

Decision Optimization Seminars

LEARN HOW TO MAKE THE BEST CHOICES IN OPTIMIZING PERFORMANCE MEASURES (E.G. MINIMIZE COST, MAXIMIZE PROFIT) WITHIN BOUNDARY CONDITIONS (E.G. RESOURCES CONSTRAINTS) USING ADVANCED ANALYTICAL METHODS AND MATHEMATICAL SOFTWARE CALLED SOLVERS

1-day Decision Optimization Seminar for Managers

<p>Who should attend: Senior managers and managers who are involved in decision making of investment, portfolio selection, risk analysis, strategic planning, facility site location, production planning and scheduling, product mix, resource allocation, manpower planning, assets optimization, cost reduction, etc.</p>	
<p>Expected learning outcome:</p> <ul style="list-style-type: none"> • Where Operations Research (O.R.) fits in the analytics big picture and how it helps decision making • Linear Programming (LP) concepts and modelling techniques • Understand how real-world business decision-making problems are formulated as LP models and solved with solvers • How to interpret the solver results and use it for managerial decision making • Changes required in organization 	<p>Agenda:</p> <ul style="list-style-type: none"> • Introduction to Analytics & O.R • LP and Solvers, model types • What managers need to provide to modellers • How biz problems will be modelled • Case studies • Tips for success and changes required in organization

3-day Decision Optimization Seminar

<p>Who should attend: Executives who are involved in what-if analyses and making decision recommendations for investment, portfolio selection, risk analysis, strategic planning, facility site location, production planning and scheduling, product mix, resource allocation, manpower planning, assets optimization, cost reduction, etc.</p>		
<p>Expected learning outcome:</p> <ul style="list-style-type: none"> • Where O.R. fits in the analytics big picture and how it helps decision making • LP concepts and modelling techniques • Algebraic expressions and spreadsheet modelling techniques with Excel Solver • Formulate decision-making problems as LP models and solve with solvers 		
<p>DAY 1</p> <ul style="list-style-type: none"> • Introduction to Analytics & O.R. • Algebraic Expressions and Spreadsheet Modelling • LP and Solvers • Manpower Planning, Blending Problems • Multi-period Inventory Modelling 	<p>DAY 2</p> <ul style="list-style-type: none"> • Multi-period Production Smoothing • Transportation, Assignment, Transshipment • Network Flow Models • Investment Problems • Goal Programming 	<p>DAY 3</p> <ul style="list-style-type: none"> • Integer Programming (0-1 and either-or) • Travelling Salesman Problem • Building scalable models with database interface • Review & solve problems brought by participants

Trainer



Dr. Anwar Ali has 27 years' experience in semiconductor industry, 2 years at Texas Instruments followed by 25 years at Intel Technology Sdn Bhd. He was a Principal Engineer for his last 5 years at Intel. He practised O.R. (simulation modelling and mathematical optimization) for 13 years at Intel.

His areas of expertise include high fidelity equipment simulation modelling, factory capacity modelling and optimization, and the relevant enterprise data integration involved.

Dr. Anwar Ali completed his B.Eng. in Mechanical Engineering (Industrial Engineering major) from Universiti Teknologi Malaysia (UTM) in 1988, M.Sc. in Decision Science from Universiti Utara Malaysia (UUM) in 2005, and D.Eng in Engineering Business Management from UTM in 2014.



Dr. Anwar Ali is currently the Principal Consultant of **The Optimization Expert PLT**. He conducts training seminars and provides consultancy in decision support modelling and setting up in-house O.R. capability. His email: anwarali@theoptimizationexpert.com, website: <https://www.theoptimizationexpert.com>, h/p: 012-4750395