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Publications in English language

DWA Set of Rules/Software

is viewed in Germany as the general basis for planning, construction and operation of plants in water, wastewater and waste management, as well as in soil conservation. So the standards of DIN and DWA are of equal importance for the water sector.

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Drain and Sewer Systems

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Standard DWA-A 100E	Guidelines of Integrated Urban Drainage (IUD) December 2006, 40 pages, A4, ISBN 978-3-941089-71-6	41,00 32,80
Standard ATV-A 106E	Design and Construction Planning of Wastewater Treatment Facilities October 1995, 27 pages, A4, ISBN 978-3-934984-02-8 Also available in Czech  Hungarian  Polish  see from page 18	26,00 20,80
Software	Hydraulics Expert Hydraulic Calculation of Sewers and Special Structures	
	Software for hydraulic calculation of sewers and special structures. Safe utilization of Standards DWA-A 110, DWA-A 111 and DWA-A 112	
	<ul style="list-style-type: none"> Version Standard (based on DWA-A 110) The link between models of sewer systems and the in practice often used pipe tables for complete and partial filling. 195,00 156,00 Version Professional (based on DWA-A 110, DWA-A 111, DWA-A 112) In addition hydraulic calculations of special structures, raids and spillways; detailed hydraulic calculation and verification of inverted siphons, gutters, crash steeps and vortex drop shafts. 750,00 600,00 	
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Guideline DWA-M 114E	Energy from Wastewater – Thermal and Potential Energy June 2009, 48 pages, A4, ISBN 978-3-941089-65-5	42,00 33,60
Standard DWA-A 116-1E	Special Sewerage Systems – Part 1: Vacuum Sewerage Systems Outside Buildings March 2005, 29 pages, A4, ISBN 978-3-939057-46-8	38,00 30,40
DIN EN 1091/ DWA-A 116-1E	Vacuum Sewerage Systems Outside Buildings/Special Sewerage Systems – Part 1: Vacuum Sewerage Systems Outside Buildings April 2005, 55 pages, A4, ISBN 978-3-940173-66-9	75,00 60,00
Standard DWA-A 116-2E	Special Sewerage Systems – Part 2: Pressure Sewerage Systems Outside Buildings May 2007, 27 pages, A4, ISBN 978-3-940173-54-6	38,00 30,40
DIN EN 1671/ DWA-A 116-2E	Pressure Sewerage Systems Outside Buildings/Special Sewerage Systems – Part 2: Pressure Sewerage Systems Outside Buildings September 2007, 42 pages, A4, ISBN 978-3-940173-67-6	60,00 48,00

Publications in English language

Standard DWA-A 118E	Hydraulic Dimensioning and Verification of Drain and Sewer Systems March 2006, 35 pages, A4, ISBN 978-3-940173-51-5 Also available in Serbian  , see from page 21	52,00 41,60
Standard DWA-A 125E	Pipe Jacking and Related Techniques December 2008, 69 pages, A4, ISBN 978-3-941897-09-0	62,00 49,60
DIN EN 12889/ DWA-A 125E	Trenchless Construction and Testing of Drains and Sewers/Pipe Jacking and Related Techniques May 2009, 92 pages, A4, ISBN 978-3-942964-37-1	98,00 78,40

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Standard ATV-A 128E	Standards for the Dimensioning and Design of Stormwater Structures in Combined Sewers April 1992, 74 pages, A4, ISBN 978-3-934984-17-2 Also available in Czech  French  , see from page 18	47,00 37,60
Standard ATV-DVWK-A 134E	Planning and Construction of Wastewater Pumping Stations June 2000, 49 pages, A4, ISBN 978-3-937758-45-9	45,50 36,40
Standard DWA-A 138E	Planning, Construction and Operation of Facilities for the Percolation of Precipitation Water April 2005, 60 pages, A4, ISBN 978-3-937758-74-9	43,00 34,40
Standard DWA-A 139E	Construction and Testing of Drains and Sewers December 2009, 74 pages, A4, ISBN 978-3-941897-26-7	64,00 51,20
DIN EN 1610/ DWA-A 139E	Construction and Testing of Drains and Sewers January 2010, 104 pages, A4, ISBN 978-3-941897-67-0	107,00 85,60


Guideline ATV-M 143-6E	Rehabilitation of Drainage Systems outside Buildings – Part 6: Leak Testing of Existing, Earth Covered Sewers and Drains and Shafts Using Water, Air Overpressure and Vacuum June 1998, 16 pages, A4, ISBN 978-3-934984-43-1 Also available in Arabic  , see from page 18	26,50 21,20
Guideline DWA-M 143-14E	Part 14: Rehabilitation Strategies November 2005, 30 pages, A4, ISBN 978-3-939057-26-0	33,00 26,40
Guideline DWA-M 143-17E	Part 17: Coating Wastewater Conduits, Pipes and Shafts with Cement-bonded Mortars December 2006, 32 pages, A4, ISBN 978-3-941089-24-2	32,00 25,60

Guideline DWA-M 144-3E	Supplementary Technical Contract Conditions (ZTV) for the Rehabilitation of Drainage Systems Outside of Buildings – Part 3: Renovation with Hose Liner Process (locally cured hose liner) for Sewers November 2012, 43 pages, A4, ISBN 978-3-944328-10-2 Also available in Chinese  Czech  French  Italian  Polish  Russian  Spanish  , see from page 18	78,00 62,40
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Guideline DWA-M 149-3E	Conditions and Assessment of Drain and Sewer Systems Outside Buildings – Part 3: Condition Classification and Assessment November 2007, 71 pages, A4, ISBN 978-3-942964-11-1	56,00 44,80
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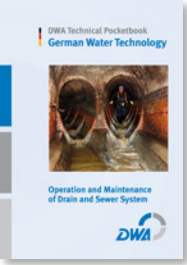

Guideline DWA-M 153E	Recommended Actions for Dealing with Stormwater August 2007, 35 pages, A4, ISBN 978-3-941089-97-6 Also available in French  , see from page 19	41,00 32,80
Standard ATV-DVWK-A 157E	Sewer System Structures November 2000, 32 pages, A4, ISBN 978-3-937758-46-6	34,50 27,60

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Guideline DWA-M 180E	Framework for Planning of Real Time Control of Sewer Networks December 2005, 51 pages, A4, ISBN 978-3-939057-28-4	45,00 36,00
Standard ATV-DVWK-A 198E	Standardisation and Derivation of Dimensioning Values for Wastewater Facilities April 2003, 50 pages, A4, ISBN 978-3-924063-63-4	40,50 32,40

Publications in English language

Standard DWA-A 199-1E	Service and Operating Instructions for the Personnel of Wastewater Systems – Part 1: Service Instructions for the Personnel of Wastewater Systems November 2011, 31 pages, A4, 978-3-944328-47-8	35,00 28,00
Standard DWA-A 199-2E	Part 2: Operating Instructions for the Personnel of Sewerage Systems and Storm-water Treatment Systems July 2007, 40 pages, A4, ISBN 978-3940173-31-7	39,00 31,20
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Standard DWA-A 199-4E	Part 4: Operating Instructions for the Personnel of Wastewater Treatment Plants August 2006, 79 pages, A4, ISBN 978-3-940173-19-5	57,00 45,50
Standard ATV-A 200E	Principles for the Disposal of Wastewater in Rurally Structured Areas May 1997, 31 pages, A4, ISBN 978-3-934984-32-5 Also available in Polish  , see from page 19	34,50 27,60
Technical Pocketbook	DWA Technical Pocketbook German Water Technology – Operation and Maintenance of Drain and Sewer Systems March 2014, 359 pages, A5, ISBN 978-3-944328-41-6 This Pocketbook contains a selection of DWA-Standards and Guidelines for the operation and maintenance of drain and sewer systems in a concise format. It is written for engineers, technical decision makers, consultants and all companies operating in the field of drainage systems as a guideline for implementation.	59,00 47,20
		
CD-ROM		
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	Edition April 2016 – English translations of significant publications of the DWA Set of Rules, 52 DWA-Standards and Guidelines, 6 DWA-Topics and various brochures in pdf format (single user) DWA-Publications are viewed as the basis for planning, construction, improvement and operation of plants in water, wastewater and waste management, as well as in soil conservation. The DWA Set of Rules consists of Standards and Guidelines. Standards describe the generally accepted rules of technology. Guidelines describe the state of the art. This CD-ROM additionally contains DWA-Topics which present elementary results from the honorary work of the DWA specialist groups. Furthermore, you will find selected brochures for your information and public relations work.	298,00 238,40
Update 2016	Only for customers of the April 2014 Version	129,00 103,20
DIN EN 752 (prEN)	Drain and sewer systems outside buildings – Sewer system management German and English version October 2015, 177 pages, A4	187,00
Manual	The Construction Site Manual for the Construction of Drains and Sewers 2nd, revised edition 2003, 77 pages, stiff paper cover, A5, CD-ROM attached	36,00 28,80
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Municipal Wastewater Treatment

