



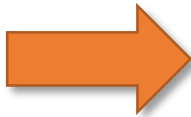
Online Learning Guide



By Human Resource Department

How to Learning online...?

E-LEARNING



Open Armstrong Site : educational.armstronginternational.com

A screenshot of a web browser showing the Armstrong Single Sign-On login page. The browser's address bar shows the URL <https://login.armstronginternational.com/cas/login?service=http%3A%2F%2Feducation.armstronginternational.com%2Flogin%2Findex.php>, which is circled in red. The page features the Armstrong logo and the text 'ARMSTRONG SINGLE SIGN-ON'. Below this is a white box with the heading 'ENTER YOUR USERNAME AND PASSWORD'. It contains two input fields: 'Username:' and 'Password:'. Below the fields are two buttons: 'LOG IN' and 'CLEAR'. At the bottom of the box are three links: 'Forgot your password?', 'What is my username?', and 'Register'. The background of the page is a grayscale image of a modern building with many windows. At the bottom of the page, there is a copyright notice: '© 2016 Armstrong International, Inc.'

How to Learning online...?

E-LEARNING



Before Learning : Please Register on this site

Armstrong Central Author: X

← → ↻ <https://login.armstronginternational.com/cas/login?service=http%3A%2F%2Feducation.armstronginternational.com%2Flogin%2Findex.php>

ENTER YOUR USERNAME AND PASSWORD

Username:

Password:

LOG IN **CLEAR**

[Forgot your password?](#) [What is my username?](#) [Register](#)

**Click Here to
Register !!**



How to Learning online...?

Register : Fill Data in text box.



1. **Password : Password must be at least six character (Require alphabet and number) And verify password.**
2. **First Name : Your Name**
3. **Last Name : Your Surname**
4. **Company Name : Alpha Group**



REGISTER

Register

Password *

Verify Password *

Identification

First Name *

Last Name *

Title

Company Name *

How to Learning online...?

Register : Fill Data in text box.



1. Industry : “Business and Profesional Service”
2. Job Function : Your position
3. Country : Thailand
4. Address : Company address
5. City : Bangkok



Industry *

- Select -

Job Function

Contact Information

Country *

Address1 *

Address2

City *

State/Province

Alabama

Zip/Postal Code

How to Learning online...?

Register : Fill Data in text box.

1. **Phone : Your Mobile Number or Company phone number**
2. **E-mail address : Your E-mail (Company Mail)**

After that ARMSTRONG will be confirm your register to your E-mail and inform User name for SIGN IN.

A screenshot of a registration form. It includes fields for 'Phone *', 'Fax', 'E-Mail Address *', and 'Comments'. There are radio buttons for 'E-mail me updates' (Yes/No) and a link for 'View Privacy Policy'. A CAPTCHA image shows the text 'kT f a 2'. Below the CAPTCHA is a 'SUBMIT' button, which is circled in red. An orange arrow points from the 'SUBMIT' button in the instructions to the 'SUBMIT' button on the form.

Phone *

Fax

E-Mail Address *

E-mail me updates
☒ Yes
☐ No
[View Privacy Policy](#)

How did you find this site?
[Dropdown menu]

Comments

kT f a 2

What code is in the image? *

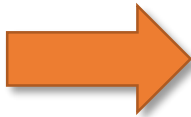
Enter the characters you see in the image:

