



## ONLINE COURSES

### INDUSTRY: HOSPITALITY

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## ARMSTRONG UNIVERSITY

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*Knowledge Not Shared is Energy Wasted.®*

Welcome to Armstrong University Online for the Hospitality Industry. We offer a variety of online courses to address the many issues you face each day.

In the hospitality industry, creating a comfortable, safe, convenient environment is crucial to providing your guests with a pleasant, gratifying experience that will bring them back, again and again. Safety, comfort and ultimately, customer satisfaction all depend on your ability to maintain a constant supply of hot water at precision-controlled temperatures. As global leaders in hot water generation and control, Armstrong is swiftly rising as the international brand standard for many hospitality brands. We are the thermal utility partner for several major hotel chains and our intelligent system solutions in hot water, steam and conditioned air are consistently saving time, money and energy for institutions just like yours.

From system design for your new facility to custom-engineering solutions for each of your existing facilities worldwide, Armstrong does it all. We're here to make things easier for you with a vast range of products and services designed to enhance customer satisfaction, guest safety and energy savings. Armstrong provides comprehensive expertise in utility system engineering as well as on-site solutions, turnkey installations, hardworking products, and more—all demonstrating unparalleled value and improved utility performance.

More than a century of sage knowledge and in-depth expertise enables us to serve you in ways no one else can. You can access our wealth of insight and information conveniently through Armstrong University. Courses range from free introductory courses to more advanced, paid courses that provide deeper material. Many qualify for Continuing Education Units. 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-hospitality](http://armstronginternational.com/courses-hospitality) 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 Hospitality Industry - [armstronginternational.com/courses-hospitality](https://armstronginternational.com/courses-hospitality)**

**For a complete listing of courses, click here: [Course Handbook](#)**

#### COMMON ISSUE: INCREASE GUEST SATISFACTION AND SAFETY

Subject	College	Course
Hot water generation	College of Hot Water	INSTITUTIONAL HOT WATER SYSTEMS - INTRODUCTION
	College of Hot Water	INSTITUTIONAL HOT WATER SYSTEMS - ADVANCED
Water temperature control	College of Hot Water	INSTITUTIONAL WATER TEMPERATURE CONTROLS
Guest safety	College of Hot Water	LEGIONELLA
	College of EH&S	SAFETY TRAINING 101 PACKAGE
Proper humidification	College of Humidification	FUNDAMENTALS OF HUMIDIFICATION
	College of Humidification	COMPONENTS IN AN HVAC SYSTEM
Water Hammer Mitigation	College of Steam Principles	WATER HAMMER

#### COMMON ISSUE: OPERATE MORE EFFICIENTLY

Recognition of system inefficiencies	College of Hot Water	TYPICAL ENERGY SAVINGS IN HOT WATER SYSTEMS
	College of Steam Generation	STEAM COSTS
	College of Steam Generation	TYPICAL OPTIMIZATIONS IN A BOILER HOUSE
Efficient heat exchange	College of Hot Water	HEAT EXCHANGERS FOR DOMESTIC AND PROCESS HOT WATER
	College of Steam Users	HEAT EXCHANGERS
	College of Hot Water	HEAT PUMPS
Process heat recovery	College of Heat Recovery	COOLERS AND CONDENSERS
Condensate management	College of Condensate Return	O&M BEST PRACTICES FOR CONDENSATE RETURN SYSTEMS
O&M services	College of Steam Users	O&M BEST PRACTICES FOR STEAM USERS
Steam and condensate system components	College of Steam Principles	TYPICAL STEAM AND CONDENSATE SYSTEM COMPONENTS
Enhancing steam system performance	College of Steam Distribution	TYPICAL OPTIMIZATION FOR A STEAM DISTRIBUTION SYSTEM

#### COMMON ISSUE: MONITORING, MEASURING AND AUDITING

Effective flow measurement	College of Flow Measurement	FUNDAMENTALS OF FLOW MEASUREMENT
	College of Flow Measurement	FUNDAMENTALS OF FLOW MEASUREMENT - ADVANCED
Steam quality monitoring	College of Steam Principles	STEAM QUALITY

#### OTHER COURSES YOU MAY FIND HELPFUL

Steam Principles	College of Steam Principles	STEAM BASICS
Steam Trap Operation	College of Steam Users	STEAM TRAPS