

Category	Course	Content	Time	Price
Basic Machine Technology Basic Level	Tamping machines	<ul style="list-style-type: none"> a) History and progression of tamping machines b) Naming schemes c) Important components d) Work units e) Safety systems 	60 Mins	154 €
	Ballast Bed Cleaning Machines	<ul style="list-style-type: none"> a) History and progression b) Naming schemes c) Important components 	60 Min	132 €
	RM 80 Operator Guide (Advanced)	<ul style="list-style-type: none"> 1. Basic Information 2. Operating sequence 3. Touch panel 	120 Min	320 €
Machine technology Advanced	Tamping units	<ul style="list-style-type: none"> 1. Introduction 2. Mechanical tamping 3. Aspects and operation of modern tamping machines 4. Tamping tools 5. Tamping units 	60 Min	172 €
	08-32 Duomatik Operator's Guide	<ul style="list-style-type: none"> 1. Basic Information 2. Operating sequence 3. Touch panel 	60 Min	290 €
Pneumatics Basic	Pneumatic pressure circuits	<ul style="list-style-type: none"> 1. Advantages/disadvantages of using Air 2. Theory of gas laws 3. System components 4. Valves 5. ISO Symbols 6. Circuit diagram layout 	60 Min	132 €

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Hydraulic Systems in track machines Basic	Components of a Hydraulic System	<ol style="list-style-type: none"> 1. Hydraulic hoses 2. Hydraulic adapters 3. Hydraulic tanks 4. Hydraulic oils 5. Hydraulic filters 6. Hydraulic pumps 7. Hydraulic motors 8. Hydraulic coolers 9. Hydraulic accumulators 10. Hydraulic valves 11. Hydraulic cylinders 	60 Min	176 €
	Hydraulic liquids	<ol style="list-style-type: none"> 1. Functions and requirements 2. Oils used in Plasser & Theurer machines 3. Biodegradable oil - Panolin 4. Mineral oil 5. Synthetically produced oil 6. Additives - Panolin 7. Viscosity 8. Pollution, its sources and consequences 9. The oil sample 10. Preventive measures 	60 Min	102 €
	Filtration of the Hydraulic System	<ol style="list-style-type: none"> 1. Contamination <ol style="list-style-type: none"> a. <i>(Types, sizes and classifications)</i> 2. Filters / filter systems <ol style="list-style-type: none"> a. <i>(Original parts, functions, etc)</i> 	60 Min	102 €

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Plasser lining systems	4 Point lining	<ol style="list-style-type: none"> 1. Requirements in the rail industry 2. Single chord lining method and versine calculation 3. Compensation method 4. Curves 5. 4 Point lining – Satellite 6. Transition curves 7. Explainer videos on 4 Point principle and signal processing 	60 Min	86 €
	3 Point Lining	<ol style="list-style-type: none"> 1. The Basics of lining 2. Lining inside a tamping machine 3. Precision or Compensation methods with explainer video 4. Signal processing with explainer video 5. Building the versine in transition curves 	60 Min	160 €