

## Joerg Roedle

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E-mail: roedle@gmx.net

has participated in the following openSAP course:

### Software Development on SAP HANA (Update Q4/2017)

Instructors: Thomas Jung and Rich Heilman

This three-week online course was held from November 15 through December 14, 2017. It comprised 3-4 hours of learning effort per week.

The course covered the following topics:

- Database Development
- Application Server Development
- Misc.: UI, Migration, and Lifecycle

Walldorf, Germany, December 2017

openSAP is SAP's platform for open online courses. It supports you in acquiring knowledge on key topics for success in the SAP ecosystem.

## Joerg Roedle

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E-mail: roedle@gmx.net

has participated in the following openSAP course:

### **Data Science in Action - Building a Predictive Churn Model**

Instructor: Stuart Clarke

This four-week online course was held from November 8 through December 14, 2017. It comprised 3-4 hours of learning effort per week.

The course covered the following topics:

- Case Study Introduction
- Prepare and Encode Data
- Develop, Evaluate, and Deploy Models
- Monitor Models and Improve Performance

Walldorf, Germany, December 2017

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## Joerg Roedle

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E-mail: roedle@gmx.net

has participated in the following openSAP course:

### **SAP Transformation Navigator in a Nutshell**

Instructors: Wiebke Thelo, Susanne Schneider, Marty Etzel,  
Peter Klee, and Cornelius Clauser

This online course was held from November 14 through December 13, 2017, and comprised 3 hours of learning effort.

The course provided an introduction to SAP Transformation Navigator including demonstrations to guide existing SAP customers and partners from their current IT setup to the new digital age with SAP S/4HANA.

Walldorf, Germany, December 2017

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## Joerg Roedle

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has participated in the following openSAP course:

### **In Action - Integration Framework for SAP Business One**

Instructors: Annemarie Kiefer, Miriam Rieger and Mario Fetzner

This four-week online course was held from November 7 through December 13, 2017. It comprised 4 hours of learning effort per week.

The course covered the following topics:

- Getting Started
- Scenario Design Basics
- Integration to SAP Business One
- Integrating SAP Business One Databases

Walldorf, Germany, December 2017

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## Joerg Roedle

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has participated in the following openSAP course:

### Enterprise Deep Learning with TensorFlow

SAP experts featuring special guests from JP Morgan Chase, NVIDIA, Google, and others

This six-week online course was held from October 23 through December 12, 2017. It comprised 3-4 hours of learning effort per week.

The course covered the following topics:

- Getting Started with Deep Learning
- Building TensorFlow Applications
- Deep Networks and Sequence Models
- Convolutional Networks
- Industry Applications of Deep Learning
- Advanced Deep Learning Topics

Walldorf, Germany, December 2017

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## Joerg Roedle

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E-mail: [roedle@gmx.net](mailto:roedle@gmx.net)

has participated in the following openSAP course:

### **SAP Business ByDesign Supply Chain Management**

Instructors: Iris Zimmermann, Stefan Resag, Marco Ullrich,  
Kavitha Sreejith and V Krishna Anaparthi

This five-week online course was held from October 10 through November 22, 2017. It comprised 3-4 hours of learning effort per week.

The course covered the following topics:

- Supply Chain Setup
- Product Planning, Buying, and Selling
- Product Manufacturing
- The Integrated Supply Chain
- Sales Interfaces & Supply Chain Transparency

Walldorf, Germany, November 2017

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## Joerg Roedle

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E-mail: roedle@gmx.net

has participated in the following openSAP course:

### Basics of Design Testing (Edition Q4/2017)

Instructor: Andrea Anderson

This five-week online course was held from October 11 through November 16, 2017. It comprised 1 hour of learning effort per week.

The course covered the following topics:

- Introduction to the Course
- Preparing a Test
- Moderating a Test
- Taking Notes
- Analyzing Notes



openSAP is SAP's platform for open online courses. It supports you in acquiring knowledge on key topics for success in the SAP ecosystem.

Walldorf, Germany, November 2017

## Joerg Roedle

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has participated in the following openSAP course:

### **Sustainability Through Digital Transformation**

Instructors: Daniel Schmid, Will Ritzrau and Barbara Fluegge

This three-week online course was held from October 16 through November 14, 2017. It comprised 4-6 hours of learning effort per week.