SUBMIT

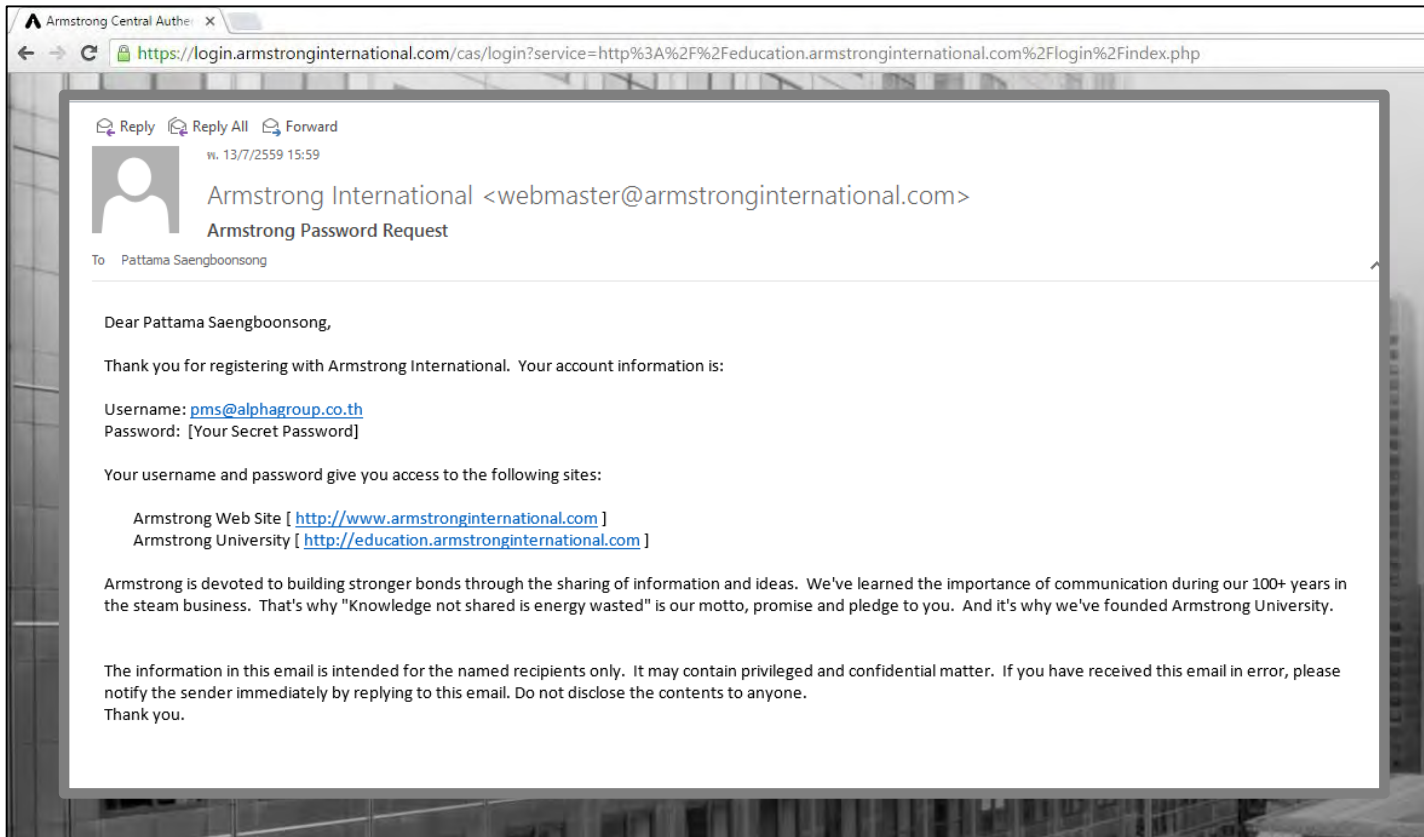
**Click Here to
SUBMIT**

How to Learning online...?

E-LEARNING



E-mail : Confirm and inform User name from Armstrong Website.



How to Learning online...?



**Let's start to
Learning**



How to Learning online...?

Log in by Your Username and Password

Armstrong
ARMSTRONG SINGLE SIGN-ON

ENTER YOUR USERNAME AND PASSWORD

Username:



Password:

[LOG IN](#) [CLEAR](#)

[Forgot your password?](#) [What is my username?](#) [Register](#)



How to Learning online...?



HOME

NAVIGATION

HOME

- MY HOME
- SITE PAGES
- MY PROFILE
- MY COURSES

阿姆斯壮大学

阿姆斯壮大学

阿姆斯壮大学测验专用

SETTINGS

- MY PROFILE SETTINGS

ONLINE USERS

(last 240 minutes)

- Pattama Seerigboonsong
- BRJESH TRIVEDI
- Theron Zhang
- Hussein Sieman

ARMSTRONG UNIVERSITY

Knowledge Not Shared is Energy Wasted.®

Welcome to Armstrong University! We believe continuous learning is a key to our success. This resource is here for you to learn essential information and advance your career. This site has been created to meet your training needs with standards-compliant content, on-demand or virtual classroom materials. In addition, formal assessments and reporting make getting information you need to manage your education easier at Armstrong.

