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[www.ldca.org](http://www.ldca.org)

## **DRAINAGE COURSE**

**The LDCA would like to invite you to attend a Drainage Course for contractors and those involved in management of land for agriculture, amenity, and sportsturf surfaces.**

This course is being organised to cover the basic principles of land drainage. Whereas the practical side of land drainage such as machine control and setting out the site are usually learnt 'on the job' this course provides an opportunity for drainage contractors, farmers, groundsmen, greenkeepers, and others to gain an understanding of the theory of land drainage but in a very practical way.

The attached programme shows the topics covered right through from soils and water, to drainage design layout and installation, materials, machinery, and the use of GPS for site survey and design. The course covers both Agricultural and Sportsturf Drainage and includes practical exercises.

Years ago those involved with land drainage learnt the theory and practice of drainage on courses that were run by ADAS or notably Silsoe College but these are no longer available. The LDCA has therefore been providing these courses for LDCA Members for several years but is now opening them up to all contractors and others in the land drainage industry.

In running these courses we find contractors and sports clubs often send a number of their staff along as a group which works well.

We are holding a course in February at Loughborough in Leicestershire.

We would welcome your participation and hope you find the attached programme of interest.

Please contact me if you have any queries or require any further information.

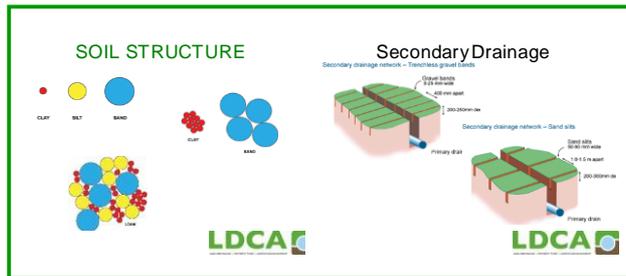
Best regards,

Bruce.

**Bruce N Brockway**  
LDCA Secretary

# LAND DRAINAGE COURSE

## February 10th 2016 Loughborough Leicestershire



A Land Drainage Course is being run for Drainage Contractors and those involved with agriculture, amenity, and sportsturf. The course will provide an introduction to land drainage systems and installation. It is intended for those who would benefit from gaining an understanding of the basic principles of land drainage. The programme content of the course is shown below and each delegate will receive a 'Certificate of Attendance' to show they have received training in the theory and practice of land drainage.

The LDCA is most grateful to FarmWorks via Mastenbroek who are sponsoring this course by equipping the LDCA with the latest FarmWorks GPS Drainage Mapping software from Trimble which will be utilised on this course.

*The course content will cover both agricultural and sportsturf drainage.*

### Programme:

#### Causes of poor drainage

- high water table
- impermeable layers
- run off

#### Symptoms of poor drainage

#### Benefits of good drainage

#### Soil and water

#### Drainage Systems

- piped main and laterals
- secondary drainage
- mole drainage

#### Design - site survey

- depth and spacing
- pipe size and grade
- typical schemes and layouts
- reinstatement drainage

#### Machinery

- types
- operator control

#### Use of GPS

- for survey
- for drainage scheme design

#### Materials

- pipes and junctions
- permeable fill

#### Installation

- soil conditions / timing
- quality of workmanship

#### Maintenance

- outfalls
- aeration

#### Environmental issues

- leaching / nitrates
- run off
- attenuation
- wetlands / habitat

As well as presentations on the above topics the course will include practical design exercises carried out in small groups. Tutors will be Rob Donald, Fred Clarke, and Mike Hann.

A booking form is attached to reserve your places.

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# LAND DRAINAGE COURSE

## Wednesday 10th February 2016 Loughborough Leicestershire

### BOOKING FORM

Please reserve ..... places on the following LDCA Land Drainage Course

Full details of location, directions etc will be sent with your booking confirmation and receipt.

(please tick)

10<sup>th</sup> February, Polypipe, Loughborough, Leics

LDCA Members at £125 + £25 VAT = £150 each  
Non Members at £150 + £30 VAT = £180 each

Total payable. = £  
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Company Name.....

Names of those attending .....  
.....  
.....  
.....

Please make your payment preferably by BACS or by cheque payable to LDCA and either email, or return this form to the LDCA at the above address.

For BACS payments LDCA bank details are:-

Account Name: The Land Drainage Contractors Association. Account Number: 01104988.  
Bank: Lloyds TSB, 73 Parade, Leamington Spa, Warwickshire CV32 4BB. Sort code: 30-94-93.