



Management Service

# **"Chemical Leasing and Cleaner Production"**

**Quality assurance and Certification  
of Chemical Leasing business models**

**Peter Schaff  
TÜV SÜD**

**Dubai, February 6<sup>th</sup>, 2006**



Management Service

# **"Chemical Leasing and Cleaner Production"**

## **..... a world wide challenge !**

# TÜV SÜD – A WORLD WIDE PARTNER



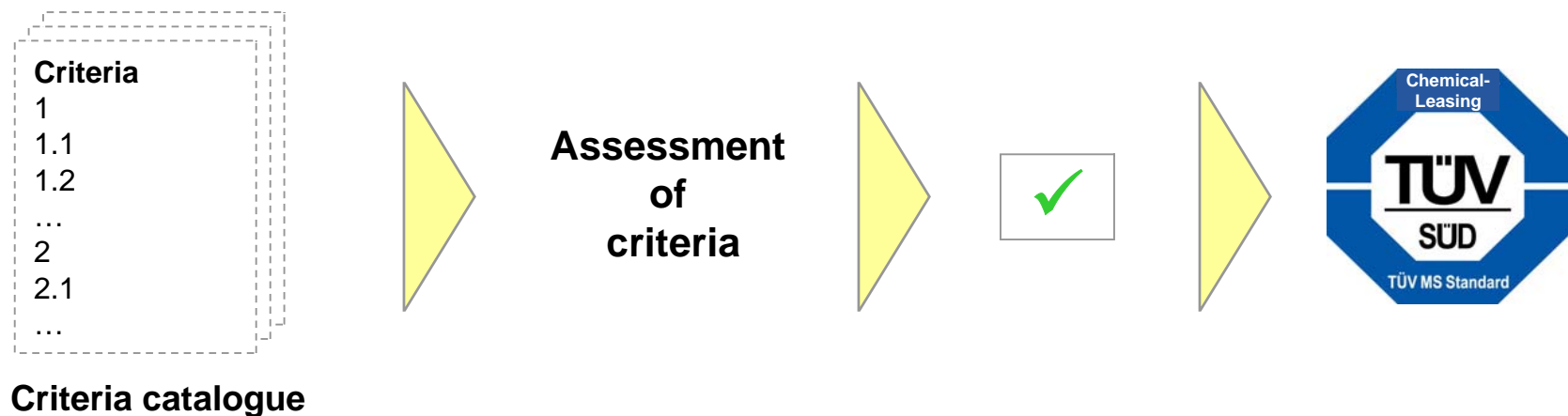


**“Chemical Leasing is a service orientated business model.**

**The interest of all participants is to reduce the amount of chemicals used while improving the efficiency of the participating companies as well as taking into account technical and ecological quality criteria.”**

## Certification Process

- A certificate is issued following assessment by a third-party organization
- Ecological benefits must be given
- Responsibilities (risk management) must be clearly defined
- National and international standards should be used as far as available and suitable





## Certified Chemical Leasing

### Quality Management (QM)

A functioning, certified quality management system establishes the basis for an effective and efficient partnership within the scope of certified chemical leasing

### Environmental Management (EM)

Securing the ecological objectives of chemical leasing in a sustainable manner through the prevention or reduction of environmental pollution

### Occupational Health and Safety (OHS)

Occupational health and safety as a means of ensuring the long-term success of certified chemical leasing

### Specifics of the Chemicals Industry

Identification, assessment and auditing of product and process requirements with respect to the state of the art and a continuous improvement process (CIP)

**→ Suitable and specific bundling of management systems for added value**

# Chemical Leasing and Cleaner Production



Management Service

**a practical standard with ISO elements,  
but suitable for the application!**

Chemical Suppliers – Chemical Users



- QM (e.g. ISO 9001)
- EM (e.g. ISO 14001)
- OHS ( e.g. ILO, OHSAS, SCC) ✓
- Product specifications
- Material safety data sheets
- Standard operating procedures (SOPs) for the handling of chemicals
- Safe transport (dangerous goods management)

- Employee training ✓
- Workplace environment ✓
- Preventive action
- Emergency preparedness and response
- Validation of product requirements
- Environmental aspects
- Statutory and other requirements
- Monitoring and measuring

# Chemical Leasing and Cleaner Production



Management Service

## Chemical Suppliers – Equipment Suppliers