Armstrong's global learning initiative has been developed to provide an online- academic platform for continued professional and personal growth in the areas of:

- thermal utilities,
- industry specific solutions and
- environmental, health and safety.

Start here by completing these introductory courses:

- Steam Basics
- Typical Steam and Condensate System Components
- Typical Steam Users
- Steam Traps
- Components of a Heat Recovery System
- Components of an HVAC System
- Fundamentals of Humidification
- Institutional Hot Water Systems - Intro
- Industrial Hot Water Systems

MAIN MENU

- MY GRADES
- WHAT'S NEW?
- KNOWLEDGE SOURCE GLOSSARY
- BIO'S
- LET US KNOW WHAT YOU THINK OF ARMSTRONG UNIVERSITY
- COURSE CATALOG
- ARMSTRONG UNIVERSITY VIDEO
- ARMSTRONG UNIVERSITY SCORECARD
- ARMSTRONG UNIVERSITY COURSE HANDBOOK - PUBLIC STUDENT
- FREQUENTLY ASKED QUESTIONS
- 阿姆斯壮大学
- ARMSTRONG WEBSITE

TECH TIP

Positioner



WELCOME TO ARMSTRONG UNIVERSITY

How to Learning online...?



tronginternational.com

HOME

NAVIGATION

HOME

MY HOME

SITE PAGES

MY PROFILE

MY COURSES

阿姆斯壮大学

阿姆斯壮大学测验专用

SETTINGS

MY PROFILE SETTINGS

ONLINE USERS

(last 240 minutes)

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HOME

NAVIGATION

HOME

MY HOME

SITE PAGES

MY PROFILE

MY COURSES

阿姆斯壮大学

阿姆斯壮大学

阿姆斯壮大学测验专用

You are logged in

Click here to My Courses

Positioner

How to Learning online...?

OR

Click to Main topic
for choose subject .



Armstrong provides intelligent system solutions to reduce energy consumption, and reduce environmental experience.

To learn more about Armstrong, view our video.

COURSE CATEGORIES

- COLLEGE OF FLOW MEASUREMENT (2)
- COLLEGE OF HEAT RECOVERY (3)
- COLLEGE OF HUMIDIFICATION (11)
- COLLEGE OF HOT WATER (12)
- COLLEGE OF WATER TREATMENT (3)
- COLLEGE OF REFRIGERATION (1)
- COLLEGE OF INDUSTRY SPECIFIC SOLUTIONS & SERVICES (15)
- COLLEGE OF SOLUTION SALES (8)
- CONTINUING EDUCATION UNITS (CEUS) (1)
- SAGE CAREER DEVELOPMENT PROGRAM
- TRAP/DRAINER/VENT/MANIFOLD LEVEL (7)
- CONDENSATE LEVEL (8)
- CONTROL VALVES LEVEL (1)
- PRESSURE AND TEMPERATURE CONTROLS LEVEL (1)
- SMART SOLUTIONS LEVEL (7)

阿姆斯壮大学测验专用 (1)

Search courses: [Go](#)

COURSE CATEGORIES

- ARMSTRONG CULTURE (3)
- COLLEGE OF ENVIRONMENTAL HEALTH AND SAFETY (4)
- COLLEGE OF STEAM PRINCIPLES (8)
- COLLEGE OF STEAM GENERATION (12)
- COLLEGE OF STEAM DISTRIBUTION (12)
- COLLEGE OF STEAM USERS (18)
- COLLEGE OF CONDENSATE RETURN (9)
- COLLEGE OF FLOW MEASUREMENT (2)
- COLLEGE OF HEAT RECOVERY (3)
- COLLEGE OF HUMIDIFICATION (11)
- COLLEGE OF HOT WATER (12)
- COLLEGE OF WATER TREATMENT (3)
- COLLEGE OF REFRIGERATION (1)
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- 阿姆斯壮大学测验专用 (1)

Search courses: [Go](#)

How to Learning online...?



