

Advanced Training in Sampling, Sample Preparation and Quantification of Dioxins, furans and PCBs

Objectives

To train the analysts in testing laboratories, regulatory bodies, and other stakeholders on the state of the art methodologies of sampling, sample preparation, quantification and reporting of Dioxins, Furans and PCBs.

Topics to be Covered

- Dioxin Facts (Occurrence, history, Toxicology)
- Environmental and Human Exposure – Challenges
- Regulations (Environmental & Food)
- Sampling Strategies – Hands- on demonstration & training (Stack, Ambient air, Food & Feed)
- Sample preparation (Manual & Semi automated) - Hands- on demonstration & training)
- GC/MS/MS method parameter optimization for dioxins such as selectivity, MRM optimization, sensitivity, Retention time locking
- Method Validation as per EU regulations 644/2017 & Mandatory reporting

Job Opportunities

The periodic monitoring of Dioxins and Polychlorinated biphenyls are essential for industrial sectors such as municipal waste, hazardous waste and biomedical waste incinerators, metallurgical industries, common effluent treatment plants and so on in the environmental sector for source level reduction and elimination of POPs. In addition the monitoring of dioxins and PCBs in food and feed samples is essential for export market. Highly skilled trained analysts and technicians are required to carry out one of the most tedious analytical work. The trained analysts and technicians will be well equipped to carry out sampling, analysis and data interpretation. The training will provide better opportunity for them to get jobs in regulatory bodies like PCBs, FSSAI, EIC laboratories and in private testing laboratories.

Hence, the certification will impart advanced technical skill in the participants to excel in the field as it will cover hands on training in end to end process – sampling, analysis and data interpretation.

Eligibility

Analysts, Environmental Engineers, Environmental Scientists, Officials in Regulatory organizations, testing laboratories



CSIR Integrated Skill Initiative

Schedule

- Date of commencement- February 19, 2019
- Duration of the course- 3 Days
- No. of seats- 25
- Course Fee- Rs. 20000/-



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