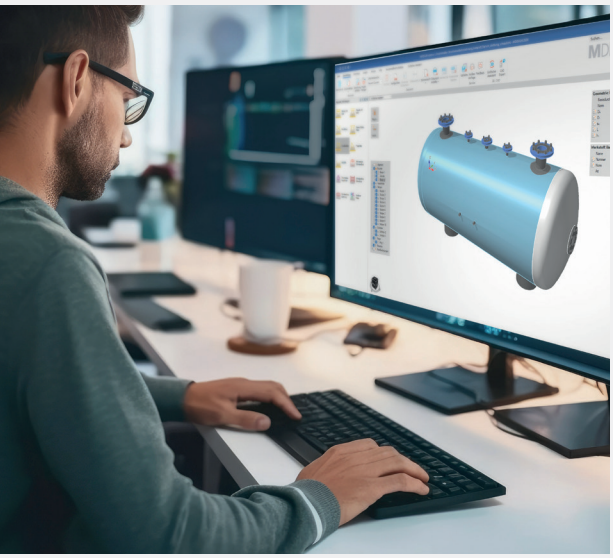
MDESIGN

MDESIGN Seminar

STRENGTH DESIGN OF PRESSURE VESSELS

These topics await you...

- → Introduction & special features of device types
- → Life cycle & design of pressure vessels
- → Guidelines, standards & Co. as a basis for appliances
- → The practical implementation of the PED 2014/68/EU



PRESSURE VESSEL

Objectives of the seminar

Understanding the differences
Norms, standards and guidelines for pressure vessels and apparatus

Cost efficiency
Material and cost savings through optimized designs

Increased security
Increased security in conjunction with optimizations

Practical examples
Evaluating & processing complex and new tasks

KNOWLEDGE UPDATE

Use your advantages

- ✓ **Personal certificate**
  Documentation of your newly acquired knowledge after attending the seminar
- ✓ **Good integration into everyday working life**
  Compact seminar content spread over 2 days
- ✓ **Flexible choice of dates**
  Several seminar dates per year
- ✓ **Online & Live**
  Seminars from anywhere and ask our experts questions interactively
- ✓ **Seminar documents**
  We also provide you with all the relevant information for „afterwards“ for reference

Target group

Engineers and specialists from the fields of development, design and calculation, teachers from educational institutions, experts from research institutions and testing companies.

PRESSURE VESSEL

Content & Details

Calculations: Basics of strength calculation

- Basic process engineering operations and equipment
- Elements of apparatus engineering
- Stresses on a hollow cylinder
- Basic strength condition
- Loads
- Material characteristics
- Types of failure

Safety: The strength design in connection with the life cycle of apparatus

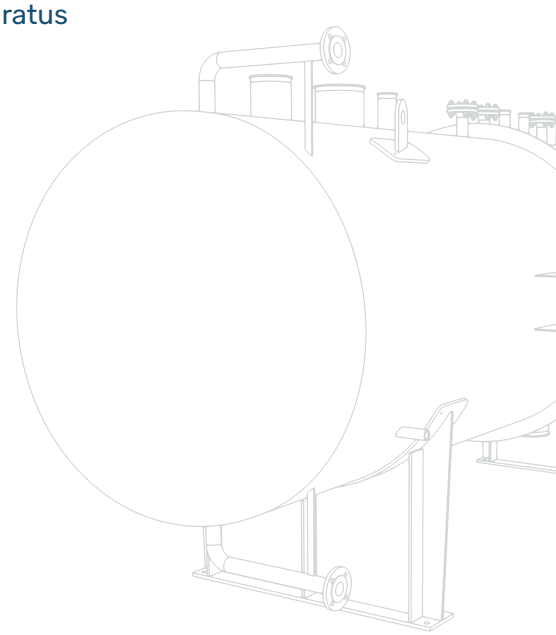
- The life cycle of process engineering equipment
- Key contents of the individual phases
- Influence of the life cycle on the design

Standards: The European Pressure Equipment Directive & basis for the placing on the market and operation of apparatus

- Difference between norms/standards and directives/laws
- Placing on the market and operation of appliances
- Norms, guidelines and standards in apparatus engineering
- Scope of application
- Definitions
- Safety requirements
- Selection of conformity assessment procedures
- Overview of the module

Practice: Design of selected elements using the example of the AD2000 regulations

- Introduction and overview
- Calculation of cylinders and spherical shells
- Calculation of curved floors
- Cut-outs in devices



More info on
mdesign.de