The course covered the following topics:

- Evolving Organizational Sustainability
- Digitization Creates Social Impact
- Digitization and Resource Productivity

Walldorf, Germany, November 2017

openSAP is SAP's platform for open online courses. It supports you in acquiring knowledge on key topics for success in the SAP ecosystem.



## Joerg Roedle

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has participated in the following openSAP course:

### **Unlock Your Digital Business with SAP HANA Enterprise Cloud**

Instructors: John (Jack) Morrison and Nicolle Gurule Sternberger

This online course was held from October 16 through November 14, 2017, and comprised 2-3 hours of learning effort.

This course provided an introduction on how SAP HANA Enterprise Cloud helps our customers act on their digital strategy as they begin their journey to the cloud and prepare to use SAP's current and future innovations.

Waldorf, Germany, November 2017

openSAP is SAP's platform for open online courses. It supports you in acquiring knowledge on key topics for success in the SAP ecosystem.

## Joerg Roedle

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has participated in the following openSAP course:

### Design Your First App with Build

Instructors: Ben Ceaser, Jaideep Godara and Gaby Lui

This four-week online course was held from October 4 through November 9, 2017. It comprised 2-4 hours of learning effort per week.

The course covered the following topics:

- Design Thinking: Starting with Empathy
- Point of View and Idea Generation
- Build: Prototype and Feedback
- Taking Your Vision into the World

Walldorf, Germany, November 2017

openSAP is SAP's platform for open online courses. It supports you in acquiring knowledge on key topics for success in the SAP ecosystem.

# Confirmation of Participation

Thought Leaders

## Joerg Roedle

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E-mail: roedle@gmx.net

has participated in the following openSAP thought leaders course:

### Information Security Management in a Nutshell

Instructor: Prof. Dr. Sachar Paulus

This thought leaders nutshell course was held from October 10 through November 08, 2017. It comprised 2-3 hours of learning effort and a course assignment.

The course covered the processes that need to be considered when implementing and using an Information Security Management System, and the legal requirements of such a system and how these can be implemented appropriately within an organization. It also gave guidelines on how to protect information with technical and organizational security controls.

Walldorf, Germany, November 2017

openSAP is SAP's platform for open online courses. It supports you in acquiring knowledge on key topics for success in the SAP ecosystem.



hochschule mannheim

openSAP  
Thought  
Leaders

## Joerg Roedle

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E-mail: roedle@gmx.net

has participated in the following openSAP course:

### **Be Visual! Sketching Basics for IT Business**

Instructors: Johanna Wittig and Anja Fehlau

This four-week course was held from September 6 through October 12, 2017. It comprised 2-3 hours of learning effort per week and 4 weekly assignments.

The course covered the following topics:

- Sketching Basics and Writing
- Flow Charts and Screen Sketches
- Materials and Objects
- People and Storyboards

Walldorf, Germany, October 2017

openSAP is SAP's platform for open online courses. It supports you in acquiring knowledge on key topics for success in the SAP ecosystem.

## Joerg Roedle

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E-mail: roedle@gmx.net

has participated in the following openSAP course:

### **SAP Fiori for iOS - Build Your First Native Mobile App**

Instructors: Hans-Jürgen Richstein, Andreas Schlosser and  
Marita Krümpelmann

This four-week online course was held from August 29 through October 4, 2017. It comprised 4-5 hours of learning effort per week.

The course covered the following topics:

- Getting Started with SAP Cloud Platform SDK for iOS
- OData Back-End Connectivity
- SAP Fiori for iOS User Experience
- Advanced Topics and Deployment

Walldorf, Germany, October 2017

openSAP is SAP's platform for open online courses. It supports you in acquiring knowledge on key topics for success in the SAP ecosystem.

## Joerg Roedle

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E-mail: roedle@gmx.net

hat an dem folgenden openSAP Kurs teilgenommen:

### Bereit für die Digitalisierung? Digitales Talent Management

Der achtwöchige Kurs fand vom 08. Mai bis 04. Juli 2017 statt.  
Der Lernaufwand betrug 2-4 Stunden pro Woche.

