

IN-CONTAINER THERMAL PROCESSING SKILLS





October 6th-10th, 2025

Microbiology and Sterilization Concepts

Thermobacteriology
Canned Food Spoilage
Heat Resistance (D, z, and Fo values)

Retorts and Temperature Distribution

Heat Transfer Concepts Retort Systems Overview Temperature Distribution TC placement, Data Evaluation Calibration, Instrumentation

Heat Penetration and Critical Factors

Product and Retort-related Critical Factors HP Strategies for Different Retorts Calibration, Instrumentation TC placement, Data Evaluation

Process Calculation Methods

General Method
Ball Formula Method
Heating Factor Development
Process Calculation
Lethality Calculation
NumeriCAL™

Process Deviations

Approach, consideration and evaluation of thermal process deviations.

Overview of this advanced Method

Regulatory Overview

THIS COURSE INCLUDES HANDS-ON PILOT PLANT EXPERIENCE

Review HP procedures and then, with your team, design and conduct a complete heat penetration study in the Process Technologies Laboratory Pilot Plant. Instrument containers and collect data. Evaluate data and then compare results to those of other teams.

Contact:

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Course Instructors: JBT is an FDA and USDA recognized thermal process authority. Our staff has over 180 years of collective experience. Staff teaching this course includes: Karen Brown, Senior Research Engineer and Terry Heyliger, Thermal Processing Consultant.

Course Tuition: \$4,000 per student. Register before August 1st, 2025 and receive a \$300 reduction! Lunches, refreshments and course materials provided.