

2017-2018

BETTER PROCESS CONTROL SCHOOLS



gmaonline.org/sef
sef@gmaonline.org



[in @the-gma-foundation](https://www.linkedin.com/company/the-gma-foundation)



Better Process Control Schools

A training program for the processed food industry

To prepare industry practitioners and help companies meet federal regulations, the GMA Science and Education Foundation (GMA SEF) and its partner schools offer the Better Process Control Schools (BPCS). The GMA SEF is recognized by the U.S. Food and Drug Administration (FDA) with the authority to conduct company-specific on-site BPCS courses. In addition, we partner with accredited institutions around the world to deliver scheduled programs throughout the year.

Who should attend Better Process Control Schools

The BPCS program is an important and valuable educational opportunity for operators, mid-level managers and employees of food processing plants that utilize thermal processing.

The course is an excellent platform to improve thermal processing knowledge for food safety and quality assurance personnel, individuals who work with canned and flexible packaged food products, academia, auditors and government inspectors.

Advancement in abilities & compliance with regulations

The FDA regulations in 21 CFR 108, 113, and 114 became effective May 15, 1979, and requires that each processor of low-acid or acidified foods operate with a certified supervisor on hand at all times during processing. These regulations are designed to prevent public health problems in low-acid and acidified canned foods. In addition to meeting FDA regulations, the BPCS course also meets U.S. Department of Agriculture's Food Safety and Inspection Service (USDA FSIS) regulations 9 CFR 318.300 and 381.300 for thermally processed meat and poultry products as implemented on June 19, 1987.

The BPCS subject areas include thermal processing system operations, microbiological food safety, equipment operations, acidification and container closure evaluation for low acid and acidified canned foods.

Program Components

BPCS is comprised of several modules, each supplemented by a chapter from the course manual.

- **2-day BPCS:** Chapters 1,2, 4–8 (Federally mandated minimum)
- **3 and 4-day BPCS:** Additional chapters beyond the federally mandated minimum to customize program based on processor's requirements. When customizing a workshop for a client, GMA SEF will recommend modules based on the client's products, processing methods, and packaging system.

There are three training options to choose from:

- **Option 1:** Choose to attend an in-person training at one of our 40 partner schools. Refer to the later pages of this brochure for dates and times.
- **Option 2:** Company-Specific: Training is typically delivered by two instructors, at least one of whom is a recognized process authority. Trainings are customized to meet each facility's needs and can run from two to four days depending on the amount of materials covered. For arrangements within the U.S. or internationally, contact: Dr. Akhila Vasan, avasana@gmaonline.org | 202-637-4810 or Olivia Bazemore, obazemore@gmaonline.org | 202-639-5958.
- **Option 3:** Online: The University of Tennessee offers online BPCS training. Refer to the University of Tennessee section in the brochure for details

***All schools offer: On-Demand In-Person Training, Company Specific On-site Training. Training in languages other than English are noted in the brochure.**

At the completion of course work and examination, participants are awarded a certificate of completion, providing an additional respected credential to processing professionals.

Course Manual

The Canned Foods: Principles of Thermal Process Control, Acidification, and Container Closure Evaluation, 8th Edition is the only FDA approved text for the instruction of Better Process Control School. It can be purchased at www.GMABooks.org. The text is also available in other languages—Spanish, Chinese, French and Bahasa Indonesia. Upcoming translations include Vietnamese, Korean, Italian, Russian and Hindi.

Course Content

- | | |
|---|---|
| 1. Introduction | 9. Still Steam Retorts |
| 2. Microbiology of Thermally Processed Foods | 10. Still Retorts Processing with Overpressure |
| 3. Principles of Acidified Foods | 11. Hydrostatic Retorts |
| 4. Principles of Thermal Processing | 12. Continuous Rotary Retorts |
| 5. Principles of Food Plant Sanitation | 13. Batch Agitating Retorts |
| 6. Food Container Handling | 14. Aseptic Processing and Packaging Systems |
| 7. Records and Recordkeeping | 15. Closures for Double Seamed Metal and Plastic Containers |
| 8. Equipment, Instrumentation, and Operation for Thermal Processing Systems | 16. Closures for Glass Containers |
| | 17. Flexible and Semirigid Containers |

