



Cooperative Research Centre for  
**IRRIGATION FUTURES**

## Irrigation Futures Training Series

### PIVOTS & LATERALS National Training Course

The Cooperative Research Centre for Irrigation Futures is offering a training course for **Growers/managers**

- > who are considering purchasing or
- > who have purchased centre pivot and lateral move irrigation systems

#### Course Outcomes:

- > Knowledge on design, installation and management of systems
- > Skills in calculating capacity and scheduling irrigation
- > More effective management of water and more efficient crop production

#### Course information:

- > Cost \$550 (including GST)
- > All trainers are experienced advisors for irrigations systems
- > This course applies to all crops
- > A 210 page technical manual is provided for all participants
- > Course held over two days – including a 3 hour field trip to inspect machines
- > Course times:
  - Day 1 9am – 4.30pm
  - Day 2 8am – 3pm
- > FarmReady funding available - To be eligible for the FarmReady Reimbursement Grant, you need to be either a: primary producer (including farmers, fishers and foresters as defined by the Australian Taxation Office); immediate family member of a primary producer; member of the management team of a primary production enterprise or Indigenous land manager. Visit website for information and application form <http://www.farmready.gov.au/> or phone 1800 087 670.

#### General enquiries and registration

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Print registration/payment form from website [www.irrigationfutures.org.au](http://www.irrigationfutures.org.au) click on News and Events, click on Calendar of Events and find course entry.



## Course modules

### Day 1

#### 1. General characteristics

- > Background on the history of CP/LM irrigation systems
- > Information on industry statistics
- > Introduction to components and the key inputs required for an effective CP/LM system

#### 2. Financial and economic considerations

- > Capital and operating costs
- > Costing an irrigation systems
- > Profitable or not?

#### 3. Planning considerations

- > Deciding on location – slope, soil, draining
- > Water supply issues – quantity and quality
- > Calculating the irrigable area
- > Determine peak water requirements
- > Methods of improving water use efficiency
- > Determining the feasibility of using or up-grading irrigation system

#### 4. Design considerations

- > Determining pipe specifications
- > Determining operating pressure
- > Calculating pumping costs
- > Identifying operational issues – wheel rutting, tyre sizes
- > Modifications to improve operation of a CP/LM
- > Maintenance issues

#### 5. System performance

- > Identify the importance of irrigation efficiency
- > Measure and record the performance
- > Performance parameters and impact on total water use and crop uniformity
- > Calculations to evaluate the irrigation system

### Day 2

**Field trip** – to inspect operating machines

#### 6. Sprinkler packages

- > Components of sprinklers - nozzles, pressure regulators
- > Types of sprinklers - socks, bubblers, quad-sprays
- > Sprinkler performance and maintenance

#### 7. Practical Issues

- > Scheduling irrigation
- > Soil water management issues
- > Comparison of CP/LM irrigation against other irrigation methods
- > Agronomic issues
- > Fertigation