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Guideline DWA-M 114E	Energy from Wastewater – Thermal and Potential Energy June 2009, 48 pages, A4, ISBN 978-3-941089-65-5	42,00 33,60
Software	Activated Sludge Expert Software for Standard ATV-DVWK-A 131E Dimensioning of Single-Stage Activated Sludge Plants	
	The activated sludge process is a unit process comprising the biological reactor with the aeration equipment and the secondary settling tank, both connected by the return sludge recirculation. The software takes you step by step through the successful dimensioning of such activated sludge plants. For more information and demoversions visit our homepage http://en.dwa.de/software-en.html The german DWA-A 131 is in rework.	275,00 220,40
Standard ATV-DVWK-A 198E	Standardisation and Derivation of Dimensioning Values for Wastewater Facilities April 2003, 50 pages, A4, ISBN 978-3-924063-63-4	40,50 32,40
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DWA Topics	Treatment Steps for Water Reuse - former Title: Assessment of Process Steps for the Treatment of Wastewater for Reuse May 2008, 30 pages, A4, ISBN 978-3-941089-79-2 Only available for download. Also available in Spanish  , see page 21	15,00 12,00



New

Fit in Wastewater Technology?



2014, 111 pages, A4, ISBN Print: 978-3-88721-247-6,
ISBN E-Book: 978-3-88721-330-5
Also available as Flashcard app, see www.brainyoo.com

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29,50
23,60

Manual	<p>Manual for Archimedean Screw Pump</p> <p>Adviser and decision guidance for planners, owners and decision-makers, by Dipl.-Ing. P.J. Kantert 2008, 140 pages, 34 mostly coloured figures, 12 tables, Hardcover, 24,5 x 17,5 cm, ISBN 978-3-88721-896-6, F. Hirthammer in der DWA</p>	<p>42,00 25,00</p>
Technical Book	<p>Membrane Technology for Wastewater Treatment</p> <p>Johannes Pinnekamp, Harald Friedrich (Editor)</p> <p>2006, 345 pages, 259 mostly colored figures, 92 mostly colored tables, Hardcover, 28,5 x 23,5 cm, ISBN 978-3-939377-01-6, FiW Publishing House, Aachen</p>	<p>20,00 20,00</p>
Training System with Magnetic Cards	<p>Modular Training Systems – Wastewater/Environment/Biogas/Building Site Safety</p> <p>A picture is worth a thousand words!</p> <p>Colourful magnetic cards depicting the most important stages and process steps on wastewater treatment plants, in the water, waste and energy sector and in biogas plants. Illustrate complex situations in an easy and comprehensible way in:</p> <ul style="list-style-type: none"> ■ teaching or education, ■ training of new, non-specialist or external staff, ■ public relations, presentations or events. 	<p>see page 15</p>
Practical Guideline	<p>Operational Problems in Wastewater Treatment Plants – Handbook for the operation of wastewater treatment plants</p> <p>Baumann, Dr.-Ing. Peter; Krauth, Karlheinz Prof. Dr.-Ing.; Maier, Werner Dr.-Ing.; Roth, Manfred Dr.</p> <p>October 2012, 138 pages, A4, ISBN 978-3-942964-15-9</p>	<p>52,00 52,00</p>

CD-ROM	DWA Set of Rules – English Version on CD-ROM	Edition April 2016 – English translations of significant publications of the DWA Set of Rules	see page 8
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DIN EN 12566-1 (FprEN)	Small wastewater treatment systems for up to 50 PT - Part 1: Prefabricated septic tanks	German and English version February 2016, 50 pages, A4	139,30
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DIN EN 12566-3 (FprEN)	Part 3: Packaged and/or site assembled domestic wastewater treatment plants	German and English version February 2016, 64 pages, A4	151,20
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DIN EN 12566-4 (FprEN)	Part 4: Septic tanks assembled in situ from prefabricated kits	German and English version February 2016, 28 pages, A4	102,30
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New

DIN EN 12566-6 (FprEN)	Part 6: Prefabricated treatment units for septic tank effluent	German and English version February 2016, 49 pages, A4	139,30
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DIN EN 12566-7 (FprEN)	Part 7: Prefabricated tertiary treatment units	German and English version February 2016, 46 pages, A4	133,50
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Recycling Management, Energy and Sewage Sludge

Unit price (€)
Price for DWA-Corporate Members (€)

Guideline ATV-DVWK-M 362-2E	Handling of Dredged Material – Part 2: Case Studies October 2004, 83 pages, A4, ISBN 978-3-940173-45-4	48,00 38,40
Guideline DWA-M 366E	Mechanical Dewatering of Sewage Sludge	New
	February 2013, 51 pages, A4, ISBN 978-3-944328-28-7 Dewatering of sewage sludge is one of the most important fundamental process steps in the entire sludge treatment chain. This Guideline summarises commonly used systems as well as their dewatering efficiency and cost effectiveness and presents information on operational requirements and conditions. It also supplies information on the optimisation of dewatering results and on the minimisation of electrical power consumption. Especially, planners and operators of wastewater treatment plants are addressed by this Guideline.	62,00 49,60
Guideline ATV-DVWK-M 374E	Production specific Wastewater and Waste from the Glass and Mineral Fibre Industry August 2004, 37 pages, A4, ISBN 978-3-937758-76-3	27,00 21,60
Guideline DWA-M 376E	Safety Regulations for Biogas Holders with Membrane Seals October 2006, 23 pages, A4, ISBN 978-3-940173-92-8	29,00 23,20
Guideline ATV-DVWK-M 379E	Drying of Sewage Sludge February 2004, 35 pages, A4, ISBN 978-3-937758-72-5	26,00 20,80
Guideline DWA-M 381E	Sewage Sludge Thickening October 2007, 36 pages, A4, ISBN 978-3-941897-43-4	39,00 31,20
Guideline DWA-M 386E	Thermal Treatment of Sewage Sludge – Mono-Incineration December 2011, 57 pages, A4, ISBN 978-3-942964-95-1	63,00 50,40
Guideline DWA-M 387E	Thermal Treatment of Sewage Sludge – Co-Incineration in Power Plants May 2012, 49 pages, A4, ISBN 978-3-942964-96-8	52,00 41,60
Guideline DWA-M 804E	Assurance of the Quality and Economic Efficiency of Wastewater and Waste Facilities also with the Performance of Tasks by Third Parties October 2007, 54 pages, A4, ISBN 978-3-941897-21-2	39,00 31,20
Training System with Magnetic cards	Environment Training Cards Water-Waste-Energy Magnetic cards, size A6 (105 x 148 mm), see page 15	
Training System with Magnetic Cards	Biogas Training Cards 84 round magnets with 14 different illustrations and 35 magnetic cards A6 packed in a plastic case. All cards are labelled in German/English, see page 15	

CD-ROM DWA Set of Rules – English Version on CD-ROM

Edition April 2016 – English translations of significant publications of the DWA Set of Rules

see page
8

Hydraulic Engineering and Hydro Power/ Surface Water and Soil

Unit price (€)
Price for DWA-Corporate Members (€)

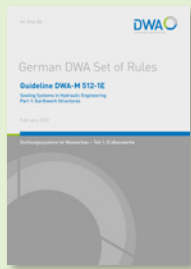
Guideline **Handling of Dredged Material – Part 2: Case Studies** 48,00
ATV-DVWK-M 362-2E October 2004, 83 pages, A4, ISBN 978-3-940173-45-4 38,40

Guideline **Basic Information on Investigation and Remediation of Tailings Impoundments** 29,50
ATV-DVWK-M 503E December 2001, 57 pages, A4, ISBN 978-3-939057-48-2 23,60

Guideline **Levees Built Along Watercourses – Part 1: Planning, Construction and Operation** 76,00
DWA-M 507-1E December 2011, 109 pages, A4, ISBN 978-3-942964-53-1 60,80

This publication was jointly elaborated by Deutsches TalsperrenKomitee (DTK), the German Geotechnical Society (DGGT) and the German Association for Water, Wastewater and Waste (DWA).

Guideline **Sealing Systems in Hydraulic Engineering – Part 1: Earthwork Structures** **New**
DWA-M 512-1E

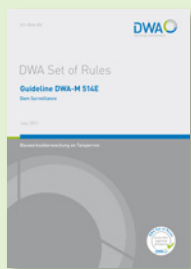


February 2012, 112 pages, A4, ISBN 978-3-944328-46-1 85,00
68,00

This publication was jointly elaborated by German Port Technology Association (HTG), the German Geotechnical Society (DGGT) and the German Association for Water, Wastewater and Waste (DWA).

