



DATAMATRIX

Energy & Water Management Skill Development & Training Program

The world is changing! Education is not changing at the rapid pace of either technology or the new business around us today. Much of the jobs we have today did not exist in the same form. The most in-demand occupations or specialties did not exist 10 or even five years ago. Several industries such as entertainment, communication, computing has already undergone dramatic change. Several other industries such as energy and transport are beginning to change and new industry segments such as Smart Cities are being created.

The fundamental human needs for water, energy and food need sustainable resource management with better understanding of their interdisciplinary relationships. The technologies will dramatically alter the skills required to manage the energy and water utilities, industries and agriculture in future. The Government, Industries and Academia are aware of this changing world, building several collaborative skill developments and training programs to develop the new skills. This training program shall ideally blend academic learning with skills using the latest technologies to meet the emerging needs of new job profiles. These changes will bring far greater efficiencies and sustainability in every aspect of human endeavor.

Datamatrix skill development and training program is designed to meet this tectonic shift in future job requirements for sustainable energy & water management. Datamatrix collaborates with some of the leading academic and research institutions for building the next generation technologies for sustainability. The energy, water and sustainability management in future would be more complex and technology driven.

Several industries such as GE are now transforming themselves into the digital era. Datamatrix technology for Plant Virtualization using IoT, big data and machine learning is beginning to transform industries into a new age knowledge driven enterprise, optimizing energy, and water and asset performance with improved productivity. Datamatrix, keeping in view of this changing need of the industry and job requirements has instituted this training program.

The admission for a one year training program for the first batch of 12 select students will be open in September 2017. They will be given a concise course blending theoretical studies for sustainable energy and water management with technology applications and practical training. A portion of the trained personnel may be absorbed by the company, depending on the vacancy. We will also run several concurrent short training courses, in association with leading institutions.

ENERGY & WATER MANAGEMENT STUDY

ENERGY

WATER



TECHNOLOGY

PRACTICE

ENERGY & WATER MANAGEMENT TRAINING

Integrated Training Program

The training program blends the academic learnings with professional skills, using latest technologies and tools to address a growing demand for sustainability. The course aims at developing technical and managerial skills required to identify and manage sustainable opportunities with a special focus on energy and water management of industries, agriculture and utilities.

It provides the tools to synthesize strategies and solutions to manage energy and water and environmental problems. The training will help to acquire the knowledge and skills for a managerial or technical career in the energy, water or environmental sectors. It will help to develop critical understanding of the complex environment and the ability to integrate various multi-disciplinary components in order to reach holistic solutions to problems of sustainable development.

In the process we create professionals capable of directly handling various job portfolios such as

- a) Energy & Water Sustainability Managers
- b) Utility Engineers
- c) Operation & Maintenance Engineers

The course is aligned with the nationally accepted certification program conducted by the Bureau of Energy Efficiency and popular training program on Water Management by leading institutions, serving the dual purpose getting certified by nationally acclaimed institutions while training and skill development.

The course duration will be one year with an average 40 Hours of training per week, comprising of 20% time on theoretical studies, 30% time on learning applied solutions using technology tools and 50% time will be devoted to practical problem solving through remote monitoring, analytics of online and offline Building, Plants and Utilities.

The students will be trained for continuous performance optimization using advanced plant virtualization solutions using IoT, Big Data analytics and dynamic performance modelling. The training program will cover Commercial Buildings, Industries, Utilities and Agriculture. The problem solving will also involve industry visits and interactions with customers.

The course will comprise of the following:

[A] Energy Management

1. General Aspects of Energy Management & Audit
2. Energy Efficiency in Utilities
3. Energy Performance Assessment in Equipment & Utilities
4. Integrated Performance Management

[B] Water Management

1. Aspects of Sustainable Water Management and its linkages
2. Management of Water Utilities
3. Industrial Water Management
4. Agricultural Water Management
5. Water Energy-Nexus Study

[C] Tools & Technologies for Energy & Water Management

1. Energy Management Systems
2. Water Management Systems
3. Performance Management & Optimization
4. Smart Grid & Smart Cities

[D] Practical Training with applied Technologies

1. Building Energy Management
2. Utility Performance Management
3. Industrial Energy Management
4. Agriculture Energy & Water Management

Who should apply: Engineering and science graduates in any discipline can apply.

Course Fee: To be decided

Course Duration: 12 Months.

Datamatrix will assist the students on placements

About Datamatrix

Datamatrix is a technology company focused on optimizing energy and water. Datamatrix made several technology innovations over the last decade for optimizing energy and water. The solutions are successfully applied to various Industries, Utilities, Agriculture & Commercial Buildings for energy conservation and performance optimization. Datamatrix is also involved in several research programs with leading academia such as Columbia University, Tel-Aviv University, IITs of India and several reputed National & International organizations such as NABARD, Central Institute of Fisheries Technology, Climate Works Foundation, etc. Datamatrix aims at bridging the large gap of tools and skills required for sustainability of industries in the emerging digital world.

DATAMATRIX INFOTECH PVT.LTD.

International Training & Recruitment Centre, Infopark, Chertala.