Hydroponic Tomato Intensive Workshop

with Dr. Triston Hooks

January 7th, 8th, & 9th, 2022

Online and On-site



Friday, January 7th

8:15 am- 8:30 am Welcome and Introductions

8:30 am- 9:10 am Introduction to CEA

9:10 am- 9:20 am Questions

9:20 am- 10:00 am Hydroponic Tomato Production Overview

10:00 am- 10:10 am Questions

10:10 am- 10:20 am Break

10:20 am- 11:00 am Tomato Propagation (seeds, substrate, irrigation, environment, and grafting)

11:00 am- 11:10 am Questions

11:10 am- 11:50 am Tomato Morphology and Steering (vegetative vs. generative)

11:50 am- 12:00 pm Questions

ON-SITE PARTICIPANTS

12:00 pm- 1:00 pm Lunch provided

1:00 pm- 1:30 pm Greenhouse rules and plant assignments

1:30 pm- 2:00 pm UA-CEAC facilities tour

2:00 pm- 3:00 pm Hands-on tomato propagation

3:00 pm- 3:15 pm Break

3:15 pm- 5:00 pm Tomato greenhouse work

o Identification of meristem, nodes, internodes, trusses

o Pruning and steering

Clips and truss support

o Leaning and lowering

Saturday, January 8th

8:30 am- 9:10 am Tomato Nutrient Solution Recipes, Fertigation, and Nutrient Deficiencies

9:10 am- 9:20 am Questions

9:20 am -10:00 am Tomato Environmental Factors and Greenhouse Controls

10:00 am- 10:10 am Questions

10:10 am- 10:20 am Break

10:20am- 11:00 am Tomato Pests and Diseases

11:00 am- 11:10 am Questions

11:10 am- 11:50 am Tomato IPM practices

11:50 am- 12:00 pm Questions

ON-SITE PARTICIPANTS

12:00 pm- 1:00 pm Lunch provided

1:00 pm- 2:00 pm Hands-on tomato greenhouse fertigation system and EC/pH

measurements

2:00 pm- 3:00 pm Hands-on tomato greenhouse environmental sensors and controls

3:00 pm- 3:15 pm Break

3:15 pm- 4:15 pm Hands-on scouting and pest identification

4:15 pm- 5:00 pm Hands-on biological control



Sunday, January 9th

8:30 am- 9:10 am Tomato Flowers, Pollination, and Fruit Development

9:10 am- 9:20 am Questions

9:20 am -10:00 am Tomato Harvesting, Grading, and Storage

10:00 am- 10:10 am Questions

10:10 am- 10:20 am Break

10:20 am- 11:00 am Food Safety and Certification

11:00 am- 11:10 am Questions

11:10 am- 12:00 pm Review and final questions

ON-SITE PARTICIPANTS

12:00 pm- 1:00pm Lunch provided

1:00 pm- 3:00 pm Tomato greenhouse work

o Pruning and steeringo Clips and truss supporto Leaning and lowering

Fruit harvesting and grading

3:00 pm- 3:15 pm Break

3:15 pm- 5:00 pm Hands-on tomato pollination and beehive operation