">• New features• The Ribbon• Excel 2007 statistics	Excel Naming Scheme <ul style="list-style-type: none">• Importance of names in Excel• Naming cells, constants and formulas• 3-D Names• Naming benefits• Names examples	
	Accessing Excel <ul style="list-style-type: none">• Two ways to access the functionality of Excel: GUI and Code• Overview of code• Objects• Collections• Platforms for building models: Worksheet and User Form	Excel Formatting Scheme <ul style="list-style-type: none">• Formatting values• Number formatting options• Custom number format• Examples of Custom Format• Formatting codes• Date and time formatting codes• Formatting examples	
	Modelling Platforms <ul style="list-style-type: none">• Example of employing a Worksheet as a platform for a modelling situation• Example of employing a User Form as a platform for a modelling situation	Data Validation <ul style="list-style-type: none">• Basics• Defaults• Lists• Custom• Prompts	
	Requirements for Developing Financial Models <ul style="list-style-type: none">• Model building concepts: variables, relationships, inputs, processing, outputs, layout issues• Technical skills in Excel: excel object hierarchy, object properties and methods, excel events, Visual Basic for Applications.	End of Day One	
		1730	

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Programme Day 2 – Advanced Excel – Part II	
0815-0830	Registration
0830	Excel Controls <ul style="list-style-type: none">• Types of Excel controls• Placing controls on a worksheet• Linking controls to cells• Attaching procedures to controls
	Excel Data Management Features <ul style="list-style-type: none">• Data management features in Excel• Five stages of data manipulation• The “Three I’s” of sources of data: Imported, Inputted, Internet• Data filter• Operators for filtering• Advanced filtering procedures• “D” functions• Data management examples
	Excel Pivot Tables Feature <ul style="list-style-type: none">• What is a Pivot Table?• Pivot table basics• Pivot table examples
	What-if Analysis <ul style="list-style-type: none">• Types of “What If?” Analysis in Excel: Data Tables, Goal Seek, Scenario Manager, Solver• Customized “What if?” analysis• Data Tables: one-variable and two-variable• Goal Seek• Solver• Solver algorithms and examples• Scenarios
	Introduction to Business Intelligence <ul style="list-style-type: none">• Using the new ‘PowerPivot’ in Excel 2010• Manipulating ‘relational’ databases such as Oracle, Sybase, SQL server, Access with the new PowerPivot• Example of a Relational Database with 2 million records, manipulated in Excel 2010
	Grabbing Data from Internet <ul style="list-style-type: none">• Web queries• Import commands• Creating a new Web querysssssss
	Learning To Program In Excel – Part 1 Introduction to Programming <ul style="list-style-type: none">• MS Office programming architecture
	<ul style="list-style-type: none">• Entry points into Excel• Graphical User Interface tools vs. code• Using objects, properties and methods to manipulate Excel• Examples of VBA Code• Ways to execute code• Built in modules vs. user modules• Benefits of Code• Executing Visual Basic code• Manipulating Excel with objects, properties and methods
	Excel Object Hierarchy <ul style="list-style-type: none">• Scope of object properties and methods• Object collections• Microsoft Excel object models• Object properties• Object methods
	Excel Event Procedures <ul style="list-style-type: none">• Events supported by Excel• Using Events to hook code
	Excel Macro Recorder <ul style="list-style-type: none">• Excel macro recorder• Hands-on programming of simple tasks in Excel
	Writing Visual Basic Code <ul style="list-style-type: none">• Overview of Visual Basic code• Parts of a Visual Basic procedure
	Visual Basic Decision Structures <ul style="list-style-type: none">• Visual Basic decision Structures• Visual Basic control Structures
	Visual Basic Controls <ul style="list-style-type: none">• Visual Basic controls• Visual Basic user forms• Visual Basic toolbox• Alternatives to forms Visual Basic Functions
	Useful Objects <ul style="list-style-type: none">• A Closer look at the Range Object• The Range Object: properties and methods• The Worksheet Object: properties, methods and events
	Visual Basic / Other <ul style="list-style-type: none">• Variables and Constants• Arrays• Operators
1730	End of Day Two

