

FINANCE & ACCOUNTING | COURSE BROCHURE

Finance for Engineers, Project & Technical Professionals

5 days | Classroom training | English

SMART HORIZON

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Course content

Why attend

Engineering and technical decisions carry significant financial consequences. Equipment selection, project design, maintenance strategies, resource allocation, and capital expenditure all influence profitability, cash flow.

Engineering and technical decisions carry significant financial consequences. Equipment selection, project design, maintenance strategies, resource allocation, and capital expenditure all influence profitability, cash flow, and long-term business performance. Technical professionals who understand these financial implications can evaluate alternatives more effectively and contribute to investment decisions with greater confidence.
The Finance for Engineers, Project & Technical Professionals course develops financial knowledge specifically for professionals without a formal accounting background. Participants learn to interpret financial statements, evaluate engineering costs, develop budgets, forecast project cash flows, and assess capital investments using practical financial techniques. The programme connects engineering decisions with financial performance through Excel-based calculations, project scenarios, and investment appraisal exercises.

Professional Problems This Course Is Designed to Solve

• Difficulty translating subject knowledge into practical workplace decisions.
• Inconsistent approaches to the activities covered in the course outline.
• Lack of a structured plan for applying and reviewing new skills.

Course methodology

The programme combines instructor-led financial explanations, engineering case studies, Excel-based modelling exercises, financial statement analysis, cost estimation workshops, and investment appraisal simulations. Participants work with realistic technical project scenarios to understand the financial implications of engineering decisions and develop practical financial models for budgeting, forecasting, cost control, and capital investment evaluation.

Course objectives

By the end of this course, participants will be able to:
• Interpret financial statements and identify indicators of business performance
• Understand financial terminology used in engineering and project environments
• Analyze fixed, variable, direct, indirect, and lifecycle costs
• Prepare realistic engineering project budgets and cost estimates
• Apply break-even analysis and contribution margin calculations
• Forecast project expenditure, revenues, and cash flow requirements
• Evaluate capital investments using NPV, IRR, and payback techniques
• Assess financial risks and uncertainty in technical investment decisions



Course content

- Develop Excel-based financial models for engineering projects
- Present financially justified technical recommendations to management

Target audience

This course is suitable for:
- Engineers and senior technical specialists
- Project managers and project engineers
- Engineering and maintenance managers
- Technical department heads
- Construction and infrastructure professionals
- Project planning and cost control professionals
- Operations and production managers
- Procurement and technical commercial professionals
- Asset management and capital investment professionals
- Technical professionals involved in budgeting and investment decisions

Target competencies

Participants will develop competencies in:
- Financial literacy for engineers
- Financial statement interpretation
- Engineering cost analysis
- Project budgeting and cost estimation
- Cost-volume-profit analysis
- Cash flow forecasting
- Capital investment appraisal
- Financial modelling in Excel
- Lifecycle cost evaluation
- Financial decision-making

Course outline

Day 1: Financial Fundamentals and Business Performance for Engineers

09:00–09:45	Understanding how engineering activities, technical projects, and operational decisions contribute to financial performance



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09:45–10:30	Interpreting income statements, balance sheets, and cash flow statements from a technical management perspective
10:30–11:00	Distinguishing profitability, liquidity, cash generation, and financial sustainability
11:00–11:30	**Coffee break**
11:30–11:45	Distinguishing profitability, liquidity, cash generation, and financial sustainability (continued)
11:45–12:30	Analyzing financial ratios covering operating margins, return on assets, liquidity, and financial leverage
12:30–13:15	Understanding capital expenditure (CAPEX), operating expenditure (OPEX), depreciation, and their financial implications
13:15–14:00	Practical exercise: Reviewing a company's financial performance and identifying the implications for engineering investment decisions

Day 2: Engineering Cost Analysis, Budgeting and Profitability

09:00–09:45	Classifying direct, indirect, fixed, variable, and semi-variable costs in engineering and technical operations
09:45–10:30	Developing engineering cost estimates using analogous, parametric, and bottom-up estimating techniques
10:30–11:00	Preparing project budgets covering materials, labour, equipment, subcontractors, overheads, and contingencies
11:00–11:30	**Coffee break**
11:30–11:45	Preparing project budgets covering materials, labour, equipment, subcontractors, overheads, and contingencies (continued)
11:45–12:30	Applying contribution margin, cost-volume-profit analysis, and break-even calculations to technical operations
12:30–13:15	Evaluating lifecycle costs, maintenance expenditure, operating efficiency, and opportunities for cost reduction
13:15–14:00	Excel workshop: Building an engineering project cost model and evaluating the financial impact of alternative technical solutions



Course content

Day 3: Project Financial Planning, Cash Flow and Cost Control

09:00–09:45	Developing project financial plans that connect engineering schedules, resource requirements, expenditure, and payment milestones
09:45–10:30	Preparing cash flow forecasts covering initial investment, operating expenses, revenues, working capital, and project completion
10:30–11:00	Analyzing budget deviations, committed costs, actual expenditure, and projected final costs
11:00–11:30	**Coffee break**
11:30–11:45	Analyzing budget deviations, committed costs, actual expenditure, and projected final costs (continued)
11:45–12:30	Applying Earned Value Management concepts to evaluate cost performance and forecast project outcomes
12:30–13:15	Conducting sensitivity and scenario analysis to assess cost escalation, schedule delays, and changes in project assumptions
13:15–14:00	Case study: Investigating an engineering project experiencing budget overruns and developing a financial recovery plan