Der Kurs behandelte die folgenden Themengebiete:

- Digitales Talent Management – Intro
- Big Data und Technologie
- Herausforderungen: Datenschutz & Ethik
- Moderne Konzepte digitaler Führung
- Talent Management Software
- Gameplan Challenge (Peer-bewertet)

openSAP ist die SAP-Plattform für offene Online-Kurse. Hier können Sie Wissen zu wichtigen Themen erwerben, die für den Erfolg im SAP-Umfeld entscheidend sind.

Walldorf, Juli 2017

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BUSINESS SCHOOL

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OF MANNHEIM

SAP

tts  
knowledge  
matters.

## Joerg Roedle

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E-mail: roedle@gmx.net

has participated in the following openSAP course:

### Designing Business Models for the Digital Economy

Instructors: Tobias Schimmer, Uli Eisert and Julia Doll

This six-week online course was held from April 26 through June 23, 2017. It comprised 3-5 hours of learning effort per week. In addition the course offered the option to participate in group exercises along a real business case with moderator feedback.

The course covered the following topics:

- Introduction to Business Model Innovation
- Business Model Baseline
- “Analyze & Improve” Your Business Model
- “Challenge & Change” Your Business Model
- “Test & Verify” Your Business Model with Minimum Viable Products (MVP)
- “Evaluate & Decide” on Your Business Model

Walldorf, June 2017

openSAP is SAP's platform for open online courses. It supports you in acquiring knowledge on key topics for success in the SAP ecosystem.

# Confirmation of Participation

Thought Leaders

## Joerg Roedle

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E-mail: roedle@gmx.net

has participated in the following openSAP thought leaders course:

### Reimagining the Future: A Journey Through the Looking Glass

Instructor: Frank Diana

This two-week thought leaders course was held from May 23 through June 21, 2017. It comprised 2-3 hours of learning effort per week.

The course covered the following topics:

- Unleashing the Power of Reimagination
- The Journey Forward

Walldorf, June 2017

openSAP is SAP's platform for open online courses. It supports you in acquiring knowledge on key topics for success in the SAP ecosystem.

  
**TATA** CONSULTANCY SERVICES

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**Thought**  
Leaders



# Confirmation of Participation

Thought Leaders

## Joerg Roedle

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E-mail: roedle@gmx.net

has participated in the following openSAP thought leaders course:

### Liquid Legal: Transforming an Industry

Instructors: Kai Jacob, Dr. Dierk Schindler and  
Dr. Roger Strathausen

This two-week thought leaders course was held from May 16 through June 14, 2017. It comprised 2-3 hours of learning effort per week.

The course covered the following topics:

- Liquid Legal Principles
- Liquid Legal Players

Walldorf, June 2017

openSAP is SAP's platform for open online courses. It supports you in acquiring knowledge on key topics for success in the SAP ecosystem.

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Leaders

**Joerg Roedle**

roedle@gmx.net

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hat teilgenommen am zweiwöchigen Workshop

## Einführung in eine Java- Programmierungsumgebung (IDE)

von Thomas Staubitz und Ralf Teusner

Der Kurs behandelte die folgenden Inhalte:

- Grundlagen der Java Build Chain (Compiler, Interpreter)
- Grundlagen des Deployments (Java Archives, Packages, Einbinden von Bibliotheken)
- Umgang mit dem Debugger
- Einbinden von Plugins am Beispiel von Code- und Style-Checkern (FindBugs, CheckStyle)
- Umgang mit der Processing-Bibliothek
- Einführung in die Versionsverwaltung mit git

Anhand der praktischen Umsetzung eines Java-Projekts erlernten die Teilnehmer den Umgang mit der Java-IDE Eclipse.

Durch den Zugriff auf mindestens 50% der Lernmaterialien hat der Teilnehmer die Voraussetzung für den Erhalt dieser Bescheinigung erfüllt.

Potsdam, am 31. Mai 2017

# Confirmation of Participation

Thought Leaders

## Joerg Roedle

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E-mail: roedle@gmx.net

has participated in the following openSAP thought leaders course:

### The Impact of Digitization on Leadership and Work

Instructor: Frank Schomburg

This two-week thought leaders course was held from April 24 through May 23, 2017. It comprised 2-3 hours of learning effort per week.

