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FINANCE

A four-day career enhancing event with Viswanath Tumu

Financial Modelling

Acquire skills and insights to develop cutting-edge Financial Models in all functional areas!

4-7 September 2007, Intercontinental Hotel, Singapore

11-14 September 2007, Kowloon Shangri-La Hotel, Hong Kong



Viswanath Tumu, *Principal Consultant*, Vish Tumu Associates, USA, Advisor to World Bank, the International Finance Corporation, the Inter-American Investment Bank, Darby Overseas Investments; Co-author of the book entitled *"The Principles and Practice of Leasing"*; Beta Tester for Microsoft Office 2007

"Viswanath is a guru in the field and presents the topic with zest and enthusiasm and I believe that all participants, past and future, will be challenged to explore and operate at a different level in their future career."

Paul Swart, *Finance Director*, Outokumpu Technology (Pty) Ltd

Key benefits of attending this course:

- 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

Why you should attend this event?

The present day executive face situations comprised of thousands of variables that need to be efficiently processed for optimal decision, whether it is M&A, Option Pricing, Econometrics, Treasury, Consumer Finance, Private Equity, Human Resources or a Marketing Situation. An efficient model helps to capture a situation so that dimensions can be examined and decision making is optimal. Use of Excel as a solution has many limitations and a financial modeller needs to graduate to the next level of model building, using Visual Basic.

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Financial Modelling

Course objective

The Financial Modelling Program exposes participants to technology and tools for building models in finance, marketing, accounting, econometrics, public policy, and other areas - functional area is of no consequence since every modelling situation is envisioned to comprise of variables and the challenge in building a model is, (a) to decompose a situation into constituent variables, (b) establish valid relationships amongst variables, and (c) map variables (and relationships) to a modelling eco-system on a PC using Excel and its programming counterpart, Visual Basic for Applications.

A properly designed model enables a situation to be easily examined and its dimensions intricately manipulated to facilitate optimal decision making, whether it is a merger & acquisitions model, an option pricing model, a budget, a securitization model, a model to forecast operations of an enterprise, a tax collections model or a lease pricing model.



To build powerful models, participants must learn to work with advanced features of Excel and more importantly, its programming counterpart, Visual Basic for Applications. Therefore, this course devotes a substantial amount of time to discussing advanced features of Excel and Visual Basic and anchors the topics with examples of real-life models so that participants may simulate the process to develop models that address unique requirements.

About the Course Director

Vish Tumu is principal consultant of Vish Tumu Associates, a U.S. and India based consulting firm that advises international financial institutions, including the World Bank, the International Finance Corporation, and the Inter- American Development Bank. He has carried out assignments in more than 24 countries. Vish has more than 14 years of experience in financial modelling and Microsoft Excel, and has developed CapInvest a sophisticated financial model that is used by financial institutions to create a range of financial and savings products. He holds a Masters degree in International Finance from Columbia University, New York and is a registered Chartered Accountant from the Institute of Chartered Accountants of India. He is a co-author of a book on leasing "The Principles and Practice of Leasing" published in the U.K. in 1990, has published several articles, and is a regular contributor to the World Leasing Yearbook, published by Euromoney Publications, U.K. Reflecting his expertise with Excel, he was invited by Microsoft Corporation to beta test the new Office 2007. In the past, he worked with the ICICI Bank, the premier development bank in India and AF Ferguson & Co. (part of Ernst and Young), in India.

You must attend this course if you are:

- Finance Directors / Financial Controllers / CFO's
- Business / Financial / Treasury / Market Analysts
- Corporate / Structured / Project Finance Officers
- Financial / Strategic Planners
- M&A Specialists
- Stock Brokers / Researchers
- Research Analysts / Economic Think-Tank Executives
- 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

 "I enjoyed the manner in which the course material was set out. The trainer took us from the definition and concept of financial modelling, through advanced excel formula to an introduction of Visual Basic. This helped me understand exactly what could be done in both Excel and Visual Basic. The examples provided helped with much needed practice. Vish has a super knowledge of Excel and Visual Basic and he managed to convey this to his audience. With the training and some self study I am convinced that I will be able to build magnificent financial models in the future!" 

Desiree Schreiber-Lok, Group Financial Manager, Transman (Pty) Ltd

Course Agenda

DAY 1 - AN OVERVIEW OF MODELLING

Introduction to Financial Modelling'

- 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.

Databases and Spreadsheets

- 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

Overview of Excel 2007

- New features
- The Ribbon
- Excel 2007 statistics

Accessing Excel

- Two ways to access the functionality of Excel: GUI and Code
- Overview of code
- Objects
- Collections
- Platforms for building models: Worksheet and User Form

Modelling Platforms

- 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

Requirements for Developing Financial Models

- 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.

