

GENERAL MECHANICS Training Course

TR1609/102/001

APPLICATION FIELD - TARGET GROUP

Study of basic engineering mechanics, machine elements and mechatronics with extension to the maintenance and machinery diagnostics. Practical laboratory exercising using various devices and machines. Is provided.

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

Study of Engineering mechanics and machine elements:
Statics and Dynamics introduction to forces, trusses, torques, simple machines, friction, gear units and vibrations.
Strength of Materials to study forces in components under load, allowing calculation of tension and production of failure hypotheses. Properties of materials examination and test.
Engineering Design basic knowledge including equipment relating to machine components friction, threads, hydro-dynamic lubrication, tribology, drive components, gears.
Mechatronics study: engineering drawings, metrology, manufacture engineering, assembly Maintenance and Machinery Diagnostics.
Cutaway models of mechanical devices are also available for examination and disassembly/assembly study.
Laboratory exercising on various mechanical devices, cutaway examination, assemblies.

SKILLS

Professional knowledge of mechanical concepts, components, parts and assembly applications. Familiarity with mechanical drawings of assembly and components.

DURATION

60 hours

SESSION OF COURSE

Classroom: 10 session of 4 hours each
 Laboratory: 5 session of 4 hours each

ENTRY REQUIREMENTS FOR PARTICIPANTS

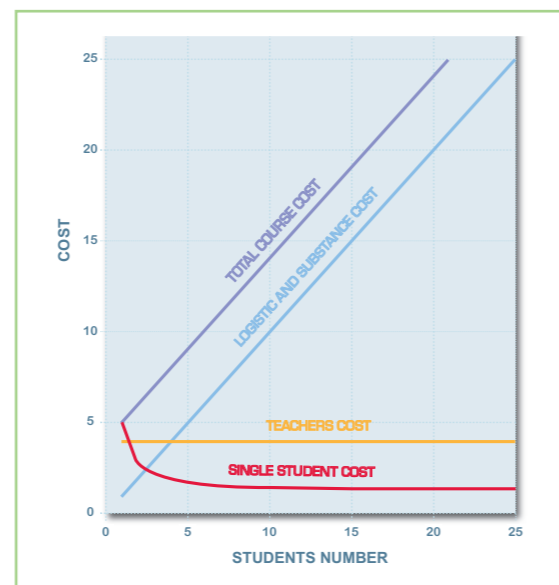
Vocational schools or high schools diploma of mechanical science. Null or short employment experience.

MAXIMUM NUMBER OF STUDENTS PARTICIPATION

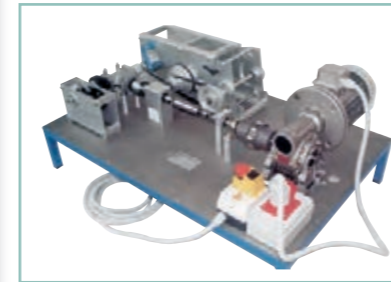
As you may see from the diagram, the costs of the course have their best efficiency with a number of participants ranging from 10 up to 25 units.

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



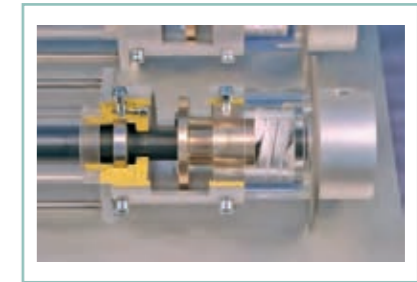
LABORATORIES / TOOLINGS / INDIVIDUAL EQUIPMENTS



Educational and training equipment for general mechanics
 Mechanical maintenance training bench



Full-scale cutaways for training purposes for general mechanics



Design and understanding technology for general mechanics

Static and dynamics mechanical seals for mechanics training



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.