NAVIGATION

HOME

MY HOME

SITE PAGES

MY PROFILE

MY COURSES

COURSES

ARMSTRONG CULTURE

COLLEGE OF ENVIRONMENTAL

HEALTH AND SAFETY

COLLEGE OF STEAM

PRINCIPLES

COLLEGE OF STEAM

GENERATION

COLLEGE OF STEAM

DISTRIBUTION

COLLEGE OF STEAM USERS

COLLEGE OF CONDENSATE

RETURN

COLLEGE OF FLOW

MEASUREMENT

COLLEGE OF HEAT RECOVERY

HEAT RECOVERY SYSTEM -

M2144

COMBINED HEAT AND

POWER - M2175

COOLERS & CONDENSERS

M2145

COLLEGE OF HUMIDIFICATION

COLLEGE OF HOT WATER

COLLEGE OF WATER

TREATMENT

COLLEGE OF REFRIGERATION

COLLEGE OF INDUSTRY

SPECIFIC SOLUTIONS &

SERVICES

COLLEGE OF SOLUTION SALE

CONTINUING EDUCATION

Course categories:

College of Heat Recovery

Heat recovery is a method of reducing the overall energy consumption of industrial facilities. The Armstrong College of Heat Recovery will explain how recovered heat can help reduce energy consumption and provide useful heat for other purposes.

TYPICAL COMPONENTS OF A HEAT RECOVERY SYSTEM

In this course, you will learn how to:

- Identify types of equipment found in a typical heat recovery system
- Use a common vocabulary and nomenclature for heat recovery components

Course length: 30:00 min

Typical Components of a Heat Recovery System



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COMBINED HEAT AND POWER

By the end of this course, you will:

- Learn the basic functions of a Combined Heat and Power (CHP) System
- Identify Cogeneration and Trigeneration Systems
- Review the advantages of CHP and Combined Cooling Heat and Power (CCHP)

Course length: 30:00 minutes



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COOLERS & CONDENSERS

In this course, you will:

- Learn the different types of coolers and condensers
- Identify general applications for coolers and condensers
- List the basic components of coolers and condensers
- Understand the best practices for coolers and condensers installation

Course length: 25:00 minutes



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MAIN MENU

MY GRADES

WHAT'S NEW?

KNOWLEDGE SOURCE GLOSSARY

Click topic for join
to Learning

FREQUENTLY ASKED QUESTIONS

阿姆斯壮大学

ARMSTRONG WEBSITE

LATEST NEWS

3:55 PM, Aug 14

Pam Blasius

New Courses Available on Armstrong University:

4:10 PM, May 19

Pam Blasius

Armstrong University courses can be accessed on an iPad, iPhone and Android device by downloading the Photon Flash Player App (\$).

11:32 AM, Feb 12

Pam Blasius

New Courses Available on Armstrong University:

11:14 AM, Apr 28

Pam Blasius

New Courses Available on Armstrong University:

Older topics ...



How to Learning online...?

HOME ► MY COURSES ► COLLEGE OF STEAM PRINCIPLES ► STEAM BASICS - M2124

NAVIGATION

HOME

MY HOME

► SITE PAGES

► MY PROFILE

▼ CURRENT COURSE

▼ STEAM BASICS - M2124

► PARTICIPANTS

► GENERAL

► STEAM BASICS

► CONGRATULATIONS! PRINT

YOUR STEAM BASICS

COURSE C...

► 蒸汽基础知识

► 祝贺您通过了本测验! 请打印您的“蒸汽基础知识”课程证书

► MY COURSES

Your progress ?

Steam Basics

In this course you will learn about:

- Steam and identify what steam is
- How the energy of steam is used
- Identifying the many properties of steam

Course length: 20:00 minutes

Click the course name below to begin...



Steam Basics

Click here to
content

Congratulations! Print your Steam Basics course certificate



How to Learning online...?

STEAM BASICS

In this course you will learn about:

- Steam and identify what steam is
- How the energy of steam is used
- Identifying the many properties of steam



After completing the course, click the word "Exit" in the upper right corner of the screen, and then choose "Exit now" from the drop down menu. Do NOT click the 'x' to close your browser window.

Number of attempts allowed: Unlimited
Number of attempts you have made: 0
Grading method: Last completed attempt
Grade reported: None

Contents

- Steam Basics
- ☐ Steam Basics

Click to Start

Enter



How to Learning online...?



Click to Start
VDO



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*Knowledge Not Shared is Energy Wasted.**



How to Learning online...?