2017-2018 Participating Institutions

Bor S. Luh Food Safety Research Center at Shanghai Jiao Tung University (China)

OFFERS TRAINING IN CHINESE

LOCATION:

0-110, Faculty of Agriculture and
Biology, Shanghai Jiao No. 41 Mail
Box, Faculty of Agriculture and Biology
Shanghai 200240 China

COURSE CONTACT:

Dr. Jin Yue
jinyue@sjtu.edu.cn
+86-13651948103

REGISTRATION CONTACT:

Ms. Xiaowei Yang
yxw@sjtu.edu.cn
+86-13524778945

Campden BRI (United Kingdom)

BPCS: July 2–5, 2018

LOCATION:

Station Road, Chipping Campden,
Gloucestershire, GL55 6LD, UK

URL:

[campdenbri.co.uk/training/better-
process-control-school](http://campdenbri.co.uk/training/better-process-control-school)

COURSE CONTACT:

Ms. Jo. Rathkey
jo.rathkey@campdenbri.co.uk
+44 (0) 1386 842104

REGISTRATION CONTACT:

Ms. Jo Rathkey
training@campdenbri.co.uk
+44 (0) 1386 842104

Chapman University 2.5-Day Acidified Foods Workshop: March 19–21, 2018 & August 13–15, 2018

**4-Day Low Acid Foods Workshop:
March 19–22, 2018
& August 13–16, 2018**

LOCATION:

One University Drive,
Orange, CA 92866, USA

URL:

chapman.edu/bpcs

COURSE CONTACT:

Dr. Anuradha Prakash
prakash@chapman.edu
714-744-7826

REGISTRATION CONTACT:

Ms. Robyne Kelly
rokelly@chapman.edu
714-289-2040

Clemson University

OFFERS TRAINING IN SPANISH

**BPCS: November 28 –
December 1, 2017**

LOCATION:

ALOFT, Greenville, SC 29601

URL:

[clemson.edu/foodscience/
outreach](http://clemson.edu/foodscience/outreach)

COURSE CONTACT:

Dr. Felix Barron
fbarron@clemson.edu
864-656-5694

REGISTRATION CONTACT:

Ms. Glenda Brown
gbrwn@clemson.edu
864-656-5698

Cornell University

OFFERS TRAINING IN SPANISH

**Acidified Foods Only:
November 1–2, 2017
Low Acid and Acidified Foods:
April 30–May 3, 2018**

LOCATION:

630 W. North Street,
NYS Agric. Experiment Station
Geneva NY 14456, USA

URL:

[foodscience.cals.cornell.edu/
extension/events](http://foodscience.cals.cornell.edu/extension/events)

COURSE CONTACT:

Dr. Olga Padilla-Zakour
oip1@cornell.edu
315-787-2255

REGISTRATION CONTACT:

Ms. Gemma Osborne
gro2@cornell.edu
315-787-2248

November 13–17, 20–21

LOCATION:

Room 346, 55 Hanson Place
Brooklyn NY, 11217

COURSE CONTACT:

Dr. Christopher Loss
cr13@cornell.edu
315-569-6243

REGISTRATION CONTACT:

Ms. Gemma Osborne
gro2@cornell.ed
315-787-2248

Euroservizi Impresa SRL (Italy)

OFFERS TRAINING IN ITALIAN

BPCS: May 7–11, 2018

LOCATION:

Abitart Hotel, Via Pellegrino Matteucci,
10–00154, Roma, Italy
Tel. +39.064543191
abitarthotel.com

URL:

euroservizimpresa.it/

COURSE CONTACT:

Mr. Claudio Gallottini
info@euroservizimpresa.it
075 80 84 352

REGISTRATION CONTACT:

Ms. Noemi Trombetti
noemi.trombetti@euroservizimpresa.it
+39.3281936216

**Food Processing Specialists—
Retort Supervisor and Process
Control School (Australia)**

**New Zealand Retort Supervisors and
Process Control School: November
20–24, 2017 at the FoodBowl**

LOCATION:

Australia: 9 Kintore Avenue, Prospect
South Australia, 5082 Australia
New Zealand: FoodBowl, Auckland

URL:

**foodprocessingspecialists.com.au/
training**

COURSE CONTACT:

Ms. Julie Scholz
julie@foodprocessingspecialists.com
61427831321

REGISTRATION CONTACT:

Mr. Mike Moffat
mike@foodprocessingspecialists.com
61477043483

**Institute of Food Technology—
ITAL (Brasil)**

OFFERS TRAINING IN PORTUGUESE

BPCS: May 7–11, 2018

LOCATION:

Av. Brasil, 2880, Campinas SP
13070-178, Brasil

URL:

ital.sp.gov.br/gepc/

COURSE CONTACT:

Dr. Maria Isabel Berto
miberto@ital.sp.gov.br
+55 1937431835

REGISTRATION CONTACT:

Dr. Michele Berteli
berteli@ital.sp.gov.br
+55 1937431829

Iowa State University

BPCS: November 13–16, 2017

LOCATION:

1041 Food Sciences Building,
536 Farm House Lane, Ames IA 50011

URL:

ccur.iastate.edu

COURSE CONTACT:

Dr. Kevin Keener
kkeener@iastate.edu
515-294-4365

REGISTRATION CONTACT:

Dr. Kevin Keener
kkeener@iastate.edu
515-294-4365



JBT

OFFERS TRAINING IN SPANISH & ITALIAN

LOCATION:

2300 Industrial Avenue
Madera, CA 93637 USA

COURSE CONTACT:

Ms. Karen Brown
karen.brown@jbt.com
559-661-3345

REGISTRATION CONTACT:

Ms. Karen Brown
karen.brown@jbt.com
559-661-3345

King Mongkut's University of Technology Thonburi (Thailand)

OFFERS TRAINING IN THAI

BPCS: December 12–16, 2017

LOCATION:

126 Pracha Utit Rd., Bangmod,
Thungkru, Bangkok 10140 Thailand

URL:

cec.kmutt.ac.th

COURSE CONTACT:

Dr. TIPAPORN YOOVIDHYA
tipaporn.yoo@kmutt.ac.th
66 2470 9241

REGISTRATION CONTACT:

Ms. Wararuck Wilai
wararuck.wil@kmutt.ac.th
66 2470 9630-4

Louisiana State University

OFFERS TRAINING IN SPANISH

BPCS: January 8–11, 2018

BPCS: July 23–26, 2018

LOCATION:

212/214 Efferson Hall,
Baton Rouge, LA 70803, USA

URL:

**lsu.edu/departments/nfs/
outreach/training.htm#p5**

COURSE CONTACT:

Dr. Charles Boeneke
cboeneke@agcenter.lsu.edu
225-578-4383

REGISTRATION CONTACT:

Ms. Celika Murphy
cmurphy@agcenter.lsu.edu
225-578-5207

Mars Global Food Safety Center (China)

OFFERS TRAINING IN CHINESE

LOCATION:

Yanqi Economic Development Zone,
Huairou, Beijing, China, 101407

URL:

**mars.com/global/science-and-
innovation/science/food-safety**

CONTACT:

Ms. Cindy Sun
cindy.sun@effem.com

McGill University (Canada)

LOCATION:

21,111 Lakeshore, Ste-Anne-de-
Bellevue QC H9X3V9, Canada

URL:

**mcgill.ca/macdonald/programs/
fsqp/workshops**

CONTACT:

Dr. Brigitte Cadieux
fsqp.workshops@mcgill.ca
514-398-7544

Michigan State University

BPCS: October 17–20, 2017 &

March 6–9, 2018

2-Day Acidified Foods:

October 17–18, 2017 &

March 6–7, 2018

URL (OCTOBER REGISTRATION):

events.anr.msu.edu/BPCSOct2017/

URL (MARCH REGISTRATION):

**events.anr.msu.edu/
BPCSMarch2018/**

LOCATION (OCTOBER PROGRAM):

Michigan State University
Surplus Store and Recycling Center
468 Green Way
East Lansing, MI 48824

LOCATION (MARCH PROGRAM):

Michigan State University
Erickson Hall Room 228
620 Farm Lane
East Lansing, MI 48824

COURSE CONTACT:

ANR Event Services
events@anr.msu.edu
517-353-3175

REGISTRATION CONTACT:

ANR Event Services
events@anr.msu.edu
517-353-3175

New Mexico State University

OFFERS TRAINING IN SPANISH

**BPCS: December 13–14, 2017 &
May 16–17, 2018**

LOCATION:

P.O. Box 30003 MSC 3AE,
Las Cruces NM 88011, USA

LOCATION:

Mexico City, Mexico

URL:

**aces.nmsu.edu/ces/foodtech/
better-process-control-s.
html#anchor_161088**

COURSE CONTACT:

Dr. Nancy Flores
naflores@nmsu.edu
575-646-1179

REGISTRATION CONTACT:

Ms. Gloria Hernandez
glorhern@nmsu.edu
575-646-2198

**Nong Lam University
(Viet Nam)**

OFFERS TRAINING IN VIETNAMESE

LOCATION:

Linh Trung Ward
Ho Chi Minh, Viet Nam

URL:

**fst.hcmuaf.edu.vn/contents.
php?ids=30210&ur=fs**

COURSE CONTACT:

Dr. Tuyen Kha
khachantuyen@hcmuaf.edu.vn
84. (0) 909.367.094

REGISTRATION CONTACT:

Dr. Tuyen Kha
khachantuyen@hcmuaf.edu.vn
84. (0) 909.367.094

**Northwest Food
Processors Association**

BPCS: Dates TBD

LOCATION:

8338 NE Alderwood, Suite 160
Portland OR 97220, USA

URL:

nwfpa.org

CONTACT:

Ms. Kirsten Ringen
Kirsten@nwfpa.org
503-327-2220

The Ohio State University

OFFERS TRAINING IN SPANISH

**BPCS: March 12 -15, 2018 &
August 6-9, 2018**

**Acidified Foods Only:
June 13-14, 2018**

LOCATION:

2015 Fyffe Rd., 110 Parker Food
Science, Columbus OH 43210 USA

URL:

go.osu.edu/bpcs

COURSE CONTACT:

Dr. Valente B. Alvarez
alvarez.23@osu.edu

REGISTRATION CONTACT:

Ms. Heather Dean
dean.840@osu.edu
614-292-7004



Oregon State University
Combined Acidified Foods &
BPCS: December 11 – 14, 2017

LOCATION:

Dept. of Food Science & Technology,
100 Wiegand Hall,
Corvallis, OR 97331, USA

URL:

**oregonstate.edu/foodsci/2017-
afs-bpcs**

COURSE CONTACT:

Dr. Mark Daeschel
mark.daeschel@oregonstate.edu
541-737-6519

REGISTRATION CONTACT:

Ms. Debby Yacas
deborah.yacas@oregonstate.edu
541-737-6483

Penn State University
BPCS: April 30 – May 3, 2018

LOCATION:

Erickson Food Science Building,
Penn State University,
University Park, PA 16802

URL:

**foodscience.psu.edu/workshops/
better-process-control**

COURSE CONTACT:

Luke F LaBorde
lf15@psu.edu
814-863-2298

REGISTRATION CONTACT:

Ms. Kristin Smeltzer
kmk183@psu.edu
814-865-8237

Purdue University
OFFERS TRAINING IN SPANISH & HINDI

BPCS: May 21 – 24, 2018

LOCATION:

745 Agriculture Mall Drive,
Department of Food Science,
West Lafayette, IN 47907, USA

URL:

PurdueBPCS2018

COURSE CONTACT:

Dr. Dharmendra Mishra
mishra67@purdue.edu
765-494-2594

REGISTRATION CONTACT:

Ms. Amanda Shields
alschrei@purdue.edu
765-494-0270

Pusan National University
(South Korea)

OFFERS TRAINING IN KOREAN

BPCS: February 5 – 9, 2018 &
August 6 – 10, 2018

LOCATION:

Busandaehak-ro 63 Beon-gil 2
Geumjeonggu, Busan, 46241

URL:

fsn.pusan.ac.kr

COURSE CONTACT:

Dr. Jeehyun Lee
jeehyunlee@pusan.ac.kr
821034307516

REGISTRATION CONTACT:

Dr. Jeehyun Lee
jeehyunlee@pusan.ac.kr
821034307516

Rutgers University

BPCS: November 6-8, 2017

LOCATION:

Cook Campus, New Brunswick,
NJ 08901, USA

URL:

cpe.rutgers.edu/food

COURSE CONTACT:

Suzanne Hills
suzanne.hills@rutgers.edu
NJAES Office of Continuing
Professional Education
Rutgers University
102 Ryders Lane
New Brunswick, NJ 08901
Tel: 848-932-7234
Fax: 732-932-1187

REGISTRATION CONTACT:

Suzanne Hills
suzanne.hills@rutgers.edu
NJAES Office of Continuing
Professional Education
Rutgers University
102 Ryders Lane
New Brunswick, NJ 08901
Tel: 848-932-7234
Fax: 732-932-1187

Seafood Products Association

OFFERS TRAINING IN SPANISH

BPCS: April 24–28, 2018

LOCATION:

1600 S Jackson St.
Seattle, WA 98144 USA

URL:

spa-food.org

COURSE CONTACT:

Dr. Subba Rao Gurrum
sgurram@spa-food.org
206-323-3540

REGISTRATION CONTACT:

Dr. Subba Rao Gurrum
sgurram@spa-food.org
206-323-3540

Shawnee Community College

BPCS: February 13–16, 2018

LOCATION:

8364 Shawnee College Road
Ullin, IL 62992, USA

LOCATION:

Shawnee Community College, Anna
Center 1150 E. Vienna Street

Anna IL 62906

URL:

**events.constantcontact.com/
register/event?llr=oy5ve8cab
&oeidk=a07eej53jnca1465df9**

COURSE CONTACT:

Mrs. Gabriele Farner
gabrielef@shawneecc.edu
618-634-3240

REGISTRATION CONTACT:

Mrs. Gabriele Farner
gabrielef@shawneecc.edu
618-634-3240

Southeast Asia Food and Agricultural Science and Technology (SEAFST) Center Bogor Agricultural University (Indonesia)

LOCATION:

Jl. Ulin no. 1 IPB Darmaga Campus
Bogor 16680 Indonesia

COURSE CONTACT:

Dr. Puspo Edi Giriwono, Ph.D
Tel: +62-251-8629-535
Fax: +62-251-8629-903

TEINCO Tecnología Alimentaria (Spain)

OFFERS TRAINING IN SPANISH

BPCS: September 11, 2017

LOCATION:

Manuel Costas Bastos, 38 Candean,
Vigo, PO 36317 Spain

LOCATION:

Hotel NH Collection Vigo
Avenida García Barbón,
17-19 36201 Vigo – España

COURSE CONTACT:

Mr. Amado Caride Castro
acaride@teinco.es
+34606187013

REGISTRATION CONTACT:

Mr. Amado Caride Castro
acaride@teinco.es
+34606187013

Texas A&M University

LOCATION:

Courtyard Marriott,
College Station, TX, USA

URL:

aggie-horticulture.tamu.edu

COURSE CONTACT:

Dr. Al Wagner
a-wagner@tamu.edu
979-845-7023

REGISTRATION CONTACT:

Ms. Cindy Wise
cindywise@tpga.org
979-846-3285

Universidad del Valle de Guatemala (Guatemala)

OFFERS TRAINING IN SPANISH

LOCATION:

18 avenida 11-95 zona 15 Vista Hermosa II
Guatemala, Guatemala

COURSE CONTACT:

Ms. Ana Silvia Colmenares de Ruiz
asruiz@uvg.edu.gt
(502)23688319

REGISTRATION CONTACT:

Ms. Ana Silvia Colmenares de Ruiz
asruiz@uvg.edu.gt
(502)23688319

University of Alaska Fairbanks —Marine Advisory Program

LOCATION:

118 Trident Way, Kodiak, AK 99615,
USA

URL:

[seagrant.uaf.edu/conferences/
index.html](http://seagrant.uaf.edu/conferences/index.html)

COURSE CONTACT:

Mr. Chris Sannito
csannito@alaska.edu
907-486-1535

REGISTRATION CONTACT:

Ms. Astrid Rose
airose@alaska.edu
907-486-1500

University of Arkansas

**BPCS: October 31—
November 2, 2017**

LOCATION:

2650 North Young Ave,
Fayetteville, AR 72704, USA

URL:

[uark.edu/ua/foodpro/
Workshops/index.html](http://uark.edu/ua/foodpro/Workshops/index.html)

CONTACT:

Dr. Steven Seideman
seideman@uark.edu
479-575-4221

University of California–Davis

**BPCS: February 13–16, 2018
Acidified Foods Manufacturing
School: September 18, 2018**

LOCATION:

UC Davis Food Science and Technology,
Davis CA 95616-8598, USA

URL:

[ucfoodsafety.ucdavis.edu/Better_
Process_Control_Schools/](http://ucfoodsafety.ucdavis.edu/Better_Process_Control_Schools/)

COURSE CONTACT:

Dr. Linda Harris
zgates@ucdavis.edu
530-752-5901

REGISTRATION CONTACT:

Ms. Zann Gates
bpcsonline@ucdavis.edu
530-752-5901

University of Georgia

**BPCS—Acidified Foods Only:
November 7–9, 2017
BPCS: March 20–23, 2018**

LOCATION:

240 Food Science Building, 100 Cedar
Street, Athens, GA 30602, USA

URL:

efsonline.uga.edu

COURSE CONTACT:

Dr. Anand Mohan
anandmohan@uga.edu
706-542-2574

REGISTRATION CONTACT:

Ms. Marian Wendinger
marianw@uga.edu
706-542-2574

University of Hawaii

OFFERS TRAINING IN TAGALOG

**BPCS: March 2018
Other Dates: foodsafetyhawaii.
org/event/**

LOCATION:

Asian Institute of Management
Conference Center

URL:

FoodSafetyHawaii.org

CONTACT:

Dr. Aurora Saulo
aurora@hawaii.edu
808-226-1950

University of Nebraska–Lincoln

**BPCS: September 26–28, 2017 &
September 25–27, 2018
BPCS for Acidified Foods:
April 16–18, 2018
BPCS: September 25–27, 2018**

LOCATION:

Food Innovation Center, 1901 North 21st
Street, Lincoln, NE 68588-6206, USA

URL:

fpc.unl.edu/bpcs

COURSE CONTACT:

Dr. Jayne Stratton
jstratton1@unl.edu
402-472-2829

REGISTRATION CONTACT:

Ms. Jill Gifford
jgifford1@unl.edu
402-472-2819

University of Tennessee

OFFERS ONLINE TRAINING

BPCS: January 23-26, 2018 (Jan 23-24 Acidified Only) & April 17-20, 2018 (April 17-18 Acidified Only)

LOCATION:

2510 River Dr., Food Science Bldg.,
Knoxville TN 37996, USA

URL:

tiny.utk.edu/BPCS

CONTACT:

Mr. Nathan Miller
nmille12@utk.edu
865-974-7287

University of Vermont

OFFERS TRAINING IN SPANISH

**BPCS—Acidified Foods Only:
Dates TBD**

LOCATION:

278 South Main Street, Suite 2, St.
Albans, VT 05478-1866, USA

URL:

**uvm.edu/extension/food_safety_
producers_and_processors**

CONTACT:

Dr. Omar Oyarzabal
omar.oyarzabal@uvm.edu
802-524-6501 (x452)

University of Wisconsin–Madison

BPCS: April 23–26, 2018

LOCATION:

Pyle Conference Center 702 Langdon
Street Madison WI 53706, USA

URL:

foodsafety.wisc.edu

COURSE CONTACT:

Dr. Barbara Ingham
bingham@wisc.edu
608-263-7383

REGISTRATION CONTACT:

Ms. Angela Chopp
angela.chopp@ecc.uwex.edu
608-262-2451

Washington State University

BPCS: February 6–9, 2018

LOCATION:

HOLIDAY INN EXPRESS & SUITES
Seattle Sea-Tac Airport
19621 International Boulevard
SeaTac, WA 98188, USA

URL:

**foodprocessing.wsu.edu/extension/
training/bpcs/**

CONTACT:

Dr. Girish Ganjyal
509-335-5613

REGISTRATION CONTACT:

Ms. Cathy Blood
blood@wsu.edu
509-335-2845



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sef@gmaonline.org



 [@the-gma-foundation](https://www.linkedin.com/company/the-gma-foundation)