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Fluid System Components in Oxygen Systems

Safe selection and calculation of components for oxygen systems

Training Contents:

Description
Oxygen systems are among the systems that pose a significant potential danger. According to the fire triangle, oxygen, fuel, and an ignition source are required for a combustion process to occur. Systems with an oxygen concentration of 23.5% or higher are referred to as oxygen systems. In general, the danger posed by an oxygen system increases with rising oxygen concentration, temperature, flow velocity, and increasing pressure. The seminar "Fluid System Components in Oxygen Systems" covers important topics such as material selection and cleaning, as well as the selection and calculation of components for oxygen systems. **Objectives and Benefits** This seminar covers various topics, including: • How to execute tube bendings in oxygen systems? • Have impact zones for particles been avoided? • How should components for oxygen systems be cleaned and packed? • What residual hydrocarbon content is permissible in oxygen systems? • Which materials are permissible for oxygen systems? • How can ignition occur in oxygen systems? • What flow velocity must not be exceeded? • Which sealing materials are allowed? • How to calculate valves and pressure regulators for oxygen systems? • According to which criteria are components selected for oxygen systems? • How to evaluate "Technically permanently leak tight" according to TRGS? **Target Audience:** Laboratory workers, technicians, installers, plant managers, engineers, maintenance personnel, designers, and plant planners.