



## ONLINE COURSES

### INDUSTRY: FOOD & BEVERAGE

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## ARMSTRONG UNIVERSITY

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*Knowledge Not Shared is Energy Wasted.®*

Welcome to Armstrong University Online for the Food and Beverage Industries. We offer a variety of online courses to address the many issues you face each day.

Maximizing quality, productivity and efficiency is as crucial to the profitability of your food company as it is challenging to achieve. Every day you face tight margins, rising energy and commodity prices, food and labor safety, sanitation regulations and labeling requirements, as well as increased demands to conserve water and energy while reducing your carbon footprint. Addressing these vital concerns effectively requires vast knowledge and experience that only an industry expert like Armstrong can provide. We are global leaders in energy management, and our intelligent solutions in steam, air and hot water consistently save time, money and energy for some of the largest food and beverage companies in the world.

From designing the thermal utility system for your new facility to custom-engineering and turnkey solutions for each of your existing plants worldwide, Armstrong does it all. Applying our uniquely holistic approach, we identify opportunities for improvement, uncover inefficiencies and reveal the root cause of any issues before implementing the best solution. By optimizing your processes, Armstrong can increase productivity and efficiency through proper thermal balance of your system. We not only solve your problems, we prevent them with reliable, long-term, sustainable solutions designed to provide superior return on your investment.

As your thermal utility partner, Armstrong is here to make things easier for you. Our experts will manage your system for you, or provide the knowledge and training necessary to help you manage it yourself more efficiently. We've amassed extensive data, enabling us to objectively assess the performance of your facilities compared to that of your competition. Armstrong offers comprehensive expertise in utility system engineering as well as on-site solutions, turnkey installations, quality manufacturing, hardworking products, innovative services, and groundbreaking technology for monitoring, measuring, and notification—all demonstrating unparalleled value and improved utility performance.

More than a century of sage knowledge and in-depth industry expertise enables us to serve you in ways no one else can. You can access this wealth of insight and information conveniently through Armstrong University. To learn more about what Armstrong International can do for you, or to speak with an Armstrong expert from your region of the world, please contact us. When you turn to Armstrong, you can consider it done.

Visit [armstronginternational.com/courses-food](http://armstronginternational.com/courses-food) today.

Armstrong provides intelligent system solutions that improve utility performance, lower energy consumption, and reduce environmental emissions while providing an “enjoyable experience.”

**Recommended courses for the Food and Beverage Industries - [armstronginternational.com/courses-food](http://armstronginternational.com/courses-food)**  
**For a complete listing of courses, click here: [Course Handbook](#)**

**COMMON ISSUE: INCREASE PRODUCTION AND YIELD**

Subject	College	Course
Heat transfer management	College of Steam Users	BASIC HEAT TRANSFER
Hot water generation	College of Hot Water	INDUSTRIAL HOT WATER SYSTEMS <span style="float: right;">FREE COURSE</span>
Digital hot water control	College of Hot Water	INDUSTRIAL WATER TEMPERATURE CONTROLS & WASHDOWN
Steam quality monitoring	College of Steam Principles	STEAM QUALITY
	College of Steam Users	TYPICAL OPTIMIZATIONS ON A STEAM USER

**COMMON ISSUE: SAFETY AND SKILL DEVELOPMENT OF UTILITY PERSONNEL**

Subject	College	Course
Water hammer mitigation	College of Steam Principles	WATER HAMMER
Safety	College of EH&S	SAFETY TRAINING 101 PACKAGE <span style="float: right;">QUALIFIES FOR CEU</span>

**COMMON ISSUE: INCREASE SUSTAINABILITY**

Subject	College	Course
Effective pressure/temp control	College of Steam Distribution	PRESSURE AND TEMPERATURE CONTROL ESSENTIALS
Enhancing steam system performance	College of Steam Distribution	TYPICAL OPTIMIZATION FOR A STEAM DISTRIBUTION SYSTEM
Recognition of system inefficiencies/auditing	College of Steam Users	O&M BEST PRACTICES FOR STEAM USERS
Condensate management	College of Condensate Return	O&M BEST PRACTICES FOR CONDENSATE RETURN SYSTEMS
	College of Condensate Return	CONDENSATE QUALITY & CONTAMINATION

**COMMON ISSUE: ACCURATE MONITORING AND METERING**

Subject	College	Course
Effective flow measurement	College of Flow Measurement	FUNDAMENTALS OF FLOW MEASUREMENT <span style="float: right;">FREE COURSE</span>
	College of Flow Measurement	FUNDAMENTALS OF FLOW MEASUREMENT - ADVANCED

**OTHER COURSES YOU MAY FIND HELPFUL**

Subject	College	Course
	College of Steam Users	HEAT EXCHANGERS
	College of Steam Users	STEAM TRAPS <span style="float: right;">FREE COURSE</span>
	College of Steam Users	TYPICAL STEAM USERS <span style="float: right;">FREE COURSE</span>
	College of Steam Principles	TYPICAL STEAM AND CONDENSATE SYSTEM COMPONENTS
		<span style="float: right;">FREE COURSE</span>
	College of Steam Principles	STEAM BASICS <span style="float: right;">FREE COURSE</span>
	College of Steam Generation	TYPICAL LAYOUT OF A BOILER HOUSE
	College of Hot Water	HEAT EXCHANGERS FOR DOMESTIC AND PROCESS HOT WATER
	College of Steam Users	DIRECT AND IN-DIRECT STEAM HEATING