The image displays a presentation interface for a course titled "Steam Basics". The interface is divided into several sections:

- Title Menu for Lesson:** A blue box with white text, pointed to by a cartoon character, indicating the main menu.
- Outline:** A list of topics, with "2. Navigating This Course" selected and expanded. The topics are:
 - 1. Welcome
 - 2. Navigating This Course (selected)
 - 3. Learning Objectives
 - 4. Glossary
 - 5. Steam Basics
 - 8. How the Energy of Steam is Used
 - 10. The Steam Loop
 - 13. Temperature and Heat
 - 18. Heat Transfer Methods
 - 23. The Properties of Steam
 - 33. Quiz Instructions
 - 34. Steam Basics Quiz
- Thumbnail:** A small image showing a cartoon character and a factory, with a red circle and the number 5 indicating the current slide.
- Navigation:** Buttons for "Next Slide", "Previous Slide", and "Search".
- Footer:** A status bar at the bottom showing "SLIDE 2 OF 35", "PLAYING", and a timer "00:10 / 01:30".

How to Learning online...?

Steam Basics (19:59 / 20:27) LINKS EXIT

Outline **Thumbnails** **Notes** **Search**

- 12. The Four Sections
- 13. Temperature and Heat
- 14. Temperature
- 15. Heat
- 16. Sensible Heat vs. Latent Heat
- 17. How Latent Heat is Stored
- 18. Heat Transfer Methods
- 19. Conduction
- 20. Convection
- 21. Radiation
- 22. Coming Together
- 23. The Properties of Steam
- 24. Absolute and Gauge Pressure
- 25. Pressure and Temperature
- 26. Gauge Pressure and Heat of the Saturated Liquid
- 27. Gauge Pressure and Latent Heat
- 28. Gauge Pressure and Total Heat of Steam
- 29. Gauge Pressure and Specific Volume of Saturated Liquid
- 30. Gauge Pressure and Specific Volume of Saturated Steam
- 31. How Steam Properties are Related
- 32. Instructions
- 33. Steam Basics Quiz
- 34. Wrap-up

Steam Basics Quiz Point Value: 10

Steam temperature is a direct function of _____ in a system.

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Knowledge. Not Just a Degree.™

☒ Heat

☐ Volume

☐ Pressure

Armstrong

Score so far: 0 points out of 0

SUBMIT

SLIDE 34 OF 35 PLAYING 00:00 / NOTES



Click

How to Learning online...?



Steam Basics Quiz

Steam Basics Quiz

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Knowledge. Skills. Ready. Work.

Your Score: 100% (100 points)

Passing Score: 80% (80 points)

Result:



Congratulations, you passed.

You can click the 'Review Quiz' button for a play-by-play recap of your results.



Review Quiz

Retry Quiz

Finish

Click Here to
FINISH



How to Learning online...?



[LINKS](#) | [EXIT](#)

[Click Here to EXIT](#)