This Guideline deals exclusively with sealing systems designed for application in hydraulic engineering. Described are surface and internal sealing systems used in earthwork structures, including asphalt and concrete sealing systems, geosynthetic clay liners, mineral sealings, geomembranes, fully grouted riprap, sheet pile walls and internal sealing systems made of hydraulically bound sealing-wall materials. For each of these sealing systems, a summary is given of possible applications, construction materials, methods of placement, design principles, quality assurance and maintenance requirements.

Guideline **Dam Surveillance** **New**
DWA-M 514E



July 2011, 77 pages, A4, ISBN 978-3-942964-54-8 66,00
52,80

This publication was jointly elaborated by Deutsches TalsperrenKomitee (DTK), the German Geotechnical Society (DGGT) and the German Association for Water, Wastewater and Waste (DWA).

Consistent monitoring plays an essential role in dam safety management. Individually adjusted measuring and monitoring systems are employed for the purpose. Being applied in combination with periodical visual inspections, these measuring efforts provide plant operators with a comprehensive and differentiated picture of the structural and operational safety status of their dams. This Guideline provides supplementary information and also serves as a basis for the planning, approval, design, implementation and validation of dam surveillance concepts established for both new and old dams.

DWA Topics **Fish Protection Technologies and Downstream Fishways – Dimensioning, Design, Effectiveness, Inspection** 40,00
July 2005, 226 pages, 201 figures, 42 tables, A4, ISBN 978-3-937758-88-6 (also available on CD-ROM) 32,00

CD-ROM **DWA Set of Rules – English Version on CD-ROM**

Edition April 2016 – English translations of significant publications of the DWA Set of Rules see page 8

Industrial Wastewater/Water Reuse/ System Related Water Pollution Control

Unit price (€)
Price for DWA-Corporate Members (€)

Guideline ATV-DVWK-M 374E	Production specific Wastewater and Waste from the Glass and Mineral Fibre Industry August 2004, 37 pages, A4, ISBN 978-3-937758-76-3	27,00 21,60
Standard DWA-A 704E	Operating Methods for Wastewater Analysis April 2007, 69 pages, A4, ISBN 978-3-940173-20-1	62,00 49,60
DWA Topics	Treatment of Industrial Wastewater and Process Water with Membrane Processes and Membrane Bioreactor Technology November 2007, 48 pages, 16 figures, 3 tables, A4, ISBN 978-3-940173-55-3	30,00 24,00
Technical Book	Basic Process Engineering in Industrial Wastewater Treatment Legal basis, process engineering, production-integrated environmental protection Weiterbildendes Studium „Wasser und Umwelt“, Bauhaus-Universität Weimar August 2013, First Edition, 168 pages, 123 figures, 37 tables, softcover, A4, ISBN 978-3-86068-498-6, VDG Bauhaus-Universitätsverlag	45,00 45,00
Technical Book	Applied Process Engineering in Industrial Wastewater Treatment Wastewater treatment in several industries Weiterbildendes Studium “Wasser und Umwelt”, Bauhaus-Universität Weimar November 2013, First Edition, 125 pages, 45 figures, 30 tables, softcover, A4, ISBN 978-3-86068-499-3, Universitätsverlag Weimar	45,00 45,00

CD-ROM

DWA Set of Rules – English Version on CD-ROM

Edition April 2016 – English translations of significant publications of the DWA Set of Rules

see page
8

Human Resources

Unit price (€)
Price for DWA-Corporate Members (€)

Fit in Wastewater Technology?



2014, 111 pages, A4, ISBN Print: 978-3-88721-247-6,
ISBN E-Book: 978-3-88721-330-5
Also available as Flashcard app, see www.brainyoo.com



New

29,50
23,60

This new concept was specifically developed for the practical and comprehensible transfer of knowledge for the occupation of „wastewater engineering technician“. The book contains conventional multiple-choice questions plus questions related to situations for the better understanding of processes, expedition questions to apply the theory to the practical work on a wastewater treatment plant and questions for reflection which should be discussed and solved with a trainer.

Environmental
Engineering
Occupations, Volume 1

Water Supply Engineering Technician

Explanatory notes to and practical assistance for the [German] Vocational Training Regulations
Bundesinstitut für Berufsbildung BIBB (Publisher)
1st reproduction 2008, 87 pages, A4, ISBN 978-3-7639-3736-3, W. Bertelsmann Verlag

13,50
13,50

Environmental
Engineering
Occupations, Volume 2

Sewage Engineering Technician

Explanatory notes to and practical assistance for the [German] Vocational Training Regulations
Bundesinstitut für Berufsbildung BIBB (Publisher)
1st reproduction 2008, 86 pages, A4, ISBN 978-3-7639-3729-5, W. Bertelsmann Verlag

13,50
13,50


Publications in English language

Environmental Engineering Occupations, Volume 3	<p>Recycling and Waste Management Technician Explanatory notes to and practical assistance for the (German) Vocational Training Regulations Bundesinstitut für Berufsbildung BIBB (Publisher) 1st reproduction 2008, 99 pages, A4, ISBN 978-3-7639-3731-8, W. Bertelsmann Verlag</p>	13,50 13,50
Technical Book	<p>Wastewater Engineering in Question and Answer for Trainees, Instructors and in Daily Operation Michael Aldick, Gerolf Lenz, Jörg Moosburger 2007, 388 pages, A5, ISBN 978-3-88721-897-3, F. Hirthammer in der DWA</p>	36,00 36,00
Guidebook	<p>The Water Impact Guidebook – Capacity Development to Enhance Commercial and Technical Management in Water and Wastewater Utilities Barnes, Nancy; Döring, Ernst; Petermann, Thomas et al. March 2013, 766 pages, ISBN 978-3-8236-1649-8, Margraf Publishers GmbH</p> <p>Quality water is essential for public health and the health of the environment. The IMPACT Guidebook is a contribution to the body of knowledge of how to establish, improve and maintain effective organizations – especially those in the water sector, written by people in the Africa and Middle East North Africa regions for people in these regions and elsewhere in the water sector. www.water-impact-guidebook.net</p>	58,85 58,85

Economics and Law

Unit price (€)
Price for DWA-Corporate Members (€)

Standard DWA-A 133E	<p>Valuation of Wastewater Systems – Systematic Recording, Assessment and Updating August 2005, 36 pages, A4, ISBN 978-3-940173-60-7</p>	39,00 31,20
Standard DWA-A 400E	<p>Principles for the Preparation of DWA Rules and Standards January 2008, 10 pages, A4, ISBN 978-3-942964-52-4</p>	11,21 8,97
Guideline DWA-M 803E	<p>Cost Structures in Wastewater Engineering November 2006, 71 pages, A4, with CD-ROM „Service-Tool“, ISBN 978-3-941089-74-7</p>	80,00 64,00
Guideline DWA-M 804E	<p>Assurance of the Quality and Economic Efficiency of Wastewater and Waste Facilities also with the Performance of Tasks by Third Parties October 2007, 54 pages, A4, ISBN 978-3-941897-21-2</p>	48,00 38,40
Guideline ATV-DVWK-M 807E	<p>Allocation of Production Costs and Maintenance Expenditure for Sewage Plants July 2002, 8 pages, A4, ISBN 978-3-941089-73-0</p>	16,50 13,20
Guideline DWA-M 1100E	<p>Benchmarking in Water Supply and Wastewater Disposal March 2008, 19 pages, A4, ISBN 978-3-941897-20-5</p>	29,50 23,60
DWA-Topics	<p>Corporate Benchmarking - Metric Benchmarking as Component of the Modernisation Strategy - Performance Indicators and Evaluation Principles April 2008, 72 pages, A4, ISBN 978-3-941089-33-4</p>	25,00 20,00
Cost Manual	<p>Dynamic Cost Comparison Calculations for selecting least-cost projects in Water Supply and Wastewater Disposal – DCCC-Appraisal Manual for Project Designers December 2011, 133 pages, A4, ISBN 978-3-941897-05-2</p>	58,00 46,40

Profile	Profile of the German Water Sector 2015	
	2015, 84 pages, A4, ISBN 978-3-89554-211-4 published together with ATT, BDEW, DBVW, DVGW, DWA, VKU	31,89 24,90
CD-ROM	DWA Set of Rules – English Version on CD-ROM	
	Edition April 2016 – English translations of significant publications of the DWA Set of Rules	see page 8

