Focus on Training courses
Service Division
Introduction

The Company
TM.P. S.p.A. – Termomeccanica Pompe, a pump designer whose history dates back as far as 1912, ranks today amongst the leading manufacturer and service providers of engineered pumps and compressors solutions for the power generation, water-handling, desalination, oil & gas and industrial sectors. The entire company revolves around developing and providing innovative solutions tailored to customers and end-users projects requirements, whether they be related to products or after-sales services.

Service Division mission
The mission of Termomeccanica Pompe’s Service Division is to offer a complete portfolio of services for rotating machines and their components, covering any need that may arise during a plants’ entire life cycle.

Service activities
With its Service activities, Termomeccanica Pompe aims at ensuring high-quality maintenance at lower cost, improve machinery performance and save energy, thus reducing total plant operating costs.

TMP’s Service activities portfolio related to rotating machinery includes:
- Supply of spare parts
- Reverse engineering
- Maintenance & overhauling
- Upgrading
- Life extension
- Replacement/ retrofit (including conversion of mechanical seal pumps to magnetic drive pumps)
- Energy saving
- LTSA & technical assistance
- Remote monitoring (Cyclops®)
- Training
- Global Service
- Services specific to turbomachinery
Termomeccanica Pompe
Your engineered pumps partner
Yesterday, today and tomorrow...
Service Division
Focus on Training Courses

Generalities
Termomeccanica Pompe’s Service Division’s all-encompassing portfolio includes a complete set of technical training courses.
TMP’s Service Division has actually a dedicated team in charge of creating & organizing training courses mixing both theoretical & operational contents, but with a strong emphasis on the practical information of actual relevance to the operators, maintenance personnel, technicians and engineers operating pumps, compressors and other rotating systems supplied (or serviced) by the company.

Training options are systematically proposed at every new contract signing but can also be arranged at a later stage.

Customization is the key word: TMP’s training courses are based on modules that can be easily tailored/ modified to customers & end users needs.
TMP’s Service Division is flexible and can organize:
- in-person training courses at its HQ training center or at customers facilities (incl. off shore platforms);
- remote training courses, particularly convenient in times of emergency limiting traveling.

Objective – Opex reduction
Through its training courses, TMP puts its centennial know-how at customers’ disposal so they can develop a deeper understanding of the machinery & systems supplied, subsequently improving maintenance activities and minimizing life cycle operating costs.
In other words, with the help of our training programs, customers can:
- Improve systems availability
- Update and develop personnel skills
- Increase overall plant reliability.

Flexible modular structure
TMP’s training courses are modular in structure, which allows to easily organize content/ program according to customers’ specific needs.

Tailor-made solutions
TMP’s training team is available to discuss and define customized training solutions through
- standard modules modification
- on-the job practical sessions
Contact us for any specific requests you may have.
Training Courses
Focus on Syllabus

The training courses’ syllabus is divided into two main sections:
- A technical / theoretical program
- An operations & maintenance program

Technical Program
TMP’s technical modules focus on theoretical hydraulics and pumps design knowledge.
They are intended for designers, engineers & sales engineers that need to expand their skills related to pumps and pumping systems. The modules’ objective is to introduce the basics of pumping system theory and to explain the characteristics, components, operations and controls of centrifugal pumps in order to proceed to optimal pump & systems selection.

List of modules available:
1. General theory modules
   - Theory basic
   - Theory Complete
2. Specific modules
   - Pump controls
   - Pump dynamics & vibrations
   - Renewing old pumping systems: from redesign to reverse engineering
   - Pumping system design
   - Pump material selection and corrosion

Maintenance & Operations Program
TMP’s Maintenance & Operations modules focus on increasing total plant efficiency, reducing maintenance & operational costs.

The modules are designed for plant engineers, mechanics and technicians that need to strengthen their knowledge on the installation of centrifugal pumps and their understanding of the related hydraulics connections.

The modules’ objective is to describe pumps & auxiliaries and introduce operations & maintenance concepts in order to maximize plant conditions with the installed machines.

The modules are customized according to pump group configurations relevant to customers but can be modified to generate a general overview of all TMP’s centrifugal pump types.

List of modules available:
1. Description modules
   - Pump & components description - General
   - Pump families description
   - Mechanical seals, coupling & bearings description
2. Operations modules
   - Pump controls and operation
   - Pump operation and troubleshooting
3. Maintenance modules
   - Pumps general maintenance & maintenance philosophies
   - Pump family maintenance operations - preventive maintenance
   - Pump family maintenance operations - predictive maintenance & dynamic analysis

TMP’s maintenance courses can be performed in a classroom or/and on-the-job, using specific components and applications on the machines relevant to the trainees.