Unleashing The Power Of Steam

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

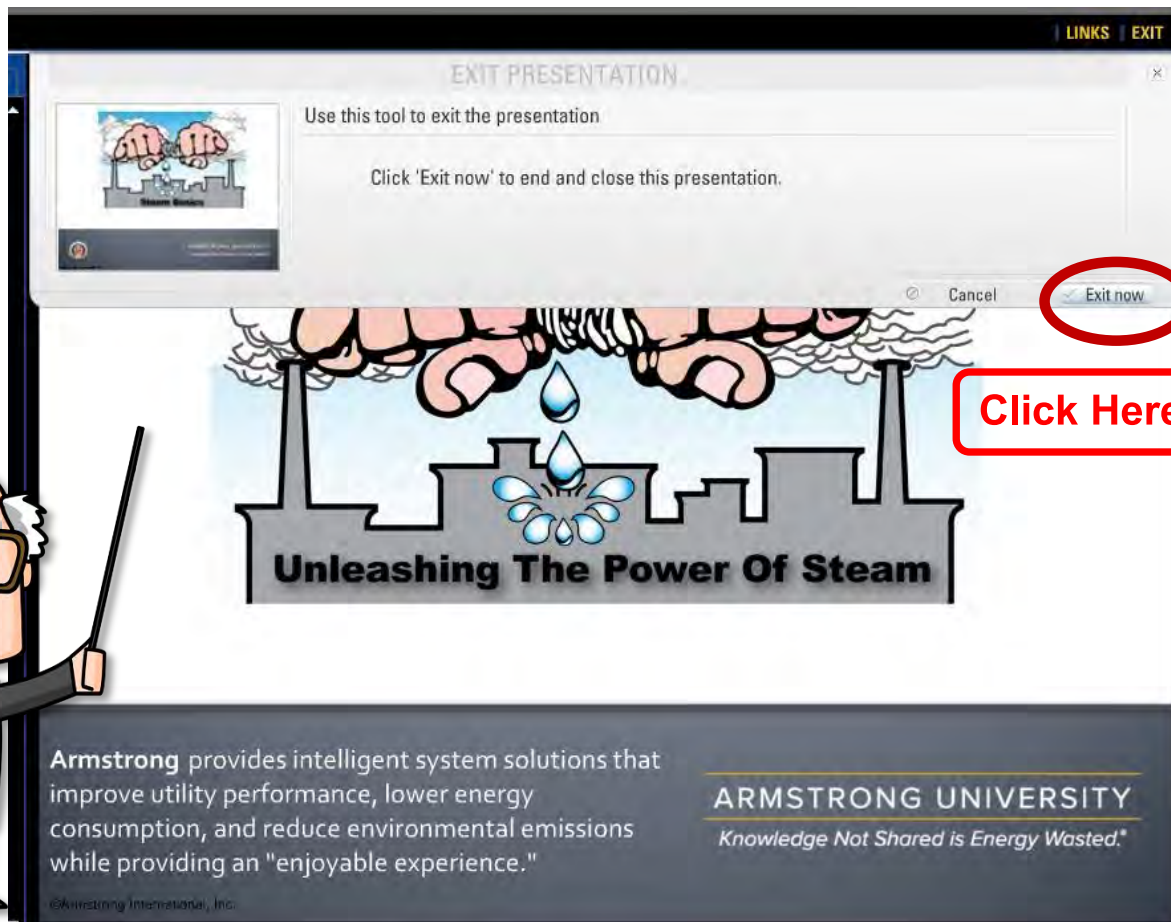
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How to Learning online...?



The screenshot shows a presentation window with a title bar containing 'LINKS' and 'EXIT'. An 'EXIT PRESENTATION' dialog box is open, displaying the text: 'Use this tool to exit the presentation' and 'Click 'Exit now' to end and close this presentation.' The dialog box has 'Cancel' and 'Exit now' buttons. A red circle highlights the 'Exit now' button, with a red arrow pointing to it from a red-bordered box containing the text 'Click Here to EXIT again'. The presentation content features a cartoon illustration of a hand squeezing a water droplet onto a factory, with the text 'Unleashing The Power Of Steam' below it. At the bottom of the presentation, there is a footer with the Armstrong logo and text: 'Armstrong provides intelligent system solutions that improve utility performance, lower energy consumption, and reduce environmental emissions while providing an "enjoyable experience."' and 'ARMSTRONG UNIVERSITY Knowledge Not Shared is Energy Wasted.*'.

LINKS EXIT

EXIT PRESENTATION

Use this tool to exit the presentation

Click 'Exit now' to end and close this presentation.

Cancel Exit now

Click Here to EXIT again

Unleashing The Power Of Steam

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

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Knowledge Not Shared is Energy Wasted.*

How to Learning online...?



Steam Basics

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- How the energy of steam is used
- Identifying the many properties of steam

Course length: 20:00 minutes

Click the course name below to begin...



Steam Basics



Let us know what you think of the "Steam Basics" course.

Congratulations! Print your Steam Basics course certificate

Upon successful completion of the course, your personalized certificate will be available for printing. A copy of the certificate in PDF form will be sent to you by email.

Click the link below to activate your certificate.



Steam Basics Certificate

Click Here to get your certificate

How to Learning online...?



Separate groups: Pacific Rim

SUMMARY OF PREVIOUSLY RECEIVED CERTIFICATES

Issued	Grade
Wednesday, July 13, 2016, 9:19 PM	Steam Basics Grade: 100.00 %

Click the button below and your certificate will be sent to you as an email attachment.



[Get your certificate](#)

This page are show your testing result



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This is to certify that

Ratanaporn Junlawateelert

has completed the course

Boiler Water Treatment Grade: 90.00 %

November 11, 2015

Pamela Blasius
Pamela Blasius
Director of Global Learning

**Your
Certify are
show on
website
and send
to your E-
Mail.**

Congrate!!!!!! Your Certify when you pass.