ADVANCED EXCEL - PART I

Overview of Advanced features of Excel and its significance in Financial Modelling'

- Arrays
- Functions
- Names
- Number formatting
- Data validation
- Excel Controls
- Report Manager add-in
- Data management
- What-if analysis
- Grabbing data from the Internet

Excel Arrays

- Examples of use of arrays to solve advanced problems
- Defining arrays
- Entering array constants
- Cells holding an array formula

Excel Functions

- 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

Excel Naming Scheme

- Importance of names in Excel
- Naming cells, constants and formulas
- 3-D Names
- Naming benefits
- Names examples

Excel Formatting Scheme

- Formatting values
- Number formatting options
- Custom number format
- Examples of Custom Format
- Formatting codes
- Date and time formatting codes
- Formatting examples

Data Validation

- Basics
- Defaults
- Lists
- Custom
- Prompts

Course Agenda

DAY 2 - ADVANCED EXCEL - PART II

Excel Controls

- Types of Excel controls
- Placing controls on a worksheet
- Linking controls to cells
- Attaching procedures to controls

Excel Data Management Features

- 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

- What is a Pivot Table?
- Pivot table basics
- Pivot table examples

What-if Analysis

- 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

Report Manager Add-In

- Functionality of Report Manager
- Examples

Grabbing Data from Internet

- Web queries
- Import commands
- Creating a new Web query

LEARNING TO PROGRAM IN EXCEL - PART I

Introduction to Programming

- MS Office programming architecture
- 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

- Scope of object properties and methods
- Object collections
- Microsoft Excel object models
- Object properties
- Object methods

Excel Event Procedures

- Events supported by Excel
- Using Events to hook code

DAY 3 - LEARNING TO PROGRAM IN EXCEL - PART II

Excel Macro Recorder

- Excel macro recorder
- Hands-on programming of simple tasks in Excel

Writing Visual Basic Code

- Overview of Visual Basic code
- Parts of a Visual Basic procedure

Visual Basic Decision Structures

- Visual Basic decision Structures
- Visual Basic control Structures

Visual Basic Controls

- Visual Basic controls
- Visual Basic user forms
- Visual Basic toolbox
- Alternatives to forms

Visual Basic Functions

Useful Objects

- A Closer look at the Range Object
- The Range Object: properties and methods
- The Worksheet Object: properties, methods and events

Visual Basic / Other

- Variables and Constants
- Arrays
- Operators

DAY 4 - MODELLING PROJECTS

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:

Securitization Model

Illustrating an example of an educational institute in India, faced with the situation of either taking a loan from a bank or securitizing its fee income to finance a school building

Course Agenda

Share Price Forecasting Model

Illustrating the 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

Monte Carlo Simulation

An Investment Scenario: Illustrating the development of a Monte Carlo Simulation Model to carry out an analysis of a project rate of return

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 but auto-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).

Risk-Return Pricing Model

Illustrating the use of a financial model that assists financial institutions in developing pricing for loans, leases and hire purchases

Vehicle Financing Model

Illustrating the development of an 'error resistant' model to price vehicle financing transactions using the five discounted cash flow components

Project Appraisal Model of a Leasing Investment in Ukraine

Provides insights into a sophisticated project appraisal model, LeaseEx, that assists financial institutions in forecasting leasing operations of a start-up leasing company over a 10-year horizon, constantly updating more than 180 reports in response to changes to any of the more than 2,000 variables that constitute the eco-system of this model

Review and Question and Answer Session

Resources Received by Participants

Participants will receive more than 2,000 pages of valuable background reading material, cases and program slides. In addition, participants will receive a complimentary copy of CapInvest, a financial model developed by the instructor using the same concepts that will be discussed in the course.

Teaching Method

This is an interactive program and participants will be expected to work on mini-assignments and exercises, either individually or as a group.

Practical information

Participants require access to a laptop with Microsoft Excel 2000 or higher. Participants also need to prepare for the course via background reading material supplied 4 weeks prior to the course.



About Informa Finance

Informa Finance is the Asian training division of the Informa Group a public listed company in the UK. Informa's main business is in the specialist information providing for global markets. We operate in 70 countries, 150 offices worldwide with over 7000 employees.

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Price	USD	Savings	USD	Savings	USD
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5% GST is applicable to all Singapore based companies for Singapore events.

Fee includes luncheons, refreshments and complete set of documentation. It does not include the cost of accommodation and travel.

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Cancellations received in writing 10 working days before the event will be entitled to a full refund less 10% administration fee. Thereafter, cancellations are not refundable. Participants may be substituted anytime.

HOTEL INFORMATION

Intercontinental Singapore

80 Middle Road, Singapore 188966

Tel: (65) 6 338 7600

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Contact Person: **Jolyn GWEE**,
Business Development Manager

Email: Jolyn_Gwee@interconti.com

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