

Course Title	Design of Steam and Condensate Systems
Duration	4 days
Who is it for?	Designers, plant engineers, consultants and those responsible for the general layout of steam and condensate systems
What is it about?	This project based course provides specialist knowledge of current practices in steam and condensate systems and the factors to be considered in their design.

Course objectives	<ul style="list-style-type: none">• Understand the properties of steam and why it is used• Calculate the steam demand for different types of steam plant• Understand the requirements of steam distribution system• Understand the need for different steam traps and air vents• Understand the different methods of steam trap checking and their advantages and disadvantages• Explain the requirement to remove and recover condensate• Understand the need for pressure reduction and the different types available• Explain the factors affecting control valves• Realise the importance of flash steam recovery• Explain how safety valves are set, lift and leak• Size pressure reducing valves, steam pipe, condensate pipe, control valves, steam traps, condensate pumps, flash vessels, safety valves and blowdown vessel
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What is covered	<ul style="list-style-type: none">• Steam Fundamentals• Boiler sizing• Steam demand of plant• Steam distribution• Pressure control and safety valves• Steam trapping and air venting inc Steam trap checking• Condensate recovery• Boiler house sizing• Temperature controls
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Pre-requisites	A good technical knowledge is needed. Delegates will benefit by first taking the Steam Utilisation correspondence course.
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Outcome	Spirax Sarco Certificate of Attendance
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Format of course	Project based including practical boiler house tour and demonstrations Available as Remote Live Classroom option
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