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Programme Day 3 – Modelling Projects

0815-0830 Registration

Building on the exposure to Advanced Excel and VBA in prior sessions, participants proceed to examine, interactively, the architecture of several real-life models and the code and features behind these models:

Exploring Refinancing Options For A Cash Generating going concern: A Securitization Scenario

This case study illustrates an example of an educational institute in an emerging market country, faced with the situation of either taking a loan from a bank or securitizing its fee income to finance a school building. Participants learn the value of building a Dashboard with relevant parameters to arrive at a decision as to the amount of fee income in future years to be securitized, the rate of interest to be paid to the bank, the number of years of fee income to be securitized and so on. This case clearly illustrates how VBA can transform an executive (or in this case, an accountant) from merely preparing projected financial statements of the scenario into a decision-making executive where all the relevant information is marshaled for an optimal decision.

Share Price Forecasting Model For A Hypothetical M&A Deal: Developing a Dashboard for an investment decision

This case illustrates the very important concept of a 'Black Box' in preparing a financial model that isolates important decision making information and variables to assist users to perform useful tasks without attention being diverted by large volumes of data; essentially, an executive is faced with a situation wherein he spends a considerable amount of time in building a fantastic spreadsheet that clearly isolates the IPO components of model-building: Inputs (variables), Processing (revenue forecasting engine, double-entry of items, and a trial balance) and Output (financial statements such as P&L, Balance Sheet, Sources and Application of Funds, Ratio Analysis); while the executive would have toiled endlessly in preparing this elaborate model, it is useless from a decision-making perspective. To be a true decision maker, the executive needs to visualize his spreadsheet as an 'engine' which requires no human intervention and then go about building a dashboard with all variables on hand and interactivity built into the dashboard via Goal Seek. Once this is accomplished, this executive is ready to take his project forward as he is now transformed from an executive into a true decision-maker.

Monte Carlo Simulation

An executive in the present-world lives in a World full of uncertainty; thus, to carry out a Project Appraisal using conventional tools is unrealistic since there is no way that the assumptions used in the Project Appraisal will remain a mute spectator. In other words, the IRR and NPV are unrealistic – to be meaningful, these parameters need to be the outcome of variables that are subject to probabilities. Enter Monte Carlo Simulation using an Investment Scenario: this case uses a simple project to focus on subjecting one of the assumption in the Project Appraisal (the revenue assumption) to a range of outcomes and then calculating the NPV of the project – this provides greater insights into the sensitivity of a project to changes in underlying variables. A Monte Carlo simulation is carried out by using a VBA Loop - participants get a ring-side view of the technicalities involved. This simulation involves 10,000 iterations with each iteration producing a NPV that corresponds to a probability value attached to Revenue.

Review and Question and Answer Session

Simulating a HP Financial Calculator

This model simulates the financial functions in a HP financial calculator using Visual Basic Code to illustrate the fact that Excel's built-in financial functions such as Present Value, PMT and the others alone cannot build the simulator - these functions can generate an answer given information on the remaining 4 variables - calculation of any of the functions given info on the remaining variables is ruled out because a cell can be used for entering either a formula or a constant (but not both, as required by the simulator). Thus, Excel functions alone cannot build the calculator – this case illustrates the use of VBA functions (PV, PMT, I, NPER, FV) in building a financial calculator.

Risk-Return Pricing Model

Financial Institutions in developing countries face the stark reality of bad debts and defaults in transactions, especially, to SMEs. How does a Financial Institution go about quantifying the Risk of a Transaction followed by translating Risk into an appropriate Risk Premium that is added to the Risk-Free rate for pricing a Transaction? This case study illustrates the innovative use of VBA Controls to visualize Risk from two perspectives and to translate Risk into Risk Premium. While the functionality of the model can be recreated using a basic spreadsheet, the capability to engage a user in the pricing process is un-paralled when the exercise is carried out using Controls that completely remove the mathematics and complexity of the pricing process from the user interface and replace this by intuitiveness of controls that spring to life when the two risk parameters are manipulated in the pricing exercise.

