









Training 2: Introduction to Statistics for Analytical Scientists

30.06.2022 (Thursday)

AGENDA

Time	Topics
11:00-13:30 GEO	Summarising data Populations and samples of data Distributions of data Summary statistics Mean, standard deviation, relative standard deviation, standard deviation of the mean Basic Excel functions Introduction to significance testing Uses of significance testing Types of significance test (t- and F-tests) Significance testing procedure Hypotheses, level of significance, number of tails, critical values, assessing significance Applications of statistics in quality assurance Construction and interpretation of control charts Interpreting results from proficiency testing schemes
13:30-14:15 GEO	Break
14:15-16:45 GEO	Applications of significance tests Different types of t-test and examples of their applications one-sample, two-sample and paired t-tests Use of the F-test for comparing variances Introduction to analysis of variance Examples of use in method validation Data analysis tools in Excel