Day 4: Capital Investment Appraisal and Engineering Economics

09:00–09:45	Applying the time value of money to long-term engineering and infrastructure investment decisions
09:45–10:30	Calculating Net Present Value (NPV), Internal Rate of Return (IRR), and payback periods for capital projects
10:30–11:00	Comparing investment alternatives using discounted cash flow analysis and equivalent annual cost
11:00–11:30	**Coffee break**
11:30–11:45	Comparing investment alternatives using discounted cash flow analysis and equivalent annual cost (continued)
11:45–12:30	Evaluating equipment replacement, asset upgrades, energy efficiency investments, and make-or-buy decisions
12:30–13:15	Assessing financial uncertainty through discount rates, sensitivity analysis, and risk-adjusted investment scenarios
13:15–14:00	Practical workshop: Building an Excel investment appraisal model to compare alternative engineering capital projects



Course content

Day 5: Financing Technical Projects and Presenting Investment Decisions

09:00–09:45	Understanding internal funding, debt financing, leasing, and other financing options for engineering and capital projects
09:45–10:30	Evaluating the cost of capital and its influence on project investment decisions
10:30–11:00	Developing financially supported business cases with investment requirements, expected benefits, assumptions, and risks
11:00–11:30	**Coffee break**
11:30–11:45	Developing financially supported business cases with investment requirements, expected benefits, assumptions, and risks (continued)
11:45–12:30	Integrating financial analysis with technical feasibility, operational reliability, asset life, and strategic priorities
12:30–13:15	Presenting financial forecasts, investment comparisons, and recommendations to finance teams and senior management
13:15–14:00	Capstone exercise: Preparing and presenting an engineering investment proposal supported by cost estimates, cash flow forecasts, NPV and IRR analysis, risk assessment, and a management recommendation

The timings provided are estimates and may vary depending on the number of participants and the discussions taking place during the sessions. They are indicative only and do not constitute a binding commitment.

Dates, venues and fees

Current published course plans. Fees are per participant in GBP, excluding unconfirmed taxes.

Venue	Start date	End date	Fee (GBP)
Istanbul Confirmed dates	9 Nov 2026	13 Nov 2026	**£2,650.-**
Online Confirmed dates	9 Nov 2026	13 Nov 2026	**£1,250.-**



Course content

Dates, venues and fees (continued)

Venue	Start date	End date	Fee (GBP)
Amsterdam Confirmed dates	23 Nov 2026	27 Nov 2026	**£2,540.-**
Online Confirmed dates	23 Nov 2026	27 Nov 2026	**£1,250.-**
Singapore Confirmed dates	7 Dec 2026	11 Dec 2026	**£2,820.-**
Online Confirmed dates	7 Dec 2026	11 Dec 2026	**£1,250.-**
London Confirmed dates	14 Dec 2026	18 Dec 2026	**£2,450.-**
Online Confirmed dates	14 Dec 2026	18 Dec 2026	**£1,250.-**
Dubai Confirmed dates	11 Jan 2027	15 Jan 2027	**£3,150.-**
Online Confirmed dates	11 Jan 2027	15 Jan 2027	**£1,250.-**
Frankfurt Confirmed dates	25 Jan 2027	29 Jan 2027	**£2,650.-**



Course content

Dates, venues and fees (continued)

Venue	Start date	End date	Fee (GBP)
Online Confirmed dates	25 Jan 2027	29 Jan 2027	**£1,250.–**
Rome Confirmed dates	1 Feb 2027	5 Feb 2027	**£2,450.–**
Online Confirmed dates	1 Feb 2027	5 Feb 2027	**£1,250.–**
Kuala Lumpur Confirmed dates	8 Feb 2027	12 Feb 2027	**£1,450.–**
Online Confirmed dates	8 Feb 2027	12 Feb 2027	**£1,250.–**
Paris Confirmed dates	22 Feb 2027	26 Feb 2027	**£2,860.–**
Online Confirmed dates	22 Feb 2027	26 Feb 2027	**£1,250.–**
Istanbul Confirmed dates	8 Mar 2027	12 Mar 2027	**£2,650.–**
Online Confirmed dates	8 Mar 2027	12 Mar 2027	**£1,250.–**



Course content

Dates, venues and fees (continued)