The course covered the following topics:

- Management of Unpredictability
- Future of Leadership and Work

Walldorf, May 2017

openSAP is SAP's platform for open online courses. It supports you in acquiring knowledge on key topics for success in the SAP ecosystem.



## Joerg Roedle

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E-mail: roedle@gmx.net

has participated in the following openSAP course:

### **SAP Solution Manager for SAP S/4HANA Implementation in a Nutshell**

Instructors: Featuring experts from Product Management for SAP Solution Manager

This online course was held from April 12 through May 11, 2017 and comprised 2 hours of learning effort.

This course provided you with an overview on SAP Solution Manager 7.2 as delivery platform for SAP S/4HANA implementations and covered topics such as SAP Solution Management strategy, Planning an SAP S/4HANA implementation, Business Process Modeling, Test Management, and Build Orchestration.

Walldorf, May 2017

openSAP is SAP's platform for open online courses. It supports you in acquiring knowledge on key topics for success in the SAP ecosystem.

## Joerg Roedle

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E-mail: roedle@gmx.net

has participated in the following openSAP course:

### **SAP Business ByDesign Financials**

Instructors: Melanie Kilian, Sissi Ruthe, Pooja Ramarathnam  
and Carsten Warnecke

This five-week online course was held from March 1 through April 13, 2017. It comprised 3-4 hours of learning effort per week.

The course covered the following topics:

- Introduction to SAP Business ByDesign
- Goods and Services Value Chain
- Monetary Value Chain (Part 1)
- Monetary Value Chain (Part 2)
- Period-End Closing

Walldorf, April 2017

openSAP is SAP's platform for open online courses. It supports you in acquiring knowledge on key topics for success in the SAP ecosystem.

# Confirmation of Participation

Partner Course

**Joerg Roedle**

E-mail: roedle@gmx.net

has participated in the following openSAP course:

## **Empathy in Motion: The Power of Employee Volunteering**

Instructor: Chris Javis

This course was held from March 14 through April 12, 2017. It comprised approximately 4 hours of learning, and 2 assignments.

The course covered the following topics:

- Changing Hearts and Minds
- Leading the Change

openSAP is SAP's platform for open online courses. It supports you in acquiring knowledge on key topics for success in the SAP ecosystem.

Walldorf, April 2017

# TEILNAHMEBESTÄTIGUNG

**Joerg Roedle**

roedle@gmx.net

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hat teilgenommen am sechswöchigen MOOC:

## MASTERING DIGITAL TRANSFORMATION

der msg systems ag.

Der MOOC bestand aus den folgenden Inhalten:

- Einführung und aktuelle Forschung
- Geschäftsmodelle
- Methoden und Technologien der Digitalen Transformation
- Auswirkungen der Digitalen Transformation auf die Produktionsplanung, Inbetriebnahme und Wartung
- Die Digitale Transformation in unterschiedlichen Branchen und Industrien
- Auswirkungen der Digitalen Transformation auf die zukünftige Arbeitswelt

Durch den Zugriff auf mindestens 50% der Lernmaterialien hat der Teilnehmer die Voraussetzung für den Erhalt dieser Bescheinigung erfüllt.

Potsdam, 3. April 2017

moochouse ist eine innovative Online-Lernplattform, die vom Hasso-Plattner-Institut für Softwaresystemtechnik GmbH (HPI) in Potsdam entwickelt und betrieben wird. Das Hasso-Plattner-Institut ist ein An-Institut der Universität Potsdam. Im Mittelpunkt der universitären Lehre steht der praxisnahe und ingenieurwissenschaftlich orientierte Studiengang IT-Systems Engineering.

msg ist eine unabhängige Unternehmensgruppe mit eigenständigen Tochtergesellschaften und über 6.000 Mitarbeitern in 25 Ländern weltweit. Unsere Kernkompetenz: intelligente IT- und Branchenlösungen für Automotive, Banking, Insurance, Food, Life Science & Healthcare, Public Sector, Telecommunications, Travel & Logistics sowie Utilities.