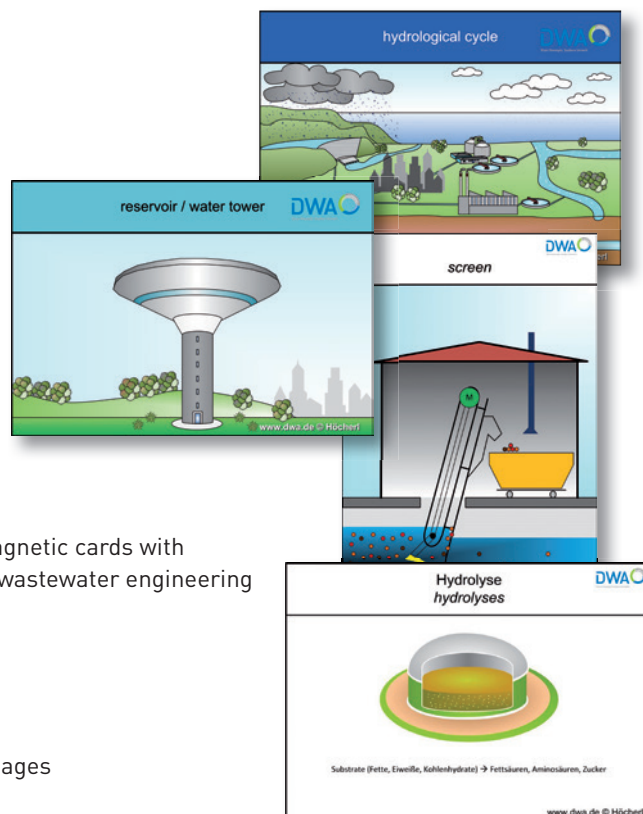
Make it Easy to Learn – Use your Hands

Wastewater-Water-Waste-Biogas-Safety

Technical processes – in the truest sense of the word – are comprehensible with our training aids!

Specially designed **magnetic cards** show the stations of wastewater treatment respectively the stations of water, waste and energy.

The eye-catchingly depicted cards motivate the trainees to reproduce or simulate techniques and operational arrangements on whiteboard or flip chart. It is hands-on learning and learning by trying out and thus a more successful alternative to the purely passing on of information.



Modular Wastewater Training System

Plastic case with 60 magnetic cards, 44 flashcards (according to the magnetic cards with additional information) 1 USB stick with approx. 130 questions (ppt) on wastewater engineering

Magnetic cards, size A5 (148 x 210 mm)	458,00 €*
Magnetic cards, size A6 (105 x 148 mm)	388,00 €*
Magnetic cards, size A7 (74 x 105 mm)	298,00 €*

Also available in Spanish, Farsi, Croatian, Arabic, Hindi and other languages

Additional flashcard set wastewater	19,00 €
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Environment Training Cards Water-Waste-Energy

Plastic case with 62 magnetic cards	
Magnetic cards, size A6 (105 x 148 mm)	128,00 €*

Biogas Training Cards

Plastic case with 84 round magnets with 14 different illustrations and 35 magnetic cards A6 (105 x 148 mm) labelled in German/English.	210,00 €*
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Road Site Safety Training Cards

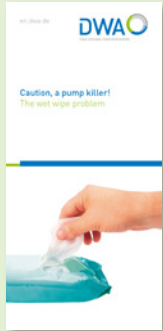
Plastic case with 106 magnets (about 50 mm) like car, signs, traffic cones, ...	128,00 €*
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All prices incl. VAT plus mailing costs. Subject to price changes and errors. *) 20 % discount for corporate DWA members

Public Relations

Unit price (€)

Caution, a pump killer! The wet wipe problem



Flyer, 2015, 4-colored, DINlang

Wet wipes clog pipes and canals. Restoring the water flow costs money and is labour intensive. It does not have to be this way. The flyer points to the problem of wet wipes and give tips for optimal handling of it.

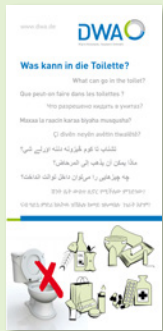
You can purchase your copies of the flyer also with an individual address and logo imprint (b/w or 4c Euro scale). Please ask us about the conditions (info@dwa.de).

The prices are not transferred to your order confirmation when ordering via the DWA-Shop. Please order larger numbers by e-mail to info@dwa.de.

New

net price:
per piece
0,25/pce
from 100 piece
0,20/pce
from 250 piece
0,15/pce
from 500 piece
0,10/pce
from 1.000 piece
on enquiry

What can go in the toilette?



Flyer, 2016, 4-colored, 12 pages, DINlang

This flyer gives a compact and comprehensible description of what belongs in the toilet or in the waste bin and which wastes must be disposed of separately. The flyer is used especially as information for persons applying for asylum and includes the following languages: German – Amharic – Arabic – English – Farsi – French – Kurdish – Pashto – Russian – Somali – Tigrinya

New

net price:
per piece
0,30/pce
from 100 piece
0,25/pce
from 250 piece
0,20/pce
from 500 piece
0,15/pce
from 1.000 piece
on enquiry

Correct waste disposal – Toilet or waste container?



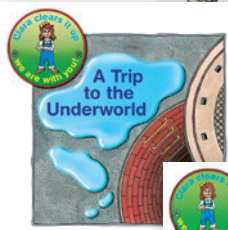
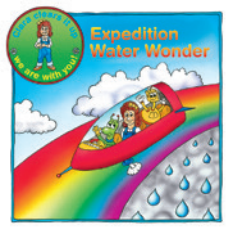


Poster, A3

This poster illustrates in easily understandable drawings what belongs in the waste container and must not be disposed of in the toilet. The poster was designed as basic information about correct waste disposal especially for persons applying for asylum.



















New

2,50

Brochure	Do we need New Alternative Sanitation Systems? 2010, 16 pages, 20 x 20 cm		1,50
Brochure	Facts and Figures – Facts and Figures on the subject of Water 2009, 17 pages, 20 x 20 cm		1,50
Brochure	Wastewater Clarified 2006, 20 pages, 20 x 20 cm		1,50
Brochure	Trulli the little water drop 26 pages, 12,5 x 12,5 cm, for children, age 4-10 Also available in French 		1,50
Brochure	Clara clears it up A Trip to the Underworld 2006, 20 pages, 20 x 20 cm, for children, age 4-10		1,50
Brochure	Clara clears it up Expedition Water Wonder 2004, 20 pages, 20 x 20 cm, for children, age 4-10		1,50
Poster	Everything Flows – A German Water Balance March 2014, Size A4, folded to A4		2,50

Dictionaries

Unit price (€)

Technical Dictionary Waste		New
German-English-Romanian/ English-Romanian-German/ Romanian-German-English	Dicționar de specialitate – Managementul Deșeurilor Dr.-Ing. Monica Isacu, Aquademica 2015, 393 pages, A5, ISBN 978-3-88721-258-2	49,00
German-English/ English-German	Technical Dictionary Water, Wastewater, Waste Updated and supplemented edition 2009, 256 pages, A5, ISBN 978-3-941089-48-8 Only available on CD-ROM	49,00
German, English, French	Technical Dictionary Wastewater-Waste Translations of about 4.000 technical terms from the field of wastewater- and waste technology. Only available on CD-ROM.	63,00
Bulgarian-German-English/ German-Bulgarian-English/ English-Bulgarian-German	Technical Dictionary Water, Wastewater, Waste 2008, 508 pages, paperback, 24,5 x 17,5 cm, DWA-Pictorial Dictionary, 2008, 64 pages, paperback, 24,5 x 17,5 cm, ISBN 978-954-9401-25-7 Only for sale together The DWA-Dictionary gives the translations of about 7.000 technical terms and definitions of wastewater, water and waste in three languages. Bulgarian specialists of universities, companies, engineering consultants and public authorities compiled these two dictionaries in cooperation with the DBU.	60,00
CD-ROM	DWA pictorial dictionary The pictorial dictionary shows the 400 most important terms of water, wastewater and waste on the basis of several coloured pictures and gives the suitable translation in 9 languages (Bulgarian  English  German  French  Portuguese  Polish  Spanish  Czech  Hungarian  .	5,00
German-English-Turkish/ English-Turkish-German/ Turkish-German-English	Technical Dictionary Water, Wastewater, Waste April 2013, 520 pages, A4, ISBN 978-3-941897-34-2	69,00
German-Romanian/ Romanian-German	Technical Dictionary Water, Wastewater, Waste December 2013, 451 pages, A5, ISBN 978-3-944328-33-1 Available in pdf-format or in print.	49,00
Online Dictionary ARABTERM	Technical Dictionary Water Technology The internet based ARABTERM multilingual terminology database includes a specialist volume on water technology. This joint publication of the Arab League Educational, Cultural and Scientific Organization (ALECSO) and the BMZ was executed by GIZ and Goethe institute Egypt with the technical assistance of the DWA. It offers translations of more than 7,000 water-related terms in German, English, French and Arabic and helps to harmonise water-related terminology and develop technical standards and guidelines for the Arab region and beyond. A detailed explanation and diagram are included for each entry, based on DIN and EN definitions.	for free www.arabterm.org
Online Dictionary DWAterm	Dictionaries Wastewater Technology As a member of DWA you have access to the DWA online dictionary. DWAterm online offers more than 11.000 translations of specialist vocabulary on wastewater-related topics in German  English  French  Romanian  Portuguese  Polish  Spanish  Czech  Hungarian 	for DWA members free

Please note the Online Membership for persons living outside of Europe for € 18,00 annual fee.
More information see page 28 or www.en.dwa.de/membership.

