Value Analysis, Value Engineering & Waste Elimination

Düsseldorf (Germany)

23 - 27 June 2025

UK Traininig
PARTNER

Value Analysis, Value Engineering & Waste Elimination

Introduction

Value engineering and value analysis is a competitiveness enhancing method that focuses on maximizing the value of a product process, project by making sure it fulfills the clients needs, at the lowest cost possible. The approach is systematic and includes a multi-step job plan, which in turn uses many tools to do product or process analysis.

The training provides an overview of the whole job plan, including each phase of the job plan, explains the different uses of the methodology, what possible goals can be achieved, and when value engineering is useful.

Course Objectives

- Acquire in-depth knowledge of value engineering.
- Introduce the overview of value engineering consisting of objectives, methodology, and techniques.
- Classify the practical applications of value engineering using the project scope budget, CIAPB and preparation of cost models, planning for value engineering services, function analysis, etc.
- Apply value engineering to products, processes as well as projects.
- Identify and measure the needs that products and processes have to fulfill.
- Identify the solution with the best value for all stakeholders.

Course Outlines

Day 1

Introduction

- The objectives of value engineering.
- The reasons for unnecessary costs.
- When to apply value engineering.
- VE methodology and techniques.
- Interface with other programs.
- Demonstrated impact of VE.

Practical applications project scope and budget

- Elements of the project budget.
- Prevalent budgeting techniques.
- Cost control.
- Defining project scope.
- Parameters and parameter cost.

Day 2

The capitalized income approach to project budgeting CIAPB

- CIAPB objectives.
- Measuring property value.
- The meaning of capitalization.
- The capitalization process.
- The need for cost control.

Preparation of cost models

- Making models.
- Construction cost models.
- Other resources.
- Types of models.

Day 3

Planning for value engineering services

- VE objectives.
- Level of effort.
- VE and total project management.
- Team selection.
- The VE job plan.

Function analysis

- Classifying function.
- Defining functions.
- Project level function analysis system techniques FAST diagram.

Day 4

Creativity and interpersonal skills

- Creativity and fixation.
- Interpersonal skills.
- Human factors.
- Creativity throughout the job plan.
- The generation of ideas.
- Delphi technique.
- Value engineering - a crafted strategy.

Life cycle costing LCC

- Decision-makers impact on LCC.
- LCC and total building costs.
- LCC terminology and examples.

Head Office: +44 7480 775 526
Email: Sales@blackbird-training.com
Website: www.blackbird-training.com

- LCC methodology.
- Application pf LCC to building.

Day 5

Integrating VE into the construction industry

- Planning and design.
- Construction.
- Maintenance and Operations M&O.

VE applications to risk assessment and analysis

- Risk assessment.
- Risk analysis.

Head Office: +44 7480 775 526
Email: Sales@blackbird-training.com
Website: www.blackbird-training.com

Blackbird Training Cities

Europe

Malaga (Spain)	Sarajevo (Bosnia and Herzegovina) Cascais (Portugal)	Glasgow (Scotland)
Edinburgh (UK)	Oslo (Norway)	

Annecy (France)	Bordeax (France)	Copenhagen (Denmark)
Birmingham (UK)	Lyon (France)	Moscow (Russia)

Stockholm (Sweden) (Netherlands)	Podgorica (Montenegro)	Batumi (Georgia)
London (UK)	Istanbul (Turkey)	Amsterdam

Düsseldorf (Germany)	Paris (France)	Barcelona (Spain)
Munich (Germany)	Geneva (Switzerland)	Prague (Czech)

Vienna (Austria)	Rome (Italy)	Brussels (Belgium)
Madrid (Spain)	Berlin (Germany)	Lisbon (Portugal)

Zurich (Switzerland)	Manchester (UK)	Milan (Italy)

UK Traininig
PARTNER

Blackbird Training Cities

USA & Canada

Los Angeles (USA)

Orlando, Florida (USA)

Online

Phoenix, Arizona (USA)

Houston, Texas (USA)

Boston, MA (USA)

Washington (USA)

Miami, Florida (USA)

New York City (USA)

Seattle, Washington (USA)

Washington DC (USA)

