**TRAINING PROGRAM ON EXPLOITATION OF RENEWABLE ENERGY TECHNOLOGIES FOR INDUSTRIAL APPLICATIONS**



**National Productivity Council**

No. 6, Aavin Dairy Road, Ambattur Industrial Estate (North),

Ambattur, Chennai, India - 600 050

**SCOPE AND COVERAGE:**

The course would facilitate an invaluable forum for dialogue and open exchange of views and experiences with subject experts and professionals. The course content for the training has been carefully designed considering latest developments in renewable energy field such that, at the end of the course considerable useful knowledge transfer is perceived. The three-week course will address the following aspects:

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| **S.No** | **Module** | **Sub topics** | **Duration** |
| **1** | **Introduction to Renewable Energy**  | * Energy Scenario
* Energy Mix
* Conversion Technologies
* Conventional Power Plants
* Renewable Energy Sources
* Availability of Renewable Energy Sources
* Overview of RE technologies
* Policies Schemes and Legal Frameworks
 | **1 week** |
| **2** | **Wind & Solar Energy Technologies and Applications** | * Wind Resource Assessment
* Wind Turbine Technology
* Wind Turbine Components
* Design of Wind Turbine
* Installation & Commissioning of Wind Turbines
* O & M aspects of Wind Turbines
* Economic Analysis
 | **1 week** |
| **3** | **Other Renewable Energy Technologies & Field Visit** | * Biomass
* Bio Energy Technologies
* Hydro Technologies
* Geothermal Energy
* Tidal, Wave & OTEC
* Energy Storage
* Study tour
 | **1 week** |

**METHODOLGY:**

To achieve the objectives of training, different types of learning situations will have to be created/ organized. These are:-

* Class room lectures for imparting formal, theoretical and technical knowledge.
* Case studies/Group discussions.
* The training methodology so adopted creates step by step environment for all round development of skills and knowledge of the participants.
* Video vignettes and experiential learning exercises aiming at stimulating and creating interest among participants for enhanced learning experience.
* Study tour to Windfarm, Solar Power Plant and Biogas Power Plant