Publications in other languages

Unit price (€)
Price for DWA-Corporate Members (€)

Arabic

<p>Drain and Sewer Systems Guideline ATV-M 143-6AR</p>	<p>Rehabilitation of Drain and Sewer Systems Outside Buildings – Part 6: Leak Testing of Existing, Earth Covered Sewers and Drain and Shafts Using Water, Air Overpressure and Vacuum (Arabic Translation) June 1998, 24 pages, A4, ISBN 978-3-941089-16-7</p>	<p>26,50 21,20</p>
<p>Municipal Wastewater Treatment ATV-M 271AR</p>	<p>Personnel Requirements for the Operation of Municipal Sewage Treatment Plants (Arabic Translation) September 1998, 57 pages, A4, ISBN 978-3-941089-18-1</p>	<p>40,50 32,40</p>
<p>Training System with Magnetic Cards</p>	<p>Modular Wastewater Training System (Arabic Translation) A picture is worth a thousand words! Magnetic cards, size A7 (74 x 105 mm)</p>	<p>see page 15</p>

Bulgarian


<p>DWA-Dictionary</p>	<p>Water, Wastewater, Waste Bulgarian-German-English/German-Bulgarian-English/English-Bulgarian-German 2008</p>	<p>see page 17</p>
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Chinese

<p>Drain and Sewer Systems Standard DWA-A 143-3CN</p>	<p>Rehabilitation of Drainage Systems outside Buildings – Part 3: Lining with Cured-In-Place Pipes (CIPP) (Chinese Translation) May 2014, 56 pages, A4, ISBN 978-3-944328-78-2</p>	<p>65,00 52,00</p>
<p>Drain and Sewer Systems Guideline DWA-M 144-3CN</p>	<p>Supplementary Technical Contract Conditions (ZTV) for the Rehabilitation of Drainage Systems Outside of Buildings – Part 3: Renovation with Hose Liner Process (locally cured hose liner) for Sewers (Chinese Translation) November 2012, 43 pages, A4, ISBN 978-3-944328-17-1</p>	<p>78,00 62,40</p>
<p>Technical Book</p>	<p>Sewage Works Operator pocket book (Chinese Translation) 14. German edition translated into Chinese 2000,0 172 pages, A5, ISBN 978-3-88721-899-7</p>	<p>8,02 8,02</p>

Croatian

<p>Training System with Magnetic Cards</p>	<p>Modular Wastewater Training System (Croatian Translation) A picture is worth a thousand words! Magnetic cards, size A7 (74 x 105 mm)</p>	<p>see page 15</p>
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<p>Technical Book</p>	<p>Priručnik za tehničke voditelje uređaja za pročišćavanje Hannes Felber/Manfred Fischer 17. izdanje 2014, 258 strane</p>	<p> 42,00 42,00</p>
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Czech

<p>Drain and Sewer Systems Standard ATV-A 106CZ</p>	<p>Dimenzování jednostupňových čistíren s biologickou aktivací Květen 2000, 46 stran, A4</p>	<p>26,00 20,80</p>
<p>Drain and Sewer Systems Standard ATV-A 128CZ</p>	<p>Směrnice pro návrh a realizaci odlehčovacích objektůna stokové síti jednotné soustavy Duben 1992, 37 stran, A4</p>	<p>47,00 37,60</p>
<p>Drain and Sewer Systems Standard DWA-A 143-3CZ</p>	<p>Sanace odvodňovacích systémů mimo budovy část 3: Vložkování trubkami vytvrzovými na místě Květen 2014, 57 stran, A4, ISBN 978-3-944328-84-3</p>	<p>65,00 52,00</p>
<p>Drain and Sewer Systems Guideline DWA-M 144-3CZ</p>	<p>Dodatečné Technické Smluvní Podmínky (DTSP) pro Sanaci Odvodňovacích Systémů Mimo Budovy – Část 3: Rukávcové vložky (vyvložkována Trubkami Vytvrzovanými na místě) pro Kanalizační Potrubí a Kanály Listopad 2012, 43 stran, A4, ISBN 978-3-944328-22-5</p>	<p>78,00 62,40</p>

Farsi

Training System with
Magnetic Cards

Modular Wastewater Training System

A picture is worth a thousand words!

see page
15

French

Drain and Sewer
Systems
Standard ATV-A 128F

Directives pour le dimensionnement et la conception des évacuateurs d'orage dans les systèmes unitaires

Avril 1992, 102 pages, A4, ISBN 978-3-934984-63-9

47,00
37,00

Drain and Sewer
Systems
Standard
DWA-A 143-3F

Réhabilitation des systèmes de drainage à l'extérieur des bâtiments – Partie 3: Chemises durcies sur place

Mai 2014, 57 pages, A4, ISBN 978-3-944328-80-5

65,00
52,00

Drain and Sewer
Systems
Guideline
DWA-M 144-3F

Clauses Techniques Contractuelles Complémentaires pour la Réhabilitation des Systèmes de Drainage à l'Extérieur des Bâtiments – Partie 3: Rénovation avec Procédé de Chemisage (chemisage durci sur place) pour les Canalisations à Écoulement Libre

Novembre 2012, 43 pages, A4, ISBN 978-3-944328-11-9

78,00
62,40

Drain and Sewer
Systems
Guideline DWA-M 153F

Recommandations relatives au traitement des eaux pluviales

Août 2007, 37 pages, A4, ISBN 978-3-941089-93-8

41,00
32,80

Hungarian

Drain and Sewer
Systems
Guideline ATV-A 106HU

Szennyvíztisztító telepek vázlatos – és építési tervezése

Október 1995, oldalak száma 39, A4

26,00
20,80

Hindi

Training System with
Magnetic Cards

Modular Wastewater Training System

A picture is worth a thousand words!

see page
15

Italian

Drain and Sewer
Systems
Standard
DWA-A 143-3IT

Risanamento di sistemi di scarico all'esterno degli edifici - Parte 3: Liner con polimerizzazione in loco per tubazioni e canali di fognatura

Maggio 2014, 60 pagine, A4, ISBN 978-3-944328-81-2

65,00
52,00

Drain and Sewer
Systems
Guideline
DWA-M 144-3IT

Condizioni Tecniche Contrattuali Supplementari (ZTV) per il Risanamento delle Connessioni di Scarico e dei Collettori di Fognatura all'Esterno degli Edifici – Parte 3: Risanamento dei Collettori di Scarico e Fognatura Tramite Processo di Inserimento Interno (lining polimerizzato in Loco)

Novembre 2012, 43 pagine, A4, ISBN 978-3-944328-18-8

78,00
62,40

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Publications in other languages

Polish

Drain and Sewer Systems Guideline ATV-A 106PL	Projektowanie i budowa oczyszczalni ścieków w Niemczech Październik 1995, 26 str., A4, ISBN 978-3-935067-31-7	26,00 20,80
Drain and Sewer Systems Standard ATV-A 200PL	Zasady usuwania ścieków z terenów o zabudowie rozproszonej Maj 1997, 30 str., A4, ISBN 978-3-927729-26-1	34,50 27,60
Drain and Sewer Systems Standard DWA-A 143-3PL	Renowacja systemów odprowadzania wody na zewnątrz budynków – część 3: Rękawy utwardzane na miejscu Maj 2014, 60 str., A4, ISBN 978-3-944328-82-9	65,00 52,00
Drain and Sewer Systems Guideline DWA-M 144-3PL	Dodatkowe Techniczne Warunki Umowy (DTWU) dla Renowacji Systemów Odprowadzania Wody Poza Budynkami – Część 3: Renowacja Metodą Rękawa Elastycznego (rękaw elastyczny utwardzany na miejscu) w kanałach ściekowych Listopad 2012, 43 str., A4, ISBN 978-3-944328-19-5	78,00 62,40
Training System with Magnetic Cards	Modular Wastewater Training System A picture is worth a thousand words! Magnetic cards, size A5 (148 x 210 mm) or A7 (74 x 105 mm)	see page 15

Portuguese/Brazilian

Recycling, Energy, Sewage Sludge Guideline DWA-M 212PT	Equipamento Técnico de Digestores Anaeróbios em ETEs Abril de 2008, 28 páginas, A4, ISBN 978-3-88721-214-8	32,00 25,60
Recycling, Energy, Sewage Sludge Guideline DWA-M 361PT	Tratamento do Biogás Outubro de 2011, 40 páginas, A4, ISBN 978-3-88721-218-6	45,00 36,00
Recycling, Energy, Sewage Sludge Guideline DWA-M 363PT	Origem, Tratamento e Utilização do Biogás Novembro de 2001, 46 páginas, A4, ISBN 978-3-88721-217-9	49,00 39,20

