

Thermostatic Mixing Valves

Duration 1 day

Target group Plumbers, maintenance staff, water hygiene technicians, managers (and others) involved in TMV design / installation / commissioning / in-service testing in commercial, residential and healthcare settings. The course is City & Guilds Assured and comes with certification, for those successful in assessment.

Prerequisites There are no prerequisites for this course.

Objective

- Scalding (Introduction & Risk / Skin / How to treat burns & scalds / Scalding statistics).
- Introduction to TMVs (What is a TMV / Background to TMVs / TMV Components / Types of TMVs / Build Quality).
- Legionella / Pseudomonas (Background / Infection / Susceptibility / Nutrients & Temperature).
- TMV Legal Documents (ACOP L8 / HSG274 Part 2 / Water Supply (Water Fittings) Regulations / Byelaws & Water Regs Guide / Building Regulations G3 / School Premise Regulations & Advice for Standards for Schools / BS8300-2:2018 / HSG220 / BEAMA Code of Practice / HTM04-01 & SHTM04-01 & WHTM04-01 / D 08).
- Design / Installation (Legionella requirements / Suitable materials / Mixed water temperatures / Point of use & Group Mixing / Extra measures for healthcare / more vulnerable persons).
- Commissioning / In-Service Testing (Commissioning process / In-Service testing process / Test records)
- Fault Finding (common causes / possible faults / actions).

Contents Contents

- State the difference between low and high-risk scalding situations and variables that influence the risk.
- Name the four levels of burns / scalds and state the difference.
- Explain some factors to consider when treating a burn / scald.
- Describe some scalding statistics.
- State the purpose / some background facts concerning TMVs / describe how they work.
- Name then identify the components of a TMV and state their function.
- Highlight differences between Type 1/2/3 TMVs and name the certification body most recognised in the industry.
- Name some of the different types of TMVs available.
- Describe some of the background/infection/susceptibility/conditions for growth, for legionella and pseudomonas bacteria.
- Name some relevant legal documents applicable to TMVs.
- Indicate some TMV design requirements (Including legionella and point of use / group mixing).
- Site some materials which should not be used for TMV installation.
- Indicate mixed water temperature requirements for any thermostatically controlled outlet.
- State some heightened TMV design / installation requirements for healthcare or more vulnerable persons.
- Demonstrate or describe the commissioning/in-service testing process.

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- Complete a test record sheet.
 - Name common faults associated with TMVs.
 - Correlate common faults to possible causes and actions to take.
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Exam

Single multiple choice question, open book assessment
Pass rate: 15/20 questions correct
Re-sit Question for those achieving 14/20 on the day