

INTERNATIONAL RAW CANE SUGAR MANUFACTURER'S INSTITUTE

May 31-June 9, 2023

Thibodaux, Louisiana

INTERNATIONAL CANE SUGAR REFINER'S INSTITUTE

July 17-27, 2023

Thibodaux, Louisiana



**OFFICE OF CONTINUING EDUCATION
NICHOLLS STATE UNIVERSITY**

For more information or to register:

[P] 985.448.4444 • [E] continuing.ed@nicholls.edu • nicholls.edu/continuing-ed/sugar

OBJECTIVES

The objectives of this program are:

- a. to promote training which will upgrade the skills of participants making them better employees;
- b. to provide background knowledge so that participants will be better prepared to assume positions of responsibility and leadership; and,
- c. to develop in participants an appreciation for the total operation of the plant.

COURSE FORMAT

Classes will be lecture and discussion. Instructors will be encouraged to conduct an informal class in order to encourage questions and discussions by participants. A-V equipment will also be utilized when appropriate. Upon successful completion of the institute, students are awarded a certificate of completion. Upon request, a certificate for applicable Continuing Education Units.

COST

The total fees for each course are **\$2,850** per participant. This includes room, board and all workshop materials. Housing is provided in the new University residence hall and is included in the fees. Fees for commuters are **\$2,550**. Local hotels are available for those who do not wish to stay in the residence hall.

FIELD TRIPS INCLUDE:

LSR Refinery • Domino Sugars • John Deere Thibodaux

RAW CANE SUGAR TOPICS

1. Overview of the Sugar Industry
2. Cane as the Raw Material
Varieties, Sampling and Payment Scale
3. Preparation and Milling
Storage, Washing, Chopping, Crushing/
Diffusion, Maceration Water, Sanitation
4. Clarification and Filtration
Purification, Apparatus, Reagents,
Reaction, Heating
5. Evaporation and Crystallization
Evaporation, Boiling Systems,
Pans and Designs, Molasses Exhaustion
6. Centrifugals
Principles, Efficiency, Maintenance
7. Energy Economy
Steam Balances, Energy Balance, Electrical
Utilization, Boiler Efficiencies, Bagasse as a
Source of Fuel
8. Basic Instrumentation/Operational
Computers Juice Scales, Flow Meters, Control
Valves,
Operational Control
9. Chemical Control
Chief Chemists, Laboratory, Factory Control
10. Government Programs/Regulations
Farm Bill, E.P.A., O.S.H.A., Quotas
11. Problem Solving
Panel of Experts
12. Résumé, Evaluation

REFINER'S CANE SUGAR TOPICS

1. Overview of the Sugar Industry
2. Clarification Methods
3. Adsorption Process/Ion Exchange
4. High-Grade and Low-Grade Crystallization
5. Conditioning, Storage of Granulated
and Liquid Sugar
6. Centrifugals and Their Operation
7. Sugar Marketing, Government Programs
8. Energy Economy
9. The Control Laboratory
10. Basic Instrumentation/Operational
Computers
11. Overview of Legal Regulations
(EEOC, EPA, FDA, OSHA, etc.)
12. Statistical Quality Control
13. Problem Solving, Panel of Experts
14. Résumé, Evaluation

Individuals needing accommodations (ADA) Contact (985) 448-4783 or visit nicholls.edu/ada