practical cooling water treatment

A practical two day course designed to explain all aspects of water treatment in relation to plant using Evaporative Cooling.

Who should attend? - All supervisors and plant operatives who are involved in the day to day operation of this kind of plant or anyone who requires a general appreciation of practical cooling water treatment.

Course Content

Session 1  Introduction to water treatment - The objectives of correct cooling water treatment are defined and the variations in raw water quality are explained.

Session 2  Water pretreatment - How the raw water characteristics can be changed by a range of pretreatment processes and why. (Base exchange softeners and Reverse Osmosis).

Session 3  Physical controls - This session concentrates on the importance of maintaining bleed control and its effect on the cooling water treatment programme. Economical and technical reasons for bleed control are stressed.

Session 4  Scale and sludge control - A background into how scale control can be achieved and the consequences of operating outside the specified control parameters.

Session 5  Corrosion control - How corrosion can be controlled and the consequences of operating outside the specified control parameters.

Session 6  Fouling Control - How fouling and biofouling can be controlled and the consequences of under or over dosing treatment chemicals.

Session 7  Monitoring and record keeping - What tests are normally required to achieve safe and efficient control and the importance of record keeping [reference will be made to Legionellosis Control] and the current guideline L8

Session 8  Safe chemical handling - The relevance of the COSHH Regulations in water treatment dosing is highlighted.

The sessions are supported by the use of PowerPoint slides and interactive discussions based on actual water testing to illustrate the theory.

Delegates are able to carry out specific tests and interpret their results.

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