



## National Productivity Council

Presents e Learning on

### “Centrifugal Pumps – Operation, Maintenance Practices & Energy Conservation”



Pumps are an integral part of the industry and account for almost 40-50% of the total power consumption in many industries. Yet engineers, operators and maintenance technicians are seldom fully trained to handle the issues related to pumps they encounter daily. A good understanding of proper pump application, selection, operation, trouble shooting, maintenance and energy conservation are vital to the success of a company. On a conservative estimate, at least 15% - 25% energy can be saved in pumping systems.

This e learning would cover the following:

- The basics of working of centrifugal pumps & pumping systems
- Types of pumps
- Pumping system characteristics
- Assessment of performance of centrifugal pumps
- Maintenance of centrifugal pumps

- Energy efficiency opportunities in centrifugal pumps
- Affinity Laws
- Trouble shooting of centrifugal pumps

-----  
**Course Fee:**  
**Rs. 500/- (Inclusive of GST)**  
-----

**Contact Person:**  
**Shri. M. Natarajan,**  
Director, NPC  
[m.natarajan@npcindia.gov.in](mailto:m.natarajan@npcindia.gov.in)

*e – Certificate will be issued to participants*



**Dr. Ambedkar Institute Of Productivity,**  
National Productivity Council (NPC),  
6, Aavin Dairy Road, Ambattur Industrial Estate (North)  
Chennai - 600050