



ONLINE TRAINING ON

"WATER AUDIT AND WASTEWATER MANAGEMENT IN INDUSTRIES"

COURSE DATE

14th September – 27th September, 2020

ONLINE COURSE DURATION

20 hours (10 hours per week)

LAST DATE TO APPLY

5th September, 2020

COURSE FEE: INR 3,500/- (Indian participants) / USD 100 (Global participants)

BACKGROUND

Increasing industrial production especially in water intensive industries (like thermal power plants, pulp & paper, textiles, fertilisers, etc.) is already putting pressure on the limited freshwater resources in India and worldwide. This coupled with increased water demand from other sectors like infrastructure development, agriculture, domestic, etc. is leading to major conflicts over water availability. Water sourcing and managing wastewater is becoming increasingly difficult & expensive and hence is an important aspect for sustainability for any industry. Industries which are heavily dependent on water for their production have to cut down on their production at times due to scarcity of water mainly during summer season. Such scenarios

have become more frequent in the recent years due to increasing water stress. Therefore, it is very critical that industries use water judiciously and reduce its water footprint as much as possible in order to be sustainable in future.

Water use optimisation, improving water accounting systems, identifying water losses and opportunities for water savings can serve as an effective approach for reducing water consumption. Also, efficient wastewater treatment technologies and recycling and reuse practices can further bring down consumption and effluent generation. Further, substantial costs which are associated with water & wastewater management like water sourcing, cost of pumping (energy), cost of water treatment

(chemicals), cost of effluent treatment & disposal, etc. can be effectively reduced through better water and wastewater management and through periodic conduction of water audits.

Understanding the relevance of the subject, Centre for Science and Environment (CSE) has developed a two week online course with the aim of providing a wider understanding on the above aspects of water audits, improving water use efficiency of industries and wastewater management, recycling and reuse.

The course will be conducted online through technological learning tools such as recorded presentations of experts, videos, online discussion with experts and reading material.

KEY LEARNINGS FROM THE PROGRAMME

- » Preparing water circuit diagram and water balance for better water accounting
- » Conducting water audit – scope, methodology and instrumentation
- » Improving performance of cooling towers for water use efficiency
- » Specific water consumption & benchmarking
- » Advanced water & wastewater treatment technologies
- » Effluent recycling and reuse practices - Industry specific case studies
- » Zero liquid discharge technologies for polluting industries
- » Industry specific case studies on opportunities identified for water savings through water audits
- » Cost benefit analysis of water saving schemes
- » Case studies/Exercises/Tests

COURSE LINK: <https://www.cseindia.org/online-training-on-water-and-wastewater-management-10275>

COURSE COORDINATOR

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