



UNITED WE BREW

# 2023 Brewery Maintenance Systems Course

Course Director: Katrina Bruner, AB InBev

June 8– August 11, 2023

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## Virtual

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### Orientation

*June 8, 3:00 - 4:00 pm CT*

### Week 1: Safety

*June 9-15*

**Independent Learning:**

- Safety: LOTO, Confined Spaces, HazCom, PIT, PPE – *Mark Jaeggi, Sabhailteacht Solutions, LLC*
- SOPs – *Larry Posluszny, Accel Performance Solutions, LLC*
- Project Management, Design Modifications & Bid Review – *Pat Buchana*

**Live Zoom Discussion:** Thursday, June 15, 1:00 -4:00 CT

- Virtual Happy Hour, 4:00- 5:00 (Optional)

### Week 2: Plant Maintenance Program & Project Management

*June 16-22*

**Independent Learning:**

- Maintenance Software – *Chris Hyberger, New Glarus*
- Stainless Steel Passivation – *Oliver Meinhold, Zee Loeffler*
- Floors and Drains – *Randy Butera, Sika Corp*

**Live Zoom Discussion:** Thursday, June 22, 1:00 -4:00 pm CT

- Virtual Happy Hour, 4:00- 5:00 (Optional)

### Week 3: Equipment

*June 23-29*

**Independent Learning:**

- Valves – *Charley Phipps, Pentair*
- Sanitary Pumps – *Randy Verges, Fristam Pumps USA*
- Lubrication – *TBD*

**Live Zoom Discussion:** Thursday, June 29, 1:00 -4:00 CT

- Virtual Happy Hour, 4:00- 5:00 (Optional)



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### No Class

*June 30- July 6*

### Week 4: Instrumentation & Automation

*July 7- July 13*

#### Independent Learning:

- Instrumentation – *Andrew Klosinski, Highland Brewing Co.*
- PID Controllers – *Bob Rice, Control Station Inc.*
- Brewery Automation – *Ryan Hutchinson, Gray Solutions*

**Live Zoom Discussion:** Thursday, July 13, 1:00 -4:00 pm CT

- Virtual Happy Hour, 4:00- 5:00 (Optional)

### Week 5: Water Processing & CIP

*July 14 – July 20*

#### Independent Learning:

- Supply water basics – *Rick Brundage & Jack Bland, ChemTreat, Inc.*
- Sanitation & Clean in Place – *Oliver Meinhold, Zee Loeffler*
- Wastewater – *Jeff Van Voorhis, Symbiont, A Mead & Hunt Company*

**Live Zoom Discussion:** Thursday, July 20, 1:00 -4:00 pm CT

- Virtual Happy Hour, 4:00- 5:00 (Optional)

### Week 6: Utilities

*July 21- July 27*

#### Independent Learning:

- CO<sub>2</sub> Systems – *TBD*
- Glycol Systems – *Dan Stromberg, GF Piping Systems*
- Compressed Air – *John Molnar, Rogers Machinery*

**Live Zoom Discussion:** Thursday, July 27, 1:00 -4:00 pm CT

- Virtual Happy Hour, 4:00- 5:00 (Optional)

### Catch-Up/ Capstone Project Work Week

*July 28- August 4*



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**In-Person at the University of St. Thomas, Minneapolis, MN**

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### Sunday, August 6

- Opening Banquet (6:00 pm)

### Monday, August 7

- Safety with Mark Jaeggi, Sabhailteacht Solutions, LLC
- Tour: Buhler Group, Food Application Center & Mill Rollpack Refurbishment Service Center

### Tuesday, August 8

- Brewery Maintenance Systems -- *Chris Hyberger, New Glarus Brewing Co.*
- Can Seamer Training with TBD
- Plate and Frame Heat Exchangers (HEX) with Alfa Laval
- Steam – *Joe Singerling, Fulton Steam*

### Wednesday, August 9

- Predictive Maintenance with Allied Reliability
- Yeast Centrifuge with GEA
- Demonstration at Surly Brewery: Yeast Centrifuge Overhaul & Thermography Scanning

### Thursday, August 10

- Valves with Charley Phipps, Pentair
- Ozone Sanitation Systems with Ozone Solutions
- Ionized Surface Tension Technology with IDD Process & Packaging Inc.
- Tour: Ecolab

### Friday, August 11

- Capstone Project Presentations
- Tour: Chart Industries
- Closing Banquet (6:00 pm)