

MPDV Campus

New ways to the effective factory
Consulting · Workshops · Research



Your partner for efficient
processes within production

New ways to the effective factory



Dipl.-Ing Dipl.-Wirt-Ing.
Jochen Schumacher
Head of MPDV Campus

Competition hardly leaves any space for unused potential within production. On today's conditions it is even worse.

Good news is that most of the companies still have considerable economic potential on the manufacturing level.. Consequently, stock and lead times can be reduced by 30-50% in most of the companies and thus working capital is reduced as well. As a consequence of this, process efficiency and liquidity increase. But also machine and equipment productivity (OEE index) still hold extensive potential. Moreover, we see further potential for improvement in optimizing and downsizing of information and planning processes as well as in motivating employees about new objectives. The aim is to achieve transparent, fast and economic processes.

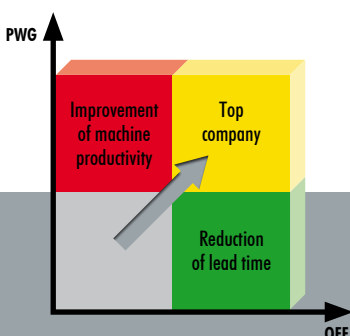
In this context, we are entirely convinced that the required process improvements within production do not only depend on external advisory skills but should actually be supported by the company's employees. Therefore, we train our customers in our tested methods.

We would be pleased to support you on your way to the effective factory providing our range of seminars and consulting services, which is described in more detail on the following pages!

We are looking forward to a good collaboration!

A handwritten signature in blue ink that reads "J. Schumacher". The signature is fluid and cursive.

Jochen Schumacher
Head of MPDV Campus



Become a TOP company . . .
. . . we will support you!

MPDV Campus Profile

MPDV Campus is a management consulting company for manufacturing companies. MPDV Campus was founded in 2004 as an independent sector of MPDV Mikrolab GmbH, a leading provider of MES solutions (Manufacturing Execution Systems). Our consulting approach aims at the optimum combination of process improvements through lean and TPM methods and modern IT (lean IT). Our range of services includes the analysis of production processes, the creation of customized target concepts and the realization of these concepts together with our customers.



In addition to our consulting services, we also train your employees in our methods during public seminars or in-house trainings in your company.

We safeguard our systematic advancement by continuous research projects with universities and research institutes.

MPDV Campus activities at a glance – components for your success!



MPDV Campus Consulting

With our range of services we accompany you on your way to the effective factory. For this purpose, we have developed eight consulting modules, which we choose subject to the required tasks and adapt to your special requirements. Don't miss the chance and benefit from our lean/TPM and IT know-how!



MPDV Campus Workshops

Companies cannot keep up with competition if they do not constantly improve and develop. Consequently, qualification of management and staff is a fundamental prerequisite. We will assist you with this by our extensive range of public or in-house seminars.



MPDV Campus Research & Publications

Only continuous development and improvement of existing methods and tools permanently safeguard the competitive advantage. Therefore, MPDV Campus researches intensively together with universities and research institutes. These projects are supported by the MPDV Development Fund (MDF).



MPDV Campus Consulting

Summary of our consulting modules

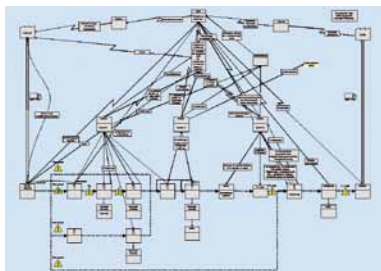
Subject to the required tasks, we choose the corresponding components from our range of consulting services and adapt them to your requirements. The individual modules have been thoroughly applied and tested. Thus, we guarantee continuity with regards to content.



Potential Check in Production

In most cases, the collaboration with our customers starts with checking the shop floor for potential. This potential check provides a quick overview of the overall process (flow of material and information) and available potential. A detailed value stream mapping constitutes the basis.

Result: Overview of available potential and suggestions for measures, which we would be pleased to implement together with you.



Lean Planning

Complexity of modern manufacturing can hardly be handled with conventional approaches to planning. Within the framework of a lean planning project, we analyze your planning processes incl. utilization of existing IT systems and develop new solutions for transparent and fast control cycles that ideally support your production process.

Result: Drastically reduced administrative efforts for planning, transparent and fast control cycles.



Lean Manufacturing

We accompany you on your way to lean manufacturing. Normally, such a project starts with a staff training to sensitize employees to the new approaches. In a next step processes are analyzed within the framework of a value stream mapping and a target value stream mapping is developed. As a team with your employees, we implement the new processes in your company.

Result: Stock reduction by 30-50%, reduction of lead times by 30-50%, increased liquidity, increase in flexibility.



Reduction of setup time

Setup times, which have not yet been reduced within the scope of an SMED project (Single Minute Exchange of Die), normally can still be reduced by 50-70%. This leads to enormous advantages: 1) smaller batch sizes and thus more flexibility, less stock and shorter lead times and 2) increased machine availability.

Result: Reduction of setup time by 50-70%, more stable setup times, higher process security, smaller batch sizes, increased machine availability.



5S

The 5S method considerably helps improve engineering and organization of workplaces. Thus, the 5S method constitutes an important basic module in TPM and Lean Manufacturing projects.

