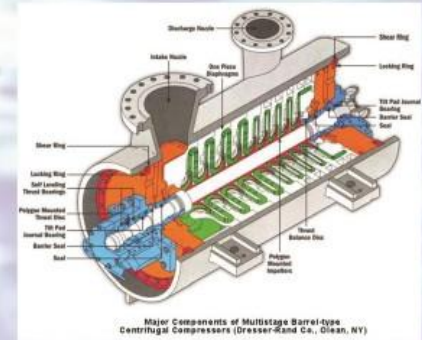
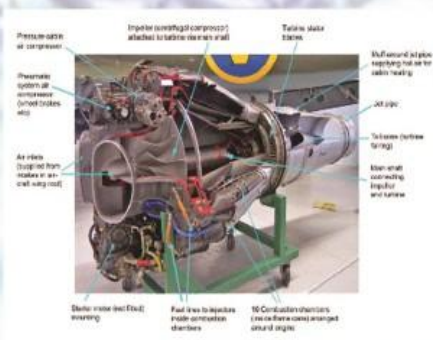


Centrifugal Compressors Theory and Application for Petrochemical

Under the supervision of
Prof. Dr. Magdy Abu Rayan



The course period: 5 days 40 hours
Course contents (Materials theory and practical training)



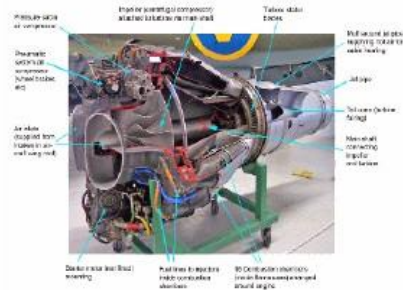
Centrifugal Compressor course

**Under the supervision of
Prof. Dr. Magdy M. Abou Rayan**

Prof. Dr. Nabil Hassan

First session: Mansoura, Egypt

Second session: Sharm El-sheikh, Egypt



The topics include information about Centrifugal compressors theory and application, starting with basic concepts of Centrifugal compressor and general idea about positive displacement compressors.

The courses will describe the different aspects of compressors applications in petrochemical industry, as refineries, gas compression, liquefactions plants and fertilizers plants.

The basic roles of selection and installation.



The surge phenomenon will be presented, and the ways to prevent Surge will be described.

The presentation of the different parts of compressors and the mounting and dismantle of bearings, seals, and coupling will be explained.

An over view of critical speeds, vibrations, particularly vibration measurement and analysis. An approach to the use of API standards 617

Finally at the end a workshop on compressors troubleshooting will be conducted.

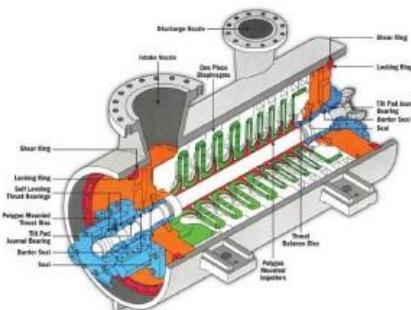


Figure 1. Major Components of Multistage Barrel-Type Centrifugal Compressor (Dresser-Rand Co., Glen, NY)

The objectives of the courses are to provide a theoretical basis and practical information on compressors selection and operation with emphasis on the economical side of selection and operation.

➤ Who should attend:

- 1- Mechanical and chemical engineers starting their career in petrochemical industry.
- 2. Mechanical engineers involved in compressors operation.
- 3. Engineers involved in compressors maintenance

Venues:

Mansoura University

Faculty of Engineering

Mansoura, Egypt

Tel/fax: +20 502202464



**Sham El-sheikh, Sporting
Club, Sham El-Sheikh, Egypt**

Tel/fax: +20 69 3660450