Romanian

DWA-Dictionary	Dictionar de specialitate Ape – Ape uzate – Deseuri – German-Român – Român-German December 2013, 451 pages, A5, ISBN 978-3-944328-33-1	see page 17
DWA-Dictionary	Technical Dictionary Waste Dicționar de specialitate – Managementul Deșeurilor Dr.-Ing. Monica Isacu, Aquademica 2015, 393 pages, A5, ISBN 978-3-88721-258-2	see page 17

Russian

Drain and Sewer Systems Standard DWA-A 127RU	Static Calculation of Drains and Sewers (Russian Translation) August 2000, 69 pages, A4, ISBN 978-3-941089-66-2	58,50 46,80
Drain and Sewer Systems Standard DWA-A 143-3RU	Rehabilitation of Drainage Systems outside Buildings – Part 3: Lining with Cured-In-Place Pipes (CIPP) (Russian Translation) May 2014, 56 pages, A4, ISBN 978-3-944328-83-6	65,00 52,00
Drain and Sewer Systems Guideline DWA-M 144-3RU	Supplementary Technical Contract Conditions (ZTV) for the Rehabilitation of Drainage Systems Outside of Buildings – Part 3: Renovation with Hose Liner Process (locally cured hose liner) for Sewers (Russian Translation) November 2012, 43 pages, A4, ISBN 978-3-944328-15-7	78,00 62,40
Municipal Wastewater Treatment Standard DWA-A 262RU	Principles for Design, Construction and Operation of Constructed Wetlands with Reedbeds for the Biological Treatment of Municipal Wastewater (Russian Translation) March 2006, 31 pages, A4, ISBN 978-3-944328-51-5	30,00 24,00
Technical Book	Industrial Wastewater Treatment (Russian Translation) July 2012, 373 pages, A4, ISBN 978-5-901336-16-8	50,00 40,00

Technical Book	Wastewater Discharge (Russian Translation) May 2013, 528 pages, A4, ISBN 978-5-901336-18-2	57,00 57,00
Technical Book	Sewage Works Operator Pocketbook (Russian Translation) 2002, 407 pages, A5, ISBN 978-3-921288-09-2	16,62 16,62
Training System with Magnetic Cards	Modular Wastewater Training System A picture is worth a thousand words! Magnetic cards, size A6 (105 x 148 mm)	see page 15

Serbian

Drain and Sewer Systems Standard DWA-A 118SR	Hidrauličko Projrktovanje i Verifikacija Sistema za Odvođenje Otpadnih Voda Mart 2013, 37 str., A4, ISBN 978-86-82931-56-0	52,00 41,60
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Spanish

Drain and Sewer Systems Standard DWA-M 144-3S	Condiciones Contractuales Técnicas Complementarias (CTC) para el Saneamiento de Sistemas de Drenaje Fuera de Edificios – Parte 3: Renovación Mediante Procedimiento de Revestimiento Interior con Manga (Revestimiento Interior en Canales de Endurecimiento in Situ) para Canales de Desagüe Noviembre 2012, 43 paginas, A4, ISBN 978-3-944328-21-8	78,00 62,40
Municipal Wastewater Treatment DWA Topics	Tratamiento de aguas residuales para su reutilización Mayo 2008, 33 paginas, A4, ISBN 978-3-941897-91-5	15,00 12,00
Industrial Wastewater/ System-related Water Pollution Control Guideline ATV-M 755S	Determinación del Grado de Eficiencia de Plantas de Tratamiento de Aguas Residuales Agosto 1988, 14 paginas, A4, ISBN 978-3-934984-93-6	14,00 11,20

Turkish

Industrial Wastewater/ System-related Water Pollution Control Guideline DWA-M 710TR	Organik Madde İçerikli Sanayi Atık Suları Aralık 2008, 86 sayfa, A4, ISBN 978-3-941897-24-3	65,00 52,00
DWA-TBB Dictionary	Technical Dictionary Water, Wastewater, Waste German-English-Turkish/English-Turkish-German/Turkish-German-English April 2013, 520 pages, A4, ISBN 978-3-941897-34-2	69,00 55,20

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Water Trainings

E-Learning

The ever decreasing half-life of knowledge, as well as continuous increase of information for engineers and technicians, such as new regulations and technologies, require new concepts and training methods to ensure a continuous knowledge transfer. To meet these requirements, e-learning offers are an important part of job training. Apart from the advantages, such as complete location independence and flexibility of learning periods, the interactivity and attractiveness of the learning material are key factors to those who chose this kind of training. The independent information, learning and work platform UNITRACC has, for more than 10 years, been a relevant part of the sector. As a specialist in the field of pipeline construction, management and maintenance, the UNITRACC portal has served as a central point for underground utility experts from around the world. It is a DWA product, in cooperation with UNITRACC.

D-01 Wastewater collection systems and their significance in water management

To inspect, repair, renovate, replace and expand the existing drainage systems and respectively to adjust the sustainable development to the more stringent demands on the public health and safety as well as the environmental protection, is the great task of all in planning, construction, operation, maintenance, renovation and management involved persons of these systems. This requires expert knowledge. This module provides the essential basic knowledge of drain and sewer systems to understand the structure and mode of operation, to recognize their importance for water management and to classify the own actions as part of an „integrated sewer system management“.

Learning content: Water cycle, history of municipal drain and sewer systems, Fundamentals of sewer drainage systems, sewers, manholes and sewer structures, wastewater collection systems.

Learning concept: Self-study (e-learning) with tutorial support (e-mail)

Target group: Students, engineers (civil engineering)

Duration: 30 hours within 4 weeks

Successful completion: Participation: Participation Certificate
Examination: Certificate of Achievement

Price: 600,00 Euro (plus 19 % VAT)



D-02 Installation of water pipes, drains and sewers using the open cut method

The installation of water pipes, in particular, drains and sewers is worldwide in large part performed using the open cut method. This at first glance „simple“ construction method is actually highly complex when implemented in urban areas and at large depths. The numerous boundary conditions, shoring-, and installation systems require extensive technical knowledge in order to ensure a high quality of workmanship.

Learning content: Geotechnical and hydrogeological principles, utility trench construction, embedment and installation of piping, occupational health and safety around excavations.

Learning concept: Self-study (e-learning) with tutorial support (e-mail)

Target group: Students, engineers (civil engineering)

Duration: 30 hours within 4 weeks

Successful completion: Participation: Participation Certificate
Examination: Certificate of Achievement

Price: 600,00 Euro (plus 19 % VAT)



Are you interested? Then please contact us for more information:

Roland Knitschky · Email: knitschky@dwa.de · Phone: +49 2242 872-214 · Fax: +49 2242 872-135 · Web: en.dwa.de

D-05 Maintenance of drain and sewer systems – Cleaning I

Cleaning is one of the most important maintenance measures when it comes to ensuring a continuous performance of drainage systems. This module covers essential knowledge regarding the cause and effect of deposits, and provides a strategic approach to the development of a cleaning plan that enables for the optimisation of operating costs and in particular asset preservation.

Learning content: Solids in sewers, cleaning strategy and program, high pressure cleaning/cleaning vehicles, cleaning nozzles.

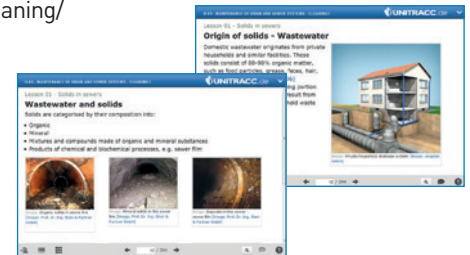
Learning concept: Self-study (e-learning) with tutorial support (e-mail)

Target group: Students, engineers (civil engineering)

Duration: 30 hours within 4 weeks

Successful completion: Participation: Participation Certificate
Examination: Certificate of Achievement

Price: 600,00 Euro (plus 19 % VAT)



D-06 Maintenance of drain and sewer systems – Cleaning II

Cleaning is one of the most important maintenance measures when it comes to ensuring a continuous performance of drainage systems. This module expands on the topics covered in module „D-05 cleaning I“, by providing further knowledge on the applications and limits of flushing methods, mechanical cleaning methods and special methods, such as physical and chemical sewer cleaning. Discussed are both the accessible and non-accessible lines, as well as pressure lines. It concludes with providing constructive solutions for the minimization of solids entry into the sewer system, with the aim of preventing the formation of deposits and hence the reduction of cleaning efforts and frequencies.

