

OPERATIONS & SUPPLY CHAIN | COURSE BROCHURE

Finite Capacity Scheduling for Factories

5 days | Classroom training | English

SMART HORIZON

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Course content

Why attend

Production schedules that ignore capacity limits cause late orders, overtime and excess work-in-progress. This course teaches finite capacity scheduling: capacity modelling, sequencing rules, bottleneck management with theory of constraints, changeover reduction, scheduling tools and integrating schedules with material planning.

A realistic schedule is the foundation of on-time delivery. You will learn techniques to schedule factories within their true capacity.

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

Scheduling simulations, bottleneck exercises, tool demonstrations and case studies.

Course objectives

By the end of this course, participants will be able to:
• Model machine and labour capacity
• Apply sequencing and dispatching rules
• Identify and manage bottlenecks
• Reduce changeover impact on schedules
• Use scheduling software effectively
• Align schedules with materials and maintenance

Target audience

This course is suitable for:
• Production planners and schedulers
• Manufacturing managers
• Operations engineers
• Supply chain planners
• Plant supervisors



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Target competencies

Participants will develop competencies in:

- Capacity modelling
- Sequencing
- Bottleneck management
- Changeover reduction
- Schedule integration

Course outline

Day 1: Scheduling Fundamentals

09:00–10:08	Infinite versus finite scheduling
10:08–11:00	Capacity concepts
11:00–11:30	**Coffee break**
11:30–11:45	Capacity concepts (continued)
11:45–12:53	KPIs
12:53–14:00	Exercise

Day 2: Sequencing

09:00–10:08	Dispatching rules
10:08–11:00	Due date performance
11:00–11:30	**Coffee break**
11:30–11:45	Due date performance (continued)
11:45–12:53	Batch sizing
12:53–14:00	Simulation

Day 3: Bottlenecks

09:00–10:08	Theory of constraints
10:08–11:00	Drum-buffer-rope
11:00–11:30	**Coffee break**



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11:30–11:45	Drum-buffer-rope (continued)
11:45–12:53	Protecting the bottleneck
12:53–14:00	Workshop

Day 4: Changeovers and Tools

09:00–10:08	SMED principles
10:08–11:00	Scheduling software
11:00–11:30	**Coffee break**
11:30–11:45	Scheduling software (continued)
11:45–12:53	Data needs
12:53–14:00	Demonstration

Day 5: Integration

09:00–10:08	Materials and maintenance
10:08–11:00	Schedule adherence
11:00–11:30	**Coffee break**
11:30–11:45	Schedule adherence (continued)
11:45–12:53	Continuous improvement
12:53–14:00	Action plan

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.



Course content

Dates, venues and fees

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

Venue	Start date	End date	Fee (EUR)
Barcelona Confirmed dates	9 Nov 2026	13 Nov 2026	**€2,840.–**
Online Confirmed dates	9 Nov 2026	13 Nov 2026	**€1,250.–**
Dubai Confirmed dates	30 Nov 2026	4 Dec 2026	**€3,150.–**
Online Confirmed dates	30 Nov 2026	4 Dec 2026	**€1,250.–**
Cape Town Confirmed dates	14 Dec 2026	18 Dec 2026	**€1,890.–**
Online Confirmed dates	14 Dec 2026	18 Dec 2026	**€1,250.–**
London Confirmed dates	18 Jan 2027	22 Jan 2027	**€2,450.–**
Online Confirmed dates	18 Jan 2027	22 Jan 2027	**€1,250.–**
Cape Town Confirmed dates	8 Feb 2027	12 Feb 2027	**€1,890.–**



Course content

Dates, venues and fees (continued)

Venue	Start date	End date	Fee (EUR)
Online Confirmed dates	8 Feb 2027	12 Feb 2027	**€1,250.–**
Dubai Confirmed dates	1 Mar 2027	5 Mar 2027	**€3,150.–**
Online Confirmed dates	1 Mar 2027	5 Mar 2027	**€1,250.–**
Rome Confirmed dates	22 Mar 2027	26 Mar 2027	**€2,450.–**
Online Confirmed dates	22 Mar 2027	26 Mar 2027	**€1,250.–**
Barcelona Confirmed dates	5 Apr 2027	9 Apr 2027	**€2,840.–**
Online Confirmed dates	5 Apr 2027	9 Apr 2027	**€1,250.–**
Vienna Confirmed dates	26 Apr 2027	30 Apr 2027	**€2,940.–**
Online Confirmed dates	26 Apr 2027	30 Apr 2027	**€1,250.–**



Course content

Dates, venues and fees (continued)

Venue	Start date	End date	Fee (EUR)
Rome Confirmed dates	17 May 2027	21 May 2027	**€2,450.-**
Online Confirmed dates	17 May 2027	21 May 2027	**€1,250.-**
Amsterdam Confirmed dates	7 Jun 2027	11 Jun 2027	**€2,540.-**
Online Confirmed dates	7 Jun 2027	11 Jun 2027	**€1,250.-**
Paris Confirmed dates	28 Jun 2027	2 Jul 2027	**€2,860.-**
Online Confirmed dates	28 Jun 2027	2 Jul 2027	**€1,250.-**
London Confirmed dates	12 Jul 2027	16 Jul 2027	**€2,450.-**
Online Confirmed dates	12 Jul 2027	16 Jul 2027	**€1,250.-**
Istanbul Confirmed dates	2 Aug 2027	6 Aug 2027	**€2,650.-**



Course content

Dates, venues and fees (continued)

Venue	Start date	End date	Fee (EUR)
Online Confirmed dates	2 Aug 2027	6 Aug 2027	**€1,250.-**
Dubai Confirmed dates	23 Aug 2027	27 Aug 2027	**€3,150.-**
Online Confirmed dates	23 Aug 2027	27 Aug 2027	**€1,250.-**
Vienna Confirmed dates	13 Sept 2027	17 Sept 2027	**€2,940.-**
Online Confirmed dates	13 Sept 2027	17 Sept 2027	**€1,250.-**
Kuala Lumpur Confirmed dates	4 Oct 2027	8 Oct 2027	**€1,450.-**
Online Confirmed dates	4 Oct 2027	8 Oct 2027	**€1,250.-**
Rome Confirmed dates	18 Oct 2027	22 Oct 2027	**€2,450.-**
Online Confirmed dates	18 Oct 2027	22 Oct 2027	**€1,250.-**



Course content

Dates, venues and fees (continued)

Venue	Start date	End date	Fee (EUR)
Cape Town Confirmed dates	8 Nov 2027	12 Nov 2027	**€1,890.-**
Online Confirmed dates	8 Nov 2027	12 Nov 2027	**€1,250.-**
Frankfurt Confirmed dates	29 Nov 2027	3 Dec 2027	**€2,650.-**
Online Confirmed dates	29 Nov 2027	3 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 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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