VOLUME 4

Part VI Education for Work: Research, Curriculum Development and Delivery

Contents xv

Section 9	Research and Innovation Felix Rauner	
IX.1	Overview: TVET Research	1443
IX.2	Methods of TVET Research Felix Rauner	1461
IX.3	TVET Research as an Aid to Improved Policy and Performance in TVET	1469
IX.4	Repositioning the Role of Research in the Innovation of TVET	1483
IX.5	TVET Research as a Dimension of Innovation	1495
IX.6	Modellversuchsforschung: Pilot Project Research in Germany Peter Dehnbostel	1505
IX.7	TVET and R&D Evaluation: The Potential for Optimizing TVET Ludger Deitmer and Lars Heinemann	1521
IX.8	TVET Research Organizations and Scientific Communities: Challenges to the Institutionalization of TVET Research Wolfgang Wittig, Uwe Lauterbach and Philip Grollmann	1535
IX.9	Qualifications Research	1553
IX.10	Measuring Educational Quality in TVET	1563
Section 1	0 Curriculum Development and Delivery Felix Rauner	
X.1	Overview: TVET Curriculum Development and Delivery Felix Rauner	1579

xvi Contents

1593
1611
1627
1639
1653
1669
1687
1699
1711
1725
1739
1747
1763

Contents xvii

X.15	Literacy, Design and Technology: New Contexts for Learning and Skills Development in South Africa	1777
X.16	The Education Gospel and Vocationalism in an International Perspective: The Promises and the Limits of Formal Schooling W. Norton Grubb and Marvin Lazerson	1791
X.17	The Vocationalization of Secondary Education: The Relationships between Vocational and Technology Education . Margarita Pavlova	1805
X.18	Valuing Experience as well as Knowledge in Schools Ron Hansen	1823
Section 1	Information and Communication Technologies (ICTs) in Vocational Education and Training Maja Zarini, Tapio Varis and Naing Yee Mar	
XI.1	Overview: The Growing Role of ICTs in Education and Training	1835
XI.2	The Pedagogical Framework for On-Line Learning Shyamal Majumdar	1847
XI.3	A Short Method for Building Web-Based Teaching and Learning Systems: the CPSC Experience	1863
XI.4	ICT Application in TVET	1879
XI.5	Technology and Leadership in the Fourth Wave of Environmental Changes with Ubiquitous Technology	1895
XI.6	Knowledge Workforce Development for Computer- Supported Collaborative Work Environments	1911
XI.7	The Role of ICTs and TVET in Rural Development and Poverty Alleviation	1923

xviii Contents

X1.8	to Skills Development through ICTs	1935
XI.9	VOCED: The International Research Database on Vocational Education and Training	1947
XI.10	What are the Limits of ICTs and Media in the Delivery of TVET? An Australian Focus	1959
XI.11	Education System Profile: South Africa	1971
XI.12	Integrating TVET with Open and Distance Learning: Taking Skills Training to the Doorstep	1989
XI.13	Distance Education: The State of the Art in Career and Technical Education	2003