**Laboratory Mathematics & Stoichiometry**

**Course Objectives:**

* Apply the rules of significant figures when performing calculations.
* Explain why rounding of answers to significant figure calculations must be done in a way which eliminates any bias.
* Identify the names, the symbols and quantitative value of the SI prefixes; Convert measurements within the SI system
* Know chemical reactions, equations and how to balance them
* Perform % concentration calculations.
* Perform molarity calculations, dilution calculations & normality calculations.
* Perform % acid assay calculations.
* Perform calculations involving hydrated species.
* Perform concentration calculations involving less common units.
* Recall acid/base terminology and calculate the pH (or pOH) of a strong acid (or base) given its concentration.
* Calculate the pH (or pOH) of a weak acid (or weak base) given its concentration and ionization constant.

**Course Outlines:**

* Apply the rules for rounding and significant figures; Use SI system of units; Perform chemical concentration conversions; Perform acid/base calculations.

**Who Should Attend?**

This is a general course designed for a wider audience of individuals who are or will be involved in all aspects of chemistry. This includes manufacturing, processing, operators, quality assurance and inspection and materials testing.

**Duration:** 5 Days

**For more information:**

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