

## RENEWABLE ENERGIES EOLIC Training Course

TR1616/IO2/002

### APPLICATION FIELD - TARGET GROUP

Study of general knowledge of energy sustainability and renewable energy sources.  
Introduction to General Wind Energy and study of components, devices, systems characteristics, management and maintenance.  
Simulation and exercising in laboratory of various systems with training units utilization

This training module is devoted to improve the basic knowledge of field technical persons with refreshing of the know-how and verification of learning results.

### TOPICS

Introduction to Energy sustainability - Renewable energy sources  
General Wind Energy - historic uses - modern devices  
Characteristics of wind power - speed and physical parameters- wind data bases-  
Study of wind turbines devices, components, working characteristics and control, connections and systems- Stand Alone and grid connected systems.  
Maintenance of wind turbines systems  
Simulation and exercising of various systems with training units utilization

### SKILLS

Basic knowledge of Eolic Energy technology for civil applications including first intervention maintenance of systems and devices.

### DURATION

**40 hours**

### SESSION OF COURSE

Classroom: Intro & General: 1 sessions of 4 hrs each  
Wind turbines: 4 sessions of 4 hrs each  
Training Units: 4 sessions of 4 hrs each

### ENTRY REQUIREMENTS FOR PARTICIPANTS

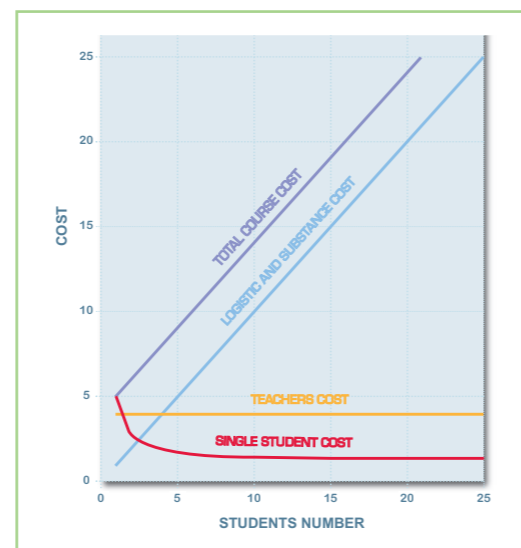
Vocational schools or high schools diploma of electrical or mechanical science. Null or short employment experience.

### MAXIMUM NUMBER OF STUDENTS PARTICIPATION

As you may see from the diagram, the costs of the course have their best efficiency with a number of participants ranging from 10 up to 25 units.

It is consequently suggestible to perform a teaching course with a minimum of 8 students up to a maximum of 25.

*The diagram on the side is only indicative*



### LABORATORIES / TOOLINGS / INDIVIDUAL EQUIPMENTS



Educational and training equipment for Renewable Eolic Energies



Set of instruments and tools



### TEACHING & LEARNING MATERIALS / ASSESTMENTS METHODS / CERTIFICATES



- Theory manuals,
- Workbooks,
- Users manuals.
- Schematics presentations and tables.



Evaluation questionnaire at the end of the course



Certificate of attendance at the end of course



### RECEPTION PACKAGE

#### WELCOMING SERVICES FEES:

- Visa issuing, consular expenses for entrance to Italy and residence permit (issued by Ministry of Interior Affairs) for study purposes
- Flight ticket to Italy and return

#### BOARDING AND ACCOMMODATION SERVICES

- Reception at the organized lodging facilities hotel
- Board including: breakfast, lunch and dinner, drinks included

#### TRAINING COURSE ANCILLARIES SERVICES:

- Laundry service
- Daytime service of fixed telephone through operator at Prodit premises
- Mobile prepaid telephone service - 50 Euro/month for each student
- Shuttle service from hotel to Prodit Engineering training center and return;
- Service of initial care for illness or injuries, available during the course time;
- Individual ordinary life and accident insurance, and national health service

### TRAINING COURSE PACKAGE

#### DIDACTIC ACTIVITIES for 5 (five) days per week, as follows:

- Theoretical activities performed in classroom
- Practical activities performed in workshops and laboratories, equipped with didactic equipment
- Individual endowment for the student made up of text books, stationery and backpack
- Periodical tests for assessing student's learning
- Final examination
- Attendance Certificate (issued on the basic requirement of a minimum percentage of participation hours, equal to the 95% of the whole duration of the course)



### COURSE LOCATION

These courses will be held at PRODIT ENGINEERING training center in Italy.