

## Creating Business Simulations Workshop

Thank you for your interest in Powersim Software's introductory workshop in Bergen. Please sign up using the by mail or the contact us form on our web pages.

Your registration will be binding. You may cancel free of charge before the sign-up deadline. Cancellations after this date will be charged with the conference fee. Substitutes are welcome, if we are informed in advance. Powersim Software AS retains the right to cancel the workshop if the number of participants is too low.

### Workshop fee

This workshop is available at the price of € 1.200,- per person. Discount is available for additional participants from the same company and students.

The attendance fee covers presentations, conference material, lunch and coffee breaks. The attendance fee does not cover travel, accommodation or any other expenses.

The necessary Powersim Studio software will be available to you during the workshop. The software license will be valid 1 month after the workshop. The participants are recommended to bring their own laptop computer and an external mouse, as practical modelling sessions make a large portion of the workshop. We also have supply rental of equipment if needed.

### Venue and Accommodation

Information regarding the workshop location will be sent to you after the final registration date. Information about various accommodations and tourist attractions can be found through this web site:

<http://www.bergen-guide.com>

On the following two pages you will find the preliminary agenda for the two workshop days. If you require further information, please do not hesitate to contact us!

Best Regards,  
Sales Team

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## Creating Business Simulations with Studio 8

Day 1: 09:00 – 16:30

Section	Participant Objectives
Registration	<ul style="list-style-type: none"> <li>Registration, hand out of course material and pre-course questionnaire.</li> </ul>
Presentation	<ul style="list-style-type: none"> <li>The instructors and participants introduce themselves.</li> </ul>
Introduction to dynamic simulation	<ul style="list-style-type: none"> <li>Comparison between spreadsheets and Powersim models</li> <li>Basic stock and flow definitions.</li> <li>Learn to deduce dynamic behaviour from stocks and flows.</li> </ul>
Break	
Presentation of real-world cases	<ul style="list-style-type: none"> <li>See examples of complex simulators built by Powersim.</li> </ul>
Modelling basic feedback structures	<ul style="list-style-type: none"> <li>Learn how Powersim Studio calculates the values in a simulation model.</li> <li>Understand when to use different time-steps and simulation algorithms.</li> <li>Learn about units, the simulation calendar and multi-language facilities.</li> <li>Unit consistency in Studio</li> <li>Understand the common types of feedback structures and how to model them.</li> </ul>
Lunch	
Human resource modelling and concept of delays	<ul style="list-style-type: none"> <li>Modelling the flow of people through a human resource pipeline</li> <li>Fundamentals of delays and how to apply them</li> </ul>
Modelling non-linear relationships	<ul style="list-style-type: none"> <li>Incorporating empirical data with graphical converters</li> </ul>
Break	
Oscillations in operational processes	<ul style="list-style-type: none"> <li>Ordering and inventory models.</li> <li>Model with inventory adjustment.</li> <li>Adding capacity constraints.</li> </ul>

## Creating Business Simulations with Studio 8

Day 2: 08:30 – 16:30

Section	Participant Objectives
Soft factors in project management	<ul style="list-style-type: none"> <li>○ Tangible ('hard') and intangible ('soft') factors.</li> <li>○ Modelling stress in project management.</li> <li>○ Perceptions and delays.</li> </ul>
Developing full scale user interface	<ul style="list-style-type: none"> <li>○ Understand important design issues of Simulator applications.</li> <li>○ Create an interface with Studio using the built-in command button, input/output and multi-media objects.</li> </ul>
Break	
Add real-world complexity using arrays	<ul style="list-style-type: none"> <li>○ Understand how and when to use arrays.</li> </ul>
Lunch	
Connect external data to the model	<ul style="list-style-type: none"> <li>○ Understand different means of sharing Studio data with Excel.</li> </ul>
Scenario analysis	<ul style="list-style-type: none"> <li>○ Understanding the means we have within Powersim Studio to do scenario analysis.</li> </ul>
Break	
Applying dynamic modelling to a selected case	<ul style="list-style-type: none"> <li>○ Good modelling practice.</li> <li>○ Identifying and defining a problem.</li> <li>○ Analysing a problem.</li> <li>○ Creating a causal-loop diagram.</li> <li>○ Establishing a simple stock and flow model.</li> <li>○ Understand techniques to build confidence in models.</li> <li>○ Principles for the effective use of business simulations.</li> </ul>
Optimization	<ul style="list-style-type: none"> <li>○ Analysis with optimization</li> </ul>