

# DRAINAGE CONTRACTOR WORKSHOP AGENDA

## DAY 1

### Registration at noon, Class starts at 1:00pm

- ♦ Introduction to Drainage Water Management
- ♦ MU Drainage and Sub-irrigation (MUDS) Research Update
- ♦ Water Movement in Soils
  - ♦ Processes and Terminology
  - ♦ Important Soil Properties
  - ♦ Hydraulic Conductivity
  - ♦ Soil Water Concepts
- ♦ Engineering Standards and Specs
  - Planning Considerations
    - ♦ Needs: Surface or Subsurface Drainage, Water Table Management, or Nutrient Management
    - ♦ System Layout & Outlet Locations
    - ♦ Utilities Determination - One-Call
  - Subsurface Drain Design, Pipe Capacity
    - ♦ Class Problem - Using Design Tables and Standards

Course Adjourns for the day at 5:00pm

## DAY 2

### Course Starts at 8:00am; Lunch Provided

- ♦ Class Problems Continued - Using Design Tables and Standards
- ♦ Lateral Design
- ♦ Making a Topographic Map from Survey Points

## DAY 2 (Continued)

- ♦ Planning Considerations
  - ♦ The importance of an On-Site Evaluation of Soil Properties
  - ♦ Wetland Determination
- ♦ Class Problem – System Design
- ♦ Pipe Installation Considerations
- ♦ Class Problem – Full Field Drainage Design

Course Adjourns for the day at 5:00pm

## DAY 3

### Course Starts at 8:00am; Lunch Provided

- ♦ TSP Provider Training
- ♦ Presentation and Summary of Full Field Drainage Design Problem
- ♦ Nitrogen Treatment for Drainage Systems
- ♦ Contractor/Industry/Farmer/University Panel Discussion
- ♦ Final Questions, Summary and Evaluation

Course Adjourns at 3:00pm

#### **We will provide:**

- ♦ Resource/Reference Manual
- ♦ Engineering Scales
- ♦ Lunches and Breaks

#### **You will need to bring:**

- ♦ Notepaper
- ♦ Pen or Pencil
- ♦ Calculator

# LANDOWNER DRAINAGE SHORT-COURSE AGENDA

11:00am Registration and Lunch

12:00pm - 2:00pm Presentation by Dr. Kelly Nelson on MU Drainage and Sub-irrigation (MUDS) Research Update and Q&A

## **Pre-Registration is required.**

Online at [www.MLICA.org/Events](http://www.MLICA.org/Events), or send a check made payable to MLICA; 1101 West High Street; Jefferson City, MO 65109; or call the MLICA office 573-634-3001.