Result: Increased workplace efficiency, increase in quality, cleanness, employee motivation and workplace security



Total Productive Maintenance (TPM)

As productivity of many machines and equipment can usually still be increased considerably, the OEE index represents a central target value. We assist you in increasing the OEE index systematically through common measures: employee training, data collection and data evaluation, workshops to eliminate core problems, autonomous maintenance, planned/preventive maintenance and maintenance organization.

Result: Increase of productivity of machines and equipment by 10-15%, augmentation of process security and thus optimum planning of machines.



MES Utilization

Manufacturing Execution Systems (MES) are powerful tools to optimize production processes. The more the MES supports existing production processes and eliminates weak spots, the better the return-on-investment (ROI) will be, which in turn results in the employees to better accept it. Based on value stream mapping, we will develop a suggestion how to utilize MES to support your existing process in the best possible way.

Result: Analysis results, proposal as how to use MES as basis for MES requirements specifications.



Manufacturing Scorecard

Within the scope of a "Manufacturing Scorecard" project we assist you in configuring an individual key figure system based on processes for your production. Our assumptions are based on the company strategy (why should the customer buy from you?) as well as on possible weak spots in the production process (basis of value stream mapping). As soon as these two factors are known, we develop the correct key figures, build control cycles and implement the key figure system in your company.

Result: Transparency in production, support of CIP, ISO 9001, increased employee motivation.

According to your requirements, we offer all projects on a full time or part-time basis, we implement them for you or we just coach you. Moreover, we support you in the continuous process improvement by sporadic or regular check-up meetings.



MPDV Campus Workshops

Summary of our range of seminars



The key to success lies in constant training of management and employees. Don't miss the chance and benefit from our services offered. We provide all seminars as public workshops or in-house workshops in your company. Some of the courses are sponsored by up to 100% according to SGB III / AZWV.

Management Workshops



Added value without waste
From the unit cost trap to the efficient overall process.

Target group:
CEO, plant managers, executive managers from production, controlling and IT.



Manufacturing Scorecard
From the figure chaos to a key figure system based on processes

Target group:
CEO, plant managers, executive managers from production, controlling and IT.

Employee training / seminars for professionals



Reduction of lead time
From schedule difficulties and large stocks to the efficient workflow.

Target group:
Functional managers from production, shop floor control, work scheduling, foremen, operators.

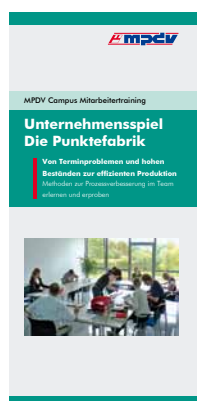


Increase of productivity of machines and equipment
From unplanned downtimes to planned productivity

Target group:
Functional managers from production, shop floor control, work scheduling, foremen, operators.

Certified SGB III / AZWV. Sponsoring possible with reduced working hours!

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Business game "The Dot Factory"
Learn and test process improvements

Target group:
Employees from all hierarchy levels and functional areas (from CEO/ executive managers to workers; production, work scheduling, planning, logistics, controlling, QA, etc.)

The seminars for professionals and the business game are well suited to accompany projects to sensitize employees to process optimizations. This encourages employees to better accept changes!

For further details, dates, prices and registration, please visit www.mpdvcampus.de

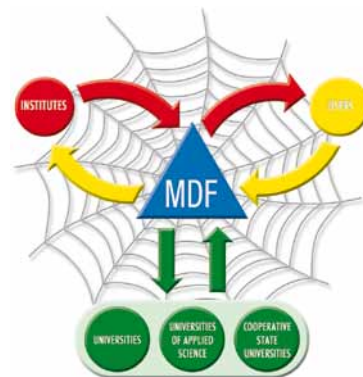
Certified SGB III / AZWV. Sponsoring possible with reduced working hours!



MPDV Campus Research

MPDV Development Fund (MDF)

Only continuous development and improvement of existing methods and tools can permanently safeguard the competitive advantage. With its MPDV Development Fund (MDF), MPDV constantly supports research projects exploring new ways within production management. This can be methodic approaches or IT functions supporting existing production principles more efficiently.



Process Learning Factory ("Prozesslernfabrik")

In this context, we operate a process learning factory together with the Technische Universität Darmstadt. We analyze how modern IT and methods from Lean Manufacturing can ideally be coordinated in a real production environment. The project aims at lean production and (!) IT processes.



Picture: Institut für Produktionsmanagement, Technologie und Werkzeugmaschinen, Technische Universität Darmstadt

MPDV Campus Publications

We publish our research results on a regular basis. The following best sellers among MPDV's technical publications have so far been published (selection):



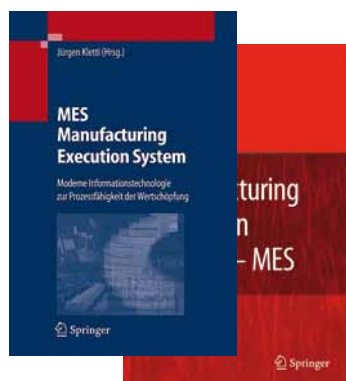
Konzeption und Einführung von MES-Systemen

Springer Verlag, 2007



RFID in Manufacturing

Springer Verlag, 2008



MES - Manufacturing Execution System

Springer Verlag, 2006

english edition:
Springer Verlag, 2007



Manufacturing Scorecard

Gabler Verlag, 2004



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Chicago / USA · Singapore / SGP