



LET'S TRAIN PROFESSIONALS BETTER!

Advanced Wastewater Treatment

TARGET GROUP	Experienced operators of domestic and industrial wastewater treatment plants
ENTRY LEVEL	Higher vocational education in combination with the diploma of course Wastewater Treatment for Process Controllers
DURATION	10 days
PARTICIPANTS	16
TRAINERS	South African and/or local professional trainers, certified by AquaDactics
INTRODUCTION	<p>The advanced course is the successor of the basic course. This course includes the same topics as the basic course, but it provides extensive information about the various subjects of wastewater treatment. The chemical, biological and physical processes are handled separately, addressed with the corresponding calculations. Using this knowledge and calculations, the participants will be able to indicate whether the process is good and effective.</p> <p>The participants are taught about the various components of a wastewater treatment plant. A plant consists of pipes, pumps and tanks. Each component has a specific function in the treatment process. The participants can describe the functioning of each component separately, but also the function of a unit consisting of various components. The management of the whole process, including sludge control and effluent, is part of the course, as well as trouble shooting. Topics like cost management, safety and energy reduction are also included.</p>
CONTENT	<p>Generally the same topics as the basic course are elaborated, but more deeply on the background, calculations and performance. The course exists of the following topics:</p> <ul style="list-style-type: none">• Mechanical separation techniques• Chemical, physical and biological treatment techniques• Nitrogen cycle, removal of nitrates and phosphates• Different plant lay-outs• Operating, maintenance and process control• Quality and safety
OUTCOME	After successfully completing this course you have a profound understanding of the working of a wastewater treatment plant.
COURSE MATERIAL	Course book and hand-outs of the presentations.
INFORMATION	This course includes a field visits to wastewater treatment plants.