Venue	Start date	End date	Fee (GBP)
Amsterdam Confirmed dates	22 Mar 2027	26 Mar 2027	**£2,540.-**
Online Confirmed dates	22 Mar 2027	26 Mar 2027	**£1,250.-**
Cape Town Confirmed dates	29 Mar 2027	2 Apr 2027	**£1,890.-**
Online Confirmed dates	29 Mar 2027	2 Apr 2027	**£1,250.-**
Singapore Confirmed dates	12 Apr 2027	16 Apr 2027	**£2,820.-**
Online Confirmed dates	12 Apr 2027	16 Apr 2027	**£1,250.-**
London Confirmed dates	26 Apr 2027	30 Apr 2027	**£2,450.-**
Online Confirmed dates	26 Apr 2027	30 Apr 2027	**£1,250.-**
Dubai Confirmed dates	10 May 2027	14 May 2027	**£3,150.-**



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Dates, venues and fees (continued)

Venue	Start date	End date	Fee (GBP)
Online Confirmed dates	10 May 2027	14 May 2027	**£1,250.–**
Frankfurt Confirmed dates	24 May 2027	28 May 2027	**£2,650.–**
Online Confirmed dates	24 May 2027	28 May 2027	**£1,250.–**
Vienna Confirmed dates	31 May 2027	4 Jun 2027	**£2,940.–**
Online Confirmed dates	31 May 2027	4 Jun 2027	**£1,250.–**
Kuala Lumpur Confirmed dates	14 Jun 2027	18 Jun 2027	**£1,450.–**
Online Confirmed dates	14 Jun 2027	18 Jun 2027	**£1,250.–**
Paris Confirmed dates	21 Jun 2027	25 Jun 2027	**£2,860.–**
Online Confirmed dates	21 Jun 2027	25 Jun 2027	**£1,250.–**



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Dates, venues and fees (continued)

Venue	Start date	End date	Fee (GBP)
Istanbul Confirmed dates	12 Jul 2027	16 Jul 2027	**£2,650.-**
Online Confirmed dates	12 Jul 2027	16 Jul 2027	**£1,250.-**
Amsterdam Confirmed dates	26 Jul 2027	30 Jul 2027	**£2,540.-**
Online Confirmed dates	26 Jul 2027	30 Jul 2027	**£1,250.-**
Cape Town Confirmed dates	2 Aug 2027	6 Aug 2027	**£1,890.-**
Online Confirmed dates	2 Aug 2027	6 Aug 2027	**£1,250.-**
Singapore Confirmed dates	9 Aug 2027	13 Aug 2027	**£2,820.-**
Online Confirmed dates	9 Aug 2027	13 Aug 2027	**£1,250.-**
London Confirmed dates	23 Aug 2027	27 Aug 2027	**£2,450.-**



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Dates, venues and fees (continued)

Venue	Start date	End date	Fee (GBP)
Online Confirmed dates	23 Aug 2027	27 Aug 2027	**£1,250.-**
Dubai Confirmed dates	13 Sept 2027	17 Sept 2027	**£3,150.-**
Online Confirmed dates	13 Sept 2027	17 Sept 2027	**£1,250.-**
Frankfurt Confirmed dates	20 Sept 2027	24 Sept 2027	**£2,650.-**
Online Confirmed dates	20 Sept 2027	24 Sept 2027	**£1,250.-**
Barcelona Confirmed dates	27 Sept 2027	1 Oct 2027	**£2,840.-**
Online Confirmed dates	27 Sept 2027	1 Oct 2027	**£1,250.-**
Kuala Lumpur Confirmed dates	11 Oct 2027	15 Oct 2027	**£1,450.-**
Online Confirmed dates	11 Oct 2027	15 Oct 2027	**£1,250.-**



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Dates, venues and fees (continued)

Venue	Start date	End date	Fee (GBP)
Paris Confirmed dates	25 Oct 2027	29 Oct 2027	**£2,860.-**
Online Confirmed dates	25 Oct 2027	29 Oct 2027	**£1,250.-**
Istanbul Confirmed dates	8 Nov 2027	12 Nov 2027	**£2,650.-**
Online Confirmed dates	8 Nov 2027	12 Nov 2027	**£1,250.-**
Amsterdam Confirmed dates	22 Nov 2027	26 Nov 2027	**£2,540.-**
Online Confirmed dates	22 Nov 2027	26 Nov 2027	**£1,250.-**
Rome Confirmed dates	29 Nov 2027	3 Dec 2027	**£2,450.-**
Online Confirmed dates	29 Nov 2027	3 Dec 2027	**£1,250.-**
Singapore Confirmed dates	6 Dec 2027	10 Dec 2027	**£2,820.-**



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Dates, venues and fees (continued)

Venue	Start date	End date	Fee (GBP)
Online Confirmed dates	6 Dec 2027	10 Dec 2027	**£1,250.-**
London Confirmed dates	13 Dec 2027	17 Dec 2027	**£2,450.-**
Online Confirmed dates	13 Dec 2027	17 Dec 2027	**£1,250.-**

Plan your next step

Dates, availability, exact venue, taxes, inclusions and payment terms require written confirmation. This brochure is not a quotation, registration, booking confirmation or visa invitation. Participants receive a Smart Horizon UK certificate of attendance; programmes are not externally accredited and do not award a professional qualification or designation. Confirm arrangements before booking travel.

For group or in-house training, contact our learning team to discuss your objectives and delivery arrangements.

Contact Smart Horizon

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View the latest course details online