In House

Jersey,New Jersey (USA)

Toronto (Canada)

Africa

Baku (Azerbaijan) (Thailand)

Maldives (Maldives)

Doha (Qatar)

Manila (Philippines)

Bali (Indonesia)

Bangkok

Beijing (China)

Singapore (Singapore)

Sydney (Australia)

Tokyo (Japan)

Jeddah(KSA)

Riyadh(KSA)

Dubai (UAE)

Kuala Lumpur (Malaysia)

Kuwait City (Kuwait)

Pulau Ujong (Singapore)

Jakarta (Indonesia)

Amman (Jordan)

Beirut (Lebanon)

UK Traininig
PARTNER

Blackbird Training Cities

Asia

Kigali (Rwanda)

Cape Town (South Africa)

Accra (Ghana)

Lagos (Nigeria)

Marrakesh (Morocco)

Nairobi (Kenya)

Zanzibar (Tanzania)

Tangier (Morocco)

Cairo (Egypt)

Sharm El-Sheikh (Egypt)

Casablanca (Morocco)

Tunis (Tunisia)

UK Traininig
PARTNER

Head Office: +44 7480 775 526
Email: Sales@blackbird-training.com
Website: www.blackbird-training.com

Blackbird Training Clients

MANNAI CORPORATION — MANNAI Trading Company WLL, **Qatar**	GAC UNE FILIALE D'EGA — Alumina Corporation **Guinea**	Booking.com — Booking.com **Netherlands**	OXFAM — Oxfam GB International Organization, **Yemen**	Capital Markets Authority — Capital Markets Authority, **Kuwait**
WS — Waltersmith Petroman Oil Limited **Nigeria**	QNB — Qatar National Bank (QNB), **Qatar**	Qatar Foundation — Qatar Foundation, **Qatar**	AFRICAN UNION ADVISORY BOARD ON CORRUPTION, **Tanzania**	KFAS — Kuwait Foundation for the Advancement of Sciences — KFAS **Kuwait**
Reserve Bank of Malawi, **Malawi**	Central Bank of Nigeria **Nigeria**	Ministry of Interior Kingdom of Saudi Arabia — Ministry of Interior, **KSA**	Mabruk Oil Operations — Mabruk Oil Company **Libya**	Saudi Electricity Company — Saudi Electricity Company, **KSA**
BPKH Badan Pengelola Keuangan Haji — BADAN PENGELOLA KEUANGAN Haji, **Indonesia**	NATO **Italy**	eni — ENI CORPORATE UNIVERSITY, **Italy**	GULF BANK — Gulf Bank **Kuwait**	General Organization for Social Insurance — General Organization for Social Insurance **KSA**
Defence Space Administraion **Nigeria**	National Industries Group (Holding), **Kuwait**	Hamad Medical Corporation — Hamad Medical Corporation, **Qatar**	USAID — USAID **Pakistan**	STC — STC Solutions, **KSA**
North Oil Company — North Oil company,	EKEDC — EKO Electricity	Oman BROADBAND — Oman Broadband	UNITED NATIONS — UN.	Authority for Electricity Regulation, Oman — Authority for

UK Traininig
PARTNER

Head Office: +44 7480 775 526
Email: Sales@blackbird-training.com
Website: www.blackbird-training.com

Blackbird Training Categories

Management & Admin

Professional Skills
Finance, Accounting, Budgeting
Media & Public Relations
Project Management
Human Resources
Audit & Quality Assurance
Marketing, Sales, Customer Service
Secretary & Admin
Supply Chain & Logistics
Management & Leadership
Agile and Elevation

Technical Courses

Hospital Management
Public Sector
Special Workshops
Oil & Gas Engineering
Telecom Engineering
IT & IT Engineering
Health & Safety
Law and Contract Management
Customs & Safety
Aviation
C-Suite Training

International House 185 Tower Bridge Road London SE1 2UF United Kingdom

+44 7401 1773 35
+44 7480 775526

Sales@blackbird-training.com

www.blackbird-training.com

UK Traininig
PARTNER

Head Office: +44 7480 775 526
Email: Sales@blackbird-training.com
Website: www.blackbird-training.com