[www.msg.group](http://www.msg.group)

**OPEN**  Hasso  
Plattner  
Institut



# TEILNAHMEBESTÄTIGUNG

**Joerg Roedle**

roedle@gmx.net

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hat teilgenommen am sechswöchigen MOOC:

## MASTERING DIGITAL TRANSFORMATION

der msg systems ag.

Der MOOC bestand aus den folgenden Inhalten:

- Einführung und aktuelle Forschung
- Geschäftsmodelle
- Methoden und Technologien der Digitalen Transformation
- Auswirkungen der Digitalen Transformation auf die Produktionsplanung, Inbetriebnahme und Wartung
- Die Digitale Transformation in unterschiedlichen Branchen und Industrien
- Auswirkungen der Digitalen Transformation auf die zukünftige Arbeitswelt

Durch den Zugriff auf mindestens 50% der Lernmaterialien hat der Teilnehmer die Voraussetzung für den Erhalt dieser Bescheinigung erfüllt.

Potsdam, am 27. März 2017

moochouse ist eine innovative Online-Lernplattform, die vom Hasso-Plattner-Institut für Softwaresystemtechnik GmbH (HPI) in Potsdam entwickelt und betrieben wird. Das Hasso-Plattner-Institut ist ein An-Institut der Universität Potsdam. Im Mittelpunkt der universitären Lehre steht der praxisnahe und ingenieurwissenschaftlich orientierte Studiengang IT-Systems Engineering.

msg ist eine unabhängige Unternehmensgruppe mit eigenständigen Tochtergesellschaften und über 6.000 Mitarbeitern in 25 Ländern weltweit. Unsere Kernkompetenz: intelligente IT- und Branchenlösungen für Automotive, Banking, Insurance, Food, Life Science & Healthcare, Public Sector, Telecommunications, Travel & Logistics sowie Utilities.

[www.msg.group](http://www.msg.group)

**OPEN**  **Hasso Plattner Institut**





## Joerg Roedle

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E-mail: roedle@gmx.net

has participated in the following openSAP course:

### Find Your Path to SAP S/4HANA

Instructors: Featuring experts from Product Management  
and Co-Innovation for SAP S/4HANA

This four-week online course was held from January 25 through  
March 02, 2017. It comprised 3-4 hours of learning effort per week.

The course covered the following topics:

- SAP S/4HANA 1610 Release Highlights
- A Fresh Start with SAP S/4HANA
- Converting Your SAP ERP System
- Landscape Transformation

openSAP is SAP's platform for open online courses. It supports you in acquiring knowledge on key topics for success in the SAP ecosystem.

Walldorf, March 2017

## Joerg Roedle

E-mail: roedle@gmx.net

has participated in the following openSAP course:

### Extending SAP S/4HANA with SAP HANA Cloud Platform

Instructor: Thomas Bieser

This six-week online course was held from January 11 through March 2, 2017. It comprised 4-6 hours of learning effort per week.

The course covered the following topics:

- Getting Started
- UX Extension
- Collaborative Extension
- Analytical Extension
- IoT Extension
- Extending Legacy Business Processes

openSAP is SAP's platform for open online courses. It supports you in acquiring knowledge on key topics for success in the SAP ecosystem.

Walldorf, March 2017

# Confirmation of Participation



## Joerg Roedle

E-mail: roedle@gmx.net

has participated in the following openSAP course:

### Basics of Design Research

Instructors: Andrea Anderson, Lukas Schubsda

This five-week online course was held from January 25 through March 2, 2017. It comprised 1 hour of learning effort per week.

The course covered the following topics:

- Introduction to the course
- Planning and preparing how to get empathy
- Conducting a field visit
- Analyzing your data
- Synthesizing your findings



Walldorf, March 2017

## Joerg Roedle

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E-mail: roedle@gmx.net

has participated in the following openSAP course:

### **SAP BW/4HANA in a Nutshell**

Instructors: Ulrich Christ and Gordon Witzel

This one-week online course was held from November 8, 2016 through January 18, 2017. It comprised 2-3 hours of learning effort.

This course provides a high-level overview of SAP BW/4HANA including the value proposition, some of the major functional aspects, migration path to SAP BW/4HANA and a look at the future development roadmap for SAP BW/4HANA.