ENGINEERING TRAINER

SAVREE 3D INTERACTIVE MEDIA

Introduction to Steam, Boilers and Thermodynamics

This course can only be purchased as part of Industrial Equipment I bundle

- Self-paced
- 7 modules
- 3 hours
- English
- 1-yr access
- SPC704

Learn from home
100% online training

Video Lectures
watch multiple times

Available 24/7
1-year unlimited access

Receive Personal Certificate
to prove your knowledge

Course Objective

"To give professionals working with steam systems a strong fundamental understanding of the physical concepts and equipment involved with handling steam."

Program

Module 1	Introduction
Module 2	Combustion I
Module 3	Combustion II
Module 4	Steam Properties
Module 5	Boilers
Module 6	Final thoughts
Module 7	Bonus lectures

Results

After this course, you will be able to...

- Why we use steam instead of other energy fluids.
- The history of steam in engineering.
- Heat fundamentals (thermodynamics, latent heat, sensible heat etc.).
- Heat transfer (conduction, convection and radiation etc.).
- Combustion theory (efficiency, heat values etc.).
- Steam properties (wet, dry, saturated, enthalpy etc.).
- Boilers (designs, advantages, disadvantages etc.).

And much much more!

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Main Instructor

Jon Russell
Entrepreneur & Engineer, saVRee

Industrial Equipment, Static & Rotating

saVRee exists to help people learn about the fascinating world of engineering. Since opening the website in 2017, they have helped over 25,000 online students increase their engineering knowledge. They have also helped their clients train thousands of their own trainees and apprentices, particularly in the Power Generation, Oil and Gas, Automotive, and Electrical Engineering industries.

Course Summary

The industrial revolution may have been fired by coal, but it was powered by steam. Humans have been harnessing the power of steam for thousands of years, but it is only in the past 200 years that we have started to rely on it for countless engineering applications. This course looks at the origins of steam, its theory (**thermodynamics**), generation, and applications. You will learn:

- **Why we use steam instead of other energy fluids. The history of steam in engineering.**
- **Heat fundamentals (thermodynamics, latent heat, sensible heat etc.).**
- **Heat transfer (conduction, convection and radiation etc.).**
- **Combustion theory (efficiency, heat values etc.).**
- **Steam properties (wet, dry, saturated, enthalpy etc.). Boilers (designs, advantages, disadvantages etc.).**

Irrespective of your engineering background, learning about steam will **greatly** benefit your engineering career. Steam systems are used at almost every industrial facility, so you can apply 100% of what you have learned to the real world.

Who should attend this course

- This course is designed for industry professionals.
- This course is beneficial for anyone in the oil & gas, HVAC, chemical engineering, mechanical engineering, or power engineering industries.

Prerequisites

- An engineering background is beneficial, but is not mandatory.

Level Foundations