



2010 Short Course Programme

The water industry? Hydraulics and hydrology? Sustainable water management? Water modelling skills? Siphonic systems?

If you are looking to find answers to water-related questions or want to develop and add to your skills and knowledge, then the International Centre of Excellence in Water Resources Management (ICE WaRM) offers short courses in various water resource topics that may be of use to you.

All courses are presented in a two day format, while selected courses may also be offered over one day. All courses can also be tailored to suit institutional requirements. The course presenters are experts in their own specialised areas and many courses feature invited guests from the water industry to present relevant case studies. Course participants receive course notes and CD of the course. Prices are inclusive of GST.

AUSTRALIAN WATER INDUSTRY ESSENTIALS- 2 DAYS

The AWIE short course is presented in conjunction with the AWA and provides an up-to-date big picture view of the state of the water industry. Comprehensive in its treatment, the course covers technical, economic, environmental, legislative and social issues and is supported by activities and discussion exercises. Each course is state-specific in its use of examples, but the majority of the material reflects current issues in the industry as a whole and thus acts as a primer and reference guide.

Who should attend?

- Technical professionals who have recently joined the water industry
- Non water professionals from other sectors
- Commonwealth, State and local Government staff and consultants
- Anyone interested in the water industry

Cost: \$1800 (10% discount for AWA members)

Dates and locations:

Adelaide, Feb 25-26	Sydney, Aug 17-18
Melbourne, Apr 15-16	Brisbane, Oct 7-8
Canberra, Jun 15-16	Perth, Dec 2-3

HYDRAULICS AND HYDROLOGY FOR NON-ENGINEERS- 2 DAYS

This course is an introduction to the technical issues in hydraulics and hydrology leading to insights into and an understanding of water engineering. Complete with fully explained exercises and guided practice and based on the historical development of hydraulic and hydrological processes, the course will develop your professional skills and knowledge.

Who should attend?

- Environmental consultants
- Building services personnel
- Surveyors, architects, landscape designers, plumbers
- State and Federal Government employees
- Council officers
- Anyone who works with water engineers

Cost: \$1200

Dates and Locations:

Perth, Mar 25-26	Melbourne, Sep 9-10
Brisbane, May 21-22	Adelaide, Nov 25-26
Sydney, Jul 22-23	





POLICY AND GOVERNANCE - 2 DAYS

This course offers an overview of key issues in Australian water policy and governance, with potential application to any river basin providing an up-to-date summary of water management issues. The course content illustrates how sustainable water management issues are included in contemporary policy and governance decision-making processes. The difficulties in achieving a balance between a range of competing and conflicting issues are explored.

Who should attend?

- Policy makers and advisors in federal, state and local government organisations
- Water professionals
- Natural resource managers
- Professionals from related disciplines
- Members and support staff of Catchment Management Authorities

Cost: \$1200

Dates and Locations:

Brisbane, Mar 4-5
Canberra, Jun 29-30
Adelaide, Oct 21-22

RIVER AND FLOOD PLAIN MODELLING- 2 DAYS

This is a course for technical skill development. It offers training in HEC-RAS, a computer programme that is used to model channel and flood plain storage, time varying tidal boundaries and routes full hydrographs through dendritic and looped channel networks. Participants will be taken through a series of practical exercises and develop a sound knowledge of river and flood plain modelling and underlying theory.

Who should attend?

- Water engineers
- Surveyors
- Council Engineers
- State Government Agencies

Dates and Locations:

Adelaide, Apr 29-30
Melbourne, Nov 4-5
Perth, Jun 3-4

Cost: \$1600

SIPHONIC ROOF DRAINAGE AND DESIGN- 2 DAYS

Siphonic Roof Drainage Design is a state of the art drainage system. Siphonic systems are an innovation in roof and building design, offering significant cost savings and other improvements over conventional designs. Siphonic systems feature in large developments such as Sydney Olympic Stadium and international airport terminals to harvest stormwater for reuse; the system also works for much smaller structures. This course is essential for anyone involved in designing or approving drainage systems.

Who should attend?

- Hydraulic Services/Water Engineers
- Building Services Personnel
- Building surveyors
- Council Engineers
- Architects

Cost: \$1200- Dates yet to be confirmed.

For more information:

Tel: 08 8236 5213

**Email: training@icewarm.com.au;
or to register visit www.icewarm.com.au**