

Christian M. Stracke

**Competence Modelling for Vocational
Education and Training
Innovations for Learning and Development**

Christian M. Stracke

Competence Modelling for Vocational Education and Training Innovations for Learning and Development



WACOM is the innovative research project of Lifelong Learning Programm funded by the European Agency for Education and Culture (EACEA) and managed by the National Agency in Germany (BIBB-NA).

UNIVERSITÄT
DUISBURG
ESSEN

Christian M. Stracke (Ed.)

Competence Modelling for Vocational Education and Training Innovations for Learning and Development

Bibliographic information published by the Deutsche Nationalbibliothek:

The German National Library (Deutsche Nationalbibliothek) lists this publication in the German National Bibliography (Deutsche Nationalbibliografie); detailed bibliographic data are available in the Internet at <http://dnb.d-nb.de>.

ISBN: 978-3-8440-0341-3

Print: Shaker

The digital copy of this version is online available: <http://www.learning-innovations.eu>.

Contact:

Christian M. Stracke

University of Duisburg-Essen, Campus Essen

Information Systems for Production and Operations Management

Universitaetsstr. 9 (FB WIWI: ICB)

D-45141 Essen

christian.stracke@icb.uni-due.de

Information about INES online: <http://www.learning-innovations.eu>.

Information about WACOM project online: <http://www.wacom-project.eu>.

Information about the University of Duisburg-Essen online: <http://www.wip.uni-due.de>.

© Christian M. Stracke 2011



The WACOM project has been funded with support from the European Commission. This communication reflects the views only of the author, and the Commission cannot be held responsible for any use which may be made of the information contained therein.

Content

Competence Modelling for Europe and beyond	7
<i>Christian M. Stracke and Xenia Kuhn</i>	
Competence Modelling, Competence Models and Competence Development - An Overview	11
<i>Christian M. Stracke</i>	
NaturNet Plus Solution for Sustainable Tourism, Education and Environment Protection	34
<i>Karel Charvat, Tomas Mildorf</i>	
Competence Models – a “must have” in the knowledge based society.....	42
<i>Lia Baltador</i>	
Creating a Learning Community for Carbon Capture and Storage: Complex Adaptive Systems Theory and Canada’s Oil Sands	49
<i>Nancy Higginson, Harrie Vredenburg</i>	
Close cooperation between governmental and scientific institutions as a precondition for delivering proper results in IWRM	65
<i>Stephan von Keitz</i>	
Competence Modeling on Solid Waste Management: COMBAT	71
<i>Stanislav Avsec, Branko Kaučič</i>	
Design and Development of the ICT Tools for the Online Dissemination of the WACOM Competence Model (WCM).....	82
<i>Charalampos Thanopoulos, Nikos Manouselis, Kostas Kastrantas, Yiannis Psochios</i>	
Modeling Competences in Higher Education in Germany. Insights from the Geographic Information Science and Technology Domain	98
<i>Uwe Schulze, Detlef Kanwischer & Christoph Reudenbach</i>	
Innovation for Water Management in Romania	108
<i>Maria Cheveresan</i>	
Author Index	113