



## Plant Simulation – Logistics and Production-Control

The course provides an introduction to the simulation of logistic systems and the depiction of production control processes.

### Possible Course Content

#### Warehousing

- Warehouse model
- Reorder point, safety stock, order size, material consumption
- Inventory and shortage costs, service level
- Economic Order Quantity
- Initialization, addition to stock, outward stock movements, storage statistics

#### Procurement

- Order rhythm method
- Reorder point procedure, multi container systems
- JIT, JIS
- Modeling of supplies

#### Database supported warehouse simulation

- Database based warehouse model (SQLite)
- Initialization, addition to stock, outward stock movements, deliveries
- Create statistics from databases

#### Warehouse modeling using the StorageCrane-object

- Addition to stock, outward stock movements, statistics
- Adjustment of the basic behavior
- Deliveries with the help of transporters

#### In-house transport

- Transport simulation with the help of transport time matrices
- Transport modeling with the help of transporter and track (forklift, AGV, Power and Free...)

#### Production control – Job shop production

- Working plan, job management, resource control
- Production control
- Optimal lot size

#### Kanban

- Single and multistage Kanban-systems
- Container- and card Kanban
- Use of the Plant Simulation Kanban library

#### Selected problems of flow production, production lines

- Overall system availability
- Sequence stability
- Chaku-Chaku
- Line-Feeding-concepts (JIT/JIS)

All the content will be conveyed based on examples from your production processes. Participants should have gained some initial experience with Plant Simulation and SimTalk.

The training course is based on the following book:  
Tecnomatix Plant Simulation (Springer, 2015)

#### Duration:

5 Days

#### Costs:

3.800 € \*

#### Location:

On-site in your company

\* The price does not depend on the number of course participants and includes all travel expenses.

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