Learning content: Flushing methods, mechanical and miscellaneous methods, cleaning of large profiles, cleaning of pressure lines, constructive design measures for the reduction of deposit.

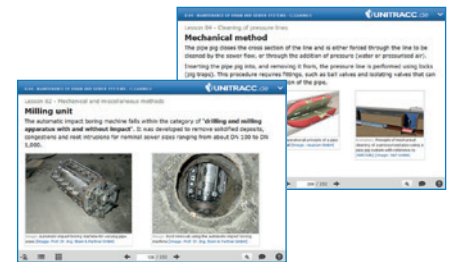
Learning concept: Self-study (e-learning) with tutorial support (e-mail)

Target group: Students, engineers (civil engineering)

Duration: 16 hours within 4 weeks

Successful completion: Participation: Participation Certificate
Examination: Certificate of Achievement

Price: 300,00 Euro (plus 19 % VAT)



D-15 Replacement of sewers and drains

Replacement refers to the installation of new sewers and drains in place of existing pipelines, where the new pipeline takes over the functions of the old sewer or drain. The replacement process is subdivided into three methods: „open cut method“, „semi open cut method“ and „trenchless method“. The focus of this module is the trenchless replacement method of pipelines by the means of pipe bursting, gallery techniques, and pipe extraction. In addition to the replacement method and process description this module discusses the areas of application and limits, the advantages and disadvantages as well as possible rehabilitation errors and options for quality assurance.

Learning content: Pipe bursting basics, pipe bursting, the welding of plastic pipes, pullback of pipelines, gallery techniques, pipe extraction, geotechnical and hydrogeological principles.

Learning concept: Self-study (e-learning) with tutorial support (e-mail)

Target group: Students, engineers (civil engineering)

Duration: 30 hours within 4 weeks

Successful completion: Participation: Participation Certificate
Examination: Certificate of Achievement

Price: 600,00 Euro (plus 19 % VAT)



D-21 Utility Tunnelling

The installation of supply and disposal lines is still mostly performed using the open cut method consisting of digging a trench, laying the pipe under the protection of shoring, and subsequently backfilling the trench. Given the many disadvantages associated with this method along with the growing environmental awareness of the population, it is imperative that trenchless technologies be taken more strongly into account in the planning and construction of pipelines and utility networks.

Learning content: Geotechnical fundamental, pipe jacking, microtunnelling, jacking pipes, jacking steering, starting and target shafts.

Learning concept: Self-study (e-learning) with tutorial support (e-mail)

Target group: Students, engineers (civil engineering)

Duration: 30 hours within 4 weeks

Successful completion: Participation: Participation Certificate
Examination: Certificate of Achievement

Price: 600,00 Euro (plus 19 % VAT)



Dates: D-01, D-02, D-05, D-06, D-15, D-21: : 03.04.2017; 03.07.2017; 09.10.2017 Other dates possible at any time!

Tailor-made services



Monitoring, controlling and optimising operations in water utilities (DWA in cooperation with Festo Didactic)

Monitoring and controlling the processes in water and wastewater treatment is crucial for ensuring good water quality and for minimising operational costs. Effective control systems need to suit individual needs to ensure safety and reliability of operations. The training will be conducted off-site and on-site. The focus lies on practical skills and know-how, to achieve efficiently running wastewater treatment plants. The training is suitable for technical staff and managers of water and wastewater treatment plants, designers, consulting engineers, suppliers of systems and components in water technology.



Economic Efficiency in Planning and Operating of Water Supply and Wastewater Disposal Systems

The comprehensive course is based on nearly 30 years of experience in applying the German standards and on the customized "DCCC-Appraisal Manual for Project Designers". It was compiled by an expert group from six different countries and is applied since 2010, in international DWA trainings. Participants are taught economic efficiency, by structuring water utilities and their components, rationalizing operation and maintenance.

The training is suitable for engineers, economists and other experts involved in planning, controllers, operational staff of water utilities, experts in financial planning and funding, decision makers.



GIS in Water Resources Management

This course offers a detailed and profound insight into GIS in water resources management.

It covers the following topics, among many others: GIS for watershed management, floods and droughts, water availability, river development, water quality, urban water supply of wastewater systems. Participants will get hands-on experience in GIS techniques, such as watershed delineation, river network, hydrologic response units, 3D-analysis, geostatistics, network analysis, linear referencing, development of data models and model integration, among many other GIS topics relevant to Water Resources Management. With this knowledge the participants are well-prepared for any GIS tasks, related to Water Resources Management.



Study Tours

International expert delegations from emerging and developing countries visit Germany to learn about the German water industry. In the past years, DWA planned and executed the excursions. Participants get to know the structure of the German water industry through the tailor-made specialist programme and experience German know-how through discipline-specific technical visits to companies and institutions.

Are you interested? Then please contact us for more information:

Roland Knitschky · Email: knitschky@dwa.de · Phone: +49 2242 872-214 · Fax: +49 2242 872-135 · Web: en.dwa.de

DWA-services for trade fairs in Germany

- | Tailor-made guided visits to trade fairs in Germany (see page 24)
- | Senior Water Professionals programmes
- | Young Water Professionals programmes (see page 26)
- | Low budget stand at the DWA joined booth
- | Technical sessions in the International Forums of IFAT and Wasser Berlin

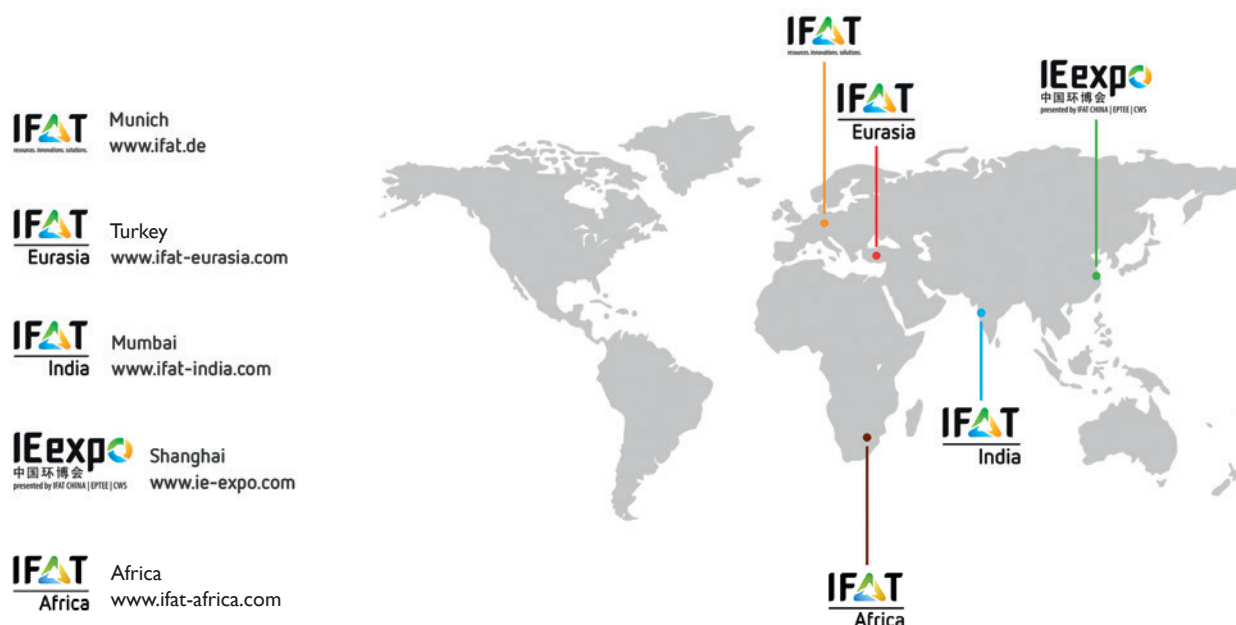
DWA-services at International Trade Fairs



Technical-Scientific Conference Programmes,
accompanying the following fairs:



World's Leading Brand for Environmental Technologies



IFAT Africa
September 12 - 14, 2017, Johannesburg/South Africa

IFAT India
September 26 - 28, 2017, Mumbai/India

IE expo
May 3 - 5, 2018, Shanghai/China

IFAT
May 14 - 18, 2018, Munich/Germany

IFAT Eurasia
Spring 2019, Istanbul/Turkey

For more information:

Roland Knitschky · Phone: +49 2242 872-214 · Fax: +49 2242 872-135 · Email: knitschky@dwa.de · Web: en.dwa.de

Young Water Professionals' Programmes



Young Water Professionals in Berlin

Since 2001, DWA organizes a one-week-programme for the international engineering talent each year at international events in Germany, such as IFAT and Wasser Berlin. Students, postgraduates and professional newcomers participate in international symposia and workshops, visit fairs, prove their skills and compete against each other in challenges on IWRW topics and become members of a global network.

