

aractech

Global Learning for Operational Leaders

- Visual



DATA MANAGEMENT AND BUSINESS INTELLIGENCE | DMBI-037

Operations Analytics and Optimisation Models

Contact

+31 85 7444446
info@aractech.com
<https://aractech.com>

Address

Waarderweg 50, 2031PB Haarlem - Netherlands.

+31 85 7444446

info@aractech.com

Waarderweg 50, 2031PB Haarlem - Netherlands.

Course content

Why Attend

Operations decisions about capacity, inventory, scheduling and logistics involve complex trade-offs. Optimisation and analytics models help find better solutions than intuition alone.

This Aractech course covers operations analytics, linear programming, optimisation with spreadsheet solvers, simulation, inventory models, scheduling and routing problems, and communicating model results. Participants build optimisation models for business cases.

Course Methodology

- Model-building labs
- Case studies
- Solver exercises
- Simulation exercises
- Presentations

Course Objectives

- Explain operations analytics and optimisation concepts
- Formulate linear programming models
- Solve optimisation problems with spreadsheet tools
- Use simulation for uncertain processes
- Apply inventory and scheduling models
- Communicate model results to decision-makers

Target Audience

- Operations analysts
- Supply chain planners



aractech

Global Learning for Operational Leaders

Course content

- Industrial engineers
- Business analysts



+31 85 7444446



info@aractech.com



Waarderweg 50, 2031PB Haarlem - Netherlands.

Course outline

Detailed course outline

Day-by-day outline for Operations Analytics and Optimisation Models.

Day 1 - Operations Analytics

- 09:00-09:45 | Role of analytics
- 09:45-10:30 | Decision models
- 10:30-11:00 | Data requirements
- 11:00-11:30 | Coffee break
- 11:30-11:45 | Data requirements (continued)
- 11:45-12:30 | Use cases
- 12:30-14:00 | Exercise: Problem framing

Day 2 - Linear Programming

- 09:00-09:45 | Formulation
- 09:45-10:30 | Constraints and objectives
- 10:30-11:00 | Solver use
- 11:00-11:30 | Coffee break
- 11:30-11:45 | Solver use (continued)
- 11:45-12:30 | Sensitivity analysis
- 12:30-14:00 | Lab: Production planning model

Course outline

Detailed course outline

Day-by-day outline for Operations Analytics and Optimisation Models.

Day 3 - Simulation

- 09:00-10:17 | Simulation concepts
- 10:17-10:56 | Monte Carlo
- 10:56-11:00 | Queueing
- 11:00-11:30 | Coffee break
- 11:30-12:05 | Queueing (continued)
- 12:05-12:43 | Scenario analysis
- 12:43-14:00 | Lab: Capacity simulation

Day 4 - Inventory and Scheduling

- 09:00-09:45 | Inventory models
- 09:45-10:30 | Safety stock
- 10:30-11:00 | Scheduling
- 11:00-11:30 | Coffee break
- 11:30-11:45 | Scheduling (continued)
- 11:45-12:30 | Routing
- 12:30-14:00 | Lab: Inventory optimisation

Course outline

Detailed course outline

Day-by-day outline for Operations Analytics and Optimisation Models.

Day 5 - Communicating Results

- 09:00-09:54 | Presenting models
- 09:54-10:48 | Limitations
- 10:48-11:00 | Implementation
- 11:00-11:30 | Coffee break
- 11:30-12:12 | Implementation (continued)
- 12:12-13:06 | Model governance
- 13:06-14:00 | Capstone: Optimisation case



Available seminar dates

Live dates and pricing for Operations Analytics and Optimisation Models generated from the course details page.

Date	Location	Format	Fee
9 - 13 November 2026	Barcelona	Classroom	€2,815
9 - 13 November 2026	Rome	Classroom	€3,460
14 - 18 December 2026	Kuala lumpur	Classroom	€1,925
14 - 18 December 2026	Paris	Classroom	€3,825
18 - 22 January 2027	Barcelona	Classroom	€2,815
15 - 19 February 2027	Paris	Classroom	€3,825
15 - 19 March 2027	Frankfurt	Classroom	€1,875
19 - 23 April 2027	Barcelona	Classroom	€2,815
17 - 21 May 2027	Frankfurt	Classroom	€1,875
21 - 25 June 2027	Rome	Classroom	€3,460

Seminar dates

Available seminar dates

Live dates and pricing for Operations Analytics and Optimisation Models generated from the course details page.

Date	Location	Format	Fee
19 - 23 July 2027	Kuala Lumpur	Classroom	€1,925
16 - 20 August 2027	Geneva	Classroom	€4,315
20 - 24 September 2027	Amsterdam	Classroom	€2,830
18 - 22 October 2027	London	Classroom	€2,315
15 - 19 November 2027	Istanbul	Classroom	€1,978
20 - 24 December 2027	Vienna	Classroom	€3,225
9 - 13 November 2026	Online / Live	Online / Live	€1,815
9 - 13 November 2026	Online / Live	Online / Live	€1,815
14 - 18 December 2026	Online / Live	Online / Live	€1,815
14 - 18 December 2026	Online / Live	Online / Live	€1,815

Seminar dates

Available seminar dates

Live dates and pricing for Operations Analytics and Optimisation Models generated from the course details page.

Date	Location	Format	Fee
18 - 22 January 2027	Online / Live	Online / Live	€1,815
15 - 19 February 2027	Online / Live	Online / Live	€1,815
15 - 19 March 2027	Online / Live	Online / Live	€1,815
19 - 23 April 2027	Online / Live	Online / Live	€1,815
17 - 21 May 2027	Online / Live	Online / Live	€1,815
21 - 25 June 2027	Online / Live	Online / Live	€1,815
19 - 23 July 2027	Online / Live	Online / Live	€1,815
16 - 20 August 2027	Online / Live	Online / Live	€1,815
20 - 24 September 2027	Online / Live	Online / Live	€1,815
18 - 22 October 2027	Online / Live	Online / Live	€1,815



Available seminar dates

Live dates and pricing for Operations Analytics and Optimisation Models generated from the course details page.

Date	Location	Format	Fee
15 - 19 November 2027	Online / Live	Online / Live	€1,815
20 - 24 December 2027	Online / Live	Online / Live	€1,815