World Water Academy

LET'S TRAIN PROFESSIONALS BETTER!

Water quantity

TARGET GROUP	Policy advisors, technical advisors water management, environmentalists, licensing and enforcement staff
ENTRY LEVEL	Bachelor degree
DURATION	4 days
PARTICIPANTS	16
TRAINERS	South African and/or Dutch experts, certified by AquaDactics

INTRODUCTION

Climate change is challenging our water management. Changing precipitation patterns and increasing temperatures are causing severe droughts on one hand and flooding on the other.
In this course you learn how water quantity differs per region and how water is transported through the catchment areas. You will learn about precipitation and evaporation, about drainage and storage. The hydrology of most common water systems like streams, rivers and lakes are discussed. You will calculate water balances and work with surface and groundwater models.

CONTENT

This course covers the following topics:

- Geo-hydrology of South Africa
- Streams, rivers, lakes
- Catchments
- Run off, drainage, storage
- Water balance of a catchment
- Relation ground surface water
- Climate change
- Drainage in urban areas
- Models
- Saturated zone, relation surface and groundwater, urbanized areas
- Drought and flooding

COURSE MATERIAL

Course book and hand-outs of the presentations

TRAINING APPROACH

In addition to classroom presentations this course comprises interactive and innovative training methods, such as group work, discussions, practical exercises, field work and role-plays.

EXTRA

After successfully completing the modules Water Quality, Water Quantity and Integrated water management you will be awarded a diploma Integrated Water Resource Management.