The past has proven, that former attendees can profit from their participation in DWA-programmes very much, as they can serve as a career springboard for newcomers, providing a relevant network of experts. Part of the YWP is the University Challenge WUC.

Water Skills Competition – Championship in Wastewater



Since 2010, trainees battle for the title at trade fairs. Four contests have to be mastered.

Sewer professionals pass three tasks and wastewater treatment plant professionals solve problems in two fields.

For entrance requirements please contact:

Ann-Kathrin Bräunig · Phone: +49 2242 872-240 · Telefax: +49 2242 872-135 · Email: braeunig@dwa.de

World University Challenge WUC



Under the patronage of the German Academic Exchange Service (DAAD), the 1st World University Challenge took place at IFAT 2016 in Munich. 18 international students' teams performed a two days competition in IWRM tasks, in a survey and a flow measurement control exercise.

The winning teams of national University Challenges in China, South Africa, Turkey and India are invited to Germany to participate in the World University Challenge WUC at IFAT Munich 2018. The event is generously sponsored by the Wilo-Foundation.

TSM – Technical Safety Management



The Technical Safety Management is a self-control instrument for the management of water and wastewater companies, in terms of technical qualification and organization, such as operation, maintenance and OHS. Successful TSM examination ensures that all legal and technical requirements are met. Violation of organizational obligations are avoided, deficits in in terms of technique, organization and personnel will be uncovered, reviewed and removed. The training explains the TSM-System thoroughly.

The success story: Advisory Services GIZ Egypt TSM



From mid 2009 on, a quality management tool for water utilities was developed by the Egyptian Holding Company for Water and Wastewater (HCWW) and GIZ with the support of the German Water Associations DWA and DVGW (German Technical and Scientific Association for Gas and Water). The procedure of "Technical Safety Management" enables water and wastewater plants to improve their performance in organizational, safety and operational issues. Nowadays, more than 100 plants were successfully certified in accordance to national standards and requirements.

For more information:

Roland Knitschky · Phone: +49 2242 872-214 · Fax: +49 2242 872-135 · Email: knitschky@dwa.de · Web: en.dwa.de

DWA Membership support

Individual, online and corporate members

- Monthly journal *KA – Korrespondenz Abwasser* or *KW – Korrespondenz Wasserwirtschaft* (both in German) including Betriebs-Info or gewässer-info as requested; Online-Membership: Only available on the DWA website in the member's area (www.dwa.de/zeitschriften)
- DWA Yearbook
- DWA industry guide
- Literature research (www.dwa.de/bibliothek)
- Access to the membership area DWAdirekt with extensive specialist information (www.dwa.de/direkt)
- Reduced price for DWA training courses (www.dwa.de/bildung)

Exclusively for corporate members

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- Half the membership fee for company branches, if the main office is already a member
- Option to use the logo "Member of the DWA" in the company letterhead (www.dwa.de/direkt)
- Favourable conditions for an environmental criminal law protection insurance for municipalities, district administrations and special-purpose wastewater association

Your interests are important for us

In order to inform you purposefully, we request the following information:

<p>Interested in</p> <ul style="list-style-type: none"> <input type="checkbox"/> Drainage systems/sewer system <input type="checkbox"/> Wastewater treatment plants/wastewater treatment <input type="checkbox"/> Industrial wastewater <input type="checkbox"/> Substances hazardous to water (TRwS) <input type="checkbox"/> Recycling management <input type="checkbox"/> Power <input type="checkbox"/> Waterbodies <input type="checkbox"/> Hydraulic engineering <input type="checkbox"/> Economy/law <input type="checkbox"/> Protection of labour <input type="checkbox"/> Vocational education and training <input type="checkbox"/> Public relations <input type="checkbox"/> International affairs <input type="checkbox"/> Other: _____ 	<p>Qualification</p> <ul style="list-style-type: none"> <input type="checkbox"/> University degree <input type="checkbox"/> Technician <input type="checkbox"/> Skilled worker <input type="checkbox"/> Worker <input type="checkbox"/> Other <input type="checkbox"/> International experience <p>Countries: _____</p> <p>_____</p> <p>Languages: _____</p> <p>_____</p>	<p>Employed at</p> <ul style="list-style-type: none"> <input type="checkbox"/> Municipality/District <input type="checkbox"/> Association <input type="checkbox"/> Authority <input type="checkbox"/> Institution/University <input type="checkbox"/> Engineering office <input type="checkbox"/> Company <input type="checkbox"/> Other: _____
		<p>I became aware of DWA through</p> <ul style="list-style-type: none"> <input type="checkbox"/> Colleagues <input type="checkbox"/> Journal <i>KA/KW</i> <input type="checkbox"/> Educational events <input type="checkbox"/> Internet <input type="checkbox"/> Other: _____

Application

for Online Membership

Only valid for persons living in countries outside of Europe.

To be completed by DWA:

Membership. No.

Name, First name

Date of birth

Title, Occupation

Street, No.

Postcode, Town, Country

Telephone private

Telephone Office

Fax

E-Mail

Date, Signature

Online-Membership

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€ 18,- annual fee

Only available on the DWA website in the member's area (and only available in german)

**KA – Korrespondenz
Abwasser, Abfall**

or

**KW – Korrespondenz
Wasserwirtschaft**

Fax-Reply : +492242 872-200

Yes, we would like to receive documentation from the DWA for information purposes.

No, please do not send any documentation

German Association for Water, Wastewater and Waste (DWA)

Membership Support
Theodor-Heuss-Allee 17
53773 Hennef
Germany

Method of Payment bank transfer • by credit card Mastercard Visa

Number of creditcard

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Expiry date CVC-Card validation code

Date, signature of cardholder

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Company/Authority/Community _____

Street/No. _____ Postcode/Town/Country _____

Telephon _____ Fax _____ E-Mail _____

Nominated representative _____ Date/Signature _____

Annual Fee 2017 (please select membership group)

Until the year 2020, all membership rates increase by 1% per year in average and will be rounded to the nearest even amount of Euros.

<input type="checkbox"/> Communities, public utilities, operating companies Population equivalents (PE): _____ € _____ The DWA annual subscription is based on the formula $B = 1,184 \times P^{0.6}$ (B = annual subscription, P = PE) Minimum subscription = € 194,-	<input type="checkbox"/> Authorities and Universities <input type="checkbox"/> Regional authorities, central authorities, watermanagement offices, environmental agencies € 427,- <input type="checkbox"/> Universities, university institutes, training and research centres € 251,-
<input type="checkbox"/> Special purpose associations¹⁾ for wastewater/waste Population equivalents (PE): _____ € _____ The DWA annual subscription (in Euro) derives from the formula $B = 1,184 \times P^{0.6}$ (B = annual subscription, P = PE) Minimum subscription = € 194,- Operator of municipal sewer network <input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Engineering companies <input type="checkbox"/> Companies <input type="checkbox"/> Federations, non-profit organisations <input type="checkbox"/> up to 10 employees € 251,- ²⁾ <input type="checkbox"/> 11-50 employees € 326,- ²⁾ <input type="checkbox"/> 51-100 employees € 427,- ²⁾ <input type="checkbox"/> 101- 300 employees € 857,- ²⁾ <input type="checkbox"/> over 300 employees € 1.410,- ²⁾ ²⁾ Branches of engineering offices and companies receive a 50 % reduction to the annual subscription if the headoffice is also member of DWA

Kindly provide us with your free journal (please tick only one)

- KA Korrespondenz Abwasser, Abfall**
 Topics: Wastewater, waste (monthly, in German language)
- or
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 Topics: Water management (monthly, in German language)

Fax-Reply : +492242 872-200

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German Association for Water, Wastewater and Waste (DWA)
 Membership Support
 Theodor-Heuss-Allee 17
 53773 Hennef
 Germany

Method of Payment bank transfer • by credit card Mastercard Visa

Number of creditcard _____

Name of cardholder _____

Expiry date _____ CVC-Card validation code _____

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for Individual Membership

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Name/First name*)		Date of birth	
Title/Occupation*)			
Street/No.		Postcode/Town/Country	
Telephone (private)		Telephone (Office)	
Fax		E-Mail	
Date/Signature			

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Until the year 2020, all membership rates increase by 1% per year in average and will be rounded to the nearest even amount of Euros.

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<input type="checkbox"/> Young professional for the first 2 years – 50 % discount	€ 24,-
<input type="checkbox"/> Junior members* For members who are studying or who are in training (verification is required) *) The first year is free for junior members	€ 18,-
<input type="checkbox"/> Pensioners, retired persons	€ 33,-
<input type="checkbox"/> Online members Only possible for persons living in countries outside Europe	€ 18,-

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- No, please do not send any documentation

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Membership Support
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Germany

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