Vehicle Financing Model

This case is an excellent introduction to participants to get their hands dirty with VBA controls to develop an 'error resistant' model to price vehicle financing transactions using discounted cash flow components of (a) the amount to be financed; (b) the duration of the financing transaction; (c) the rate of interest on the transaction; (d) future value of vehicle (if any); the model enables a user to select from a dealer's inventory of used-cars using a drop-down control and to have a financing transaction for the vehicle ready to go, incorporating several features to minimize the risk of errors in entry.

An Automation Scenario

One of the most useful applications of VBA is the process of automating several tasks such that tasks are carried out repeatedly with no error, thereby leading to an increase in productivity. This example presents a simple situation of importing data from a database and modifying data to suit company requirements faced by a textile company which is broken down into FIVE distinct parts and participants learn to develop a VBA procedure to address each individual task. Once the five procedures are tested to ensure they work as expected, a Master Procedure is developed to call individual procedures to ensure these work in harmony, thereby transforming a time-consuming and error-prone process into a highly productive activity.

1730 End of Programme

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Registration Form

PLEASE FAX COMPLETED FORM TO +65 6236-6530 or email to grubio@theasianbanker.com

Dr / Mr / Mrs / Ms / Other:		Family Name:		Name:	
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Organisation:					
Address:					
Postal Code:		Country:			
Telephone:		Fax:		E-mail:	
Secretary's Name:			Secretary's Tel. & E-mail :		

AUTHORISATION

Name and Position (if different from above):

Signature:		Date:	
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REGISTRATION FEE PER DELEGATE (Banks)

Early Bird Rate (Register before 14th October)

Course Fee

☐ Yes, I would like to confirm my registration for 'The Asian Banker Advanced Diploma In Financial Modelling'

☐ USD 3,298

☐ USD 3,698

METHODS OF PAYMENT (Please include 7% GST to the payment amount)

☐ By Credit Card:
Please debit my ☐ MasterCard ☐ Visa ☐ Amex
{All credit card charges will be made in Singapore dollars at the exchange rate of USD\$1.00 = SGD\$1.24}

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in US dollar (USD) or in Singapore dollars (SGD) equivalent

☐ By Bank Transfer:
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(Please indicate "FMSG11" and the participant's name as reference)

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Payment must be made within 5 working days on receipt of invoice.

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TERMS AND CONDITIONS

Payment Terms

The Registration fee includes admission to training room, refreshments and lunches during the training course, course materials and online access to speakers' presentation. It does not cover accommodation or travel /personal expenses. Full payment of registration fee must be made within 5 working days upon receipt of invoice. The Asian Banker reserves the right to refuse admission if payment is not received in full and on time prior to the event.

Government taxes and bank charges are to be borne by the delegate. Unless otherwise stated in the booking form, payment must be made only in Singapore Dollars or US Dollars equivalent.

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If you are unable to attend, a substitute delegate is welcome at no extra cost. Please provide substitute delegate in writing. In the event that you have to cancel, The Asian Banker accepts cancellation only in writing and not over the phone. The Asian Banker observes the NO REFUND policy for cancellation. A set of documentation will be sent you.

In the event that The Asian Banker postpones the event, delegate payment on postponement date will be credited to a rescheduled date. In the event that The Asian Banker cancels the event, delegate payments at the date of cancellation will be used as credit for The Asian Banker's future events. The credit is valid for up to 12 months from the date of issuance.

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Fee:

- Includes admission to all training sessions, refreshments, lunches and training kit
- Does not include accommodation, travel expenses and hotel transfers

Note:

- Government taxes and bank charges are to be borne by the delegate.
- Exchange rate is pegged at USD\$1.00 = SGD\$1.24
- The workshop to be held in Singapore will be subjected to 7% GST for Singapore-based companies.

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