

Curriculum												
Module 1 "Usage of water"				Module 2 "Machine technology"				Module 3 "Washing process"				
Method	No	Chapter	amount	Method	No	Chapter	amount	Method	No	Chapter	amount	
P	1	Sustainability/ Directive 2000/60/EC	8	P	1	Sinner's Circle	15	I	1	Sinner Circle - effects on wash performance - survey on performance effects	40	
P	2	Usage of water for washing	29	I	2	Current developments on washer extractors	37	P	2	Washing process in washer extractors	28	
I	3 a	Fresh water supply	48	I	3	Tunnel washer Technology	41	I	3	Washing in tunnel washers	38	
	3 b	Water softening	16									
I	3 c	Fresh water disinfection	20									
P	4	Reasons for waste water load and possibilities of improving waste water quality	12	I	4	Dewatering methods	25	P/OF	4	<b>Water and energy saving possibilities by adaption of process design</b>		
								P/OF	4 a		low temperature washing	21
										4 b	Sanoxy system	24
I	5	<b>Waste water treatment</b>	12	P/OF	5	Drying of textiles	20					
	5a	Ways of waste water discharge										
P/OF	5b	Biological treatment Precipitation and flocculation	34	P/OF	6	Water recycling	19					
P/OF	5c	Filtration technology	40									
P/OF	6 a	Waste water regulations	34									
	6 b	Contry-specific regulations										
	7	Glossary: important parameters	11									
		total (without 6 & 7)	208			total	138			total	151	

Module 4 "Usage of detergents"				Module 5 "Energy in laundries"				Module 6 "Special aspects on sustainability"			
method	No	Chapter	amount	method	No	Chapter	amount	method	No	Chapter	amount
P/I	1	Background of ingredients	52	P	1	Energy sources in laundries	10	P	1	Water contaminants and their effects on wash performance	34
							23				
I	2	Effects of composition and dosage	13	I	2	Energy in laundries		I	2	Effects of micro-organisms in water	16
I	3	Dosing Systems	46	I	3	Survey of energy saving possibilities	22	I	3 a	Combination of different systems and it's effect on wash performance	15
								I	3 b	Treatment of river water	14
				P	4	Heating energy and heat exchangers	33	P	4	Effects of water reduction on wash performance of different textiles	1
				I	5	Effects of modern dewatering processes	10	P	5	Validation	17
				P	6	Energy recycling in dryers	20	P	6	Monitoring, controlling and documentation	25
								P	7	Management Systems	29
		total	111			total	118			total	137