

RENEWABLE ENERGIES SOLAR Training Course

TR1616/IO2/001

APPLICATION FIELD - TARGET GROUP

Study of general knowledge of energy sustainability and renewable energy sources.
Introduction to General Solar Energy as thermal and photovoltaic components, devices, systems characteristics, management and control, 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 Solar energy - historic uses - thermal - PhotoVoltaic - hybrid
Characteristics of solar irradiation with data base and calculation
Study of PhotoVoltaic devices, connections and systems - Stand alone PV - Grid connected PV
Maintenance of PV systems.
Study of solar Thermal energy - Devices and systems - Electrical generation - Stand Alone Systems- Grid connected systems.
Simulation and exercising of various systems with training units utilization

SKILLS

Basic knowledge of Solar Energy technology for Photovoltaic and Thermal applications including first intervention maintenance of systems and devices.

DURATION

48 hours

SESSION OF COURSE

Classroom: Intro & General: 2 sessions of 4 hrs each
PV: 4 sessions of 4 hrs each
Thermal : 2 sessions of 4 hrs each
Training: 4 sessions of 4 hrs each

ENTRY REQUIREMENTS FOR PARTICIPANTS

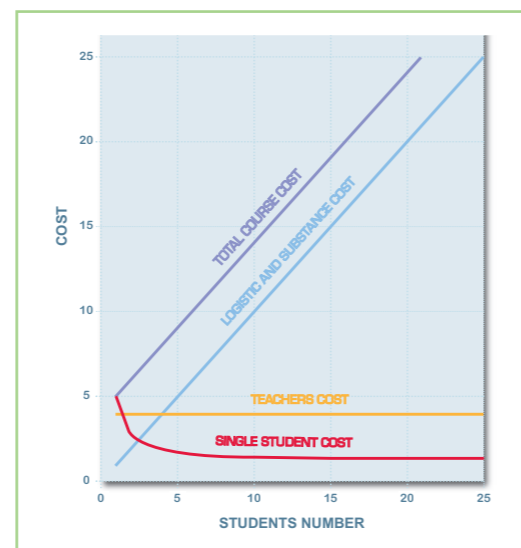
Vocational schools or high schools diploma of electrical or mechanical science. Null or short employment experience.

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



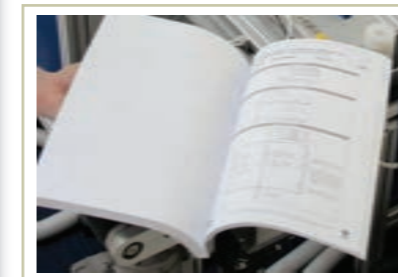
Educational and training equipment for Renewable Solar Energies



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.