



<http://ucanr.edu/sites/UCNFA/>

ABCs of Fertilizers and Plant Nutrition (English Session)

Registration fee \$90

Carson Center

801 E Carson St, Carson, CA 90745

August 22, 2016 7:30 am – 3:05 pm

Presenter: [Dr. Donald Merhaut](#), UC Cooperative Extension Specialist for Nursery and Floriculture Crops, UC Riverside
Continuing Education Units requested: DPR, CCA, CCN Pro, ISA

This workshop will provide an in-depth training on essential plant nutrients and the use of fertilizers for the floriculture and container nursery industries. Understanding when and how to use fertilizer will not only produce a healthier crop but also reduce cost of production and excess fertilizer and pesticides in runoff. Plant health is a key component of an Integrated Pest Management Program and optimizes the efficacy of pesticides and reduces the damage caused by insects and diseases. Participants will be able to:

- Identify and understand the role of plant nutrients and their role in plant growth.
- Determine the appropriate fertilizer program for individual nurseries.
- Describe and identify fertilizer types and how to incorporate them into a fertilizer program.
- Customize fertilizer application programs to individual needs to optimize nutrient uptake and reduce damage from over or under fertilization.

Agenda:

Time	Title	Topics
7:30 am		Registration and Light Refreshments
8:00am	Part 1	Review of essential plant nutrients and determining the fertilizer program for your nursery: Review of different kinds of nutrients and their role in plant growth as well as how irrigation water and plant media quality impact a fertilizer program. Sanitation impacts on nutrient integrity and the requirements of treating water. How proper nutrition management reduces disease incidence from damage to root and plant tissue that encourage and enable pathogens to attack the plant.
10:05am	Break	
10:25am	Part 2	Crop types and Fertilizer types will be discussed in detail, emphasizing: <ul style="list-style-type: none"> • Crop type- different water and nutrient requirements, separating crops by specific need. • Soluble fertilizers-special formulations, winter vs summer issues, and management of solutions. • Controlled Release- types, characteristics, performance, and BMP's when using. • Organic fertilizers-current types available, how nutrients are released and BMP's.
12:35p m	Lunch	
1:35pm	Part 3	Monitoring Crop Fertility Status. Review how to monitor fertility status through media, water and tissue analysis. Description and discussion on what should be monitored, how to monitor, and how to interpret lab reports. Review of sample lab reports incorporating samples of media, water and tissue samples. How to monitor media quality, water quality, tissue analysis, and benefits of proper record keeping.
3:05pm	Adjourn	Please fill out and turn in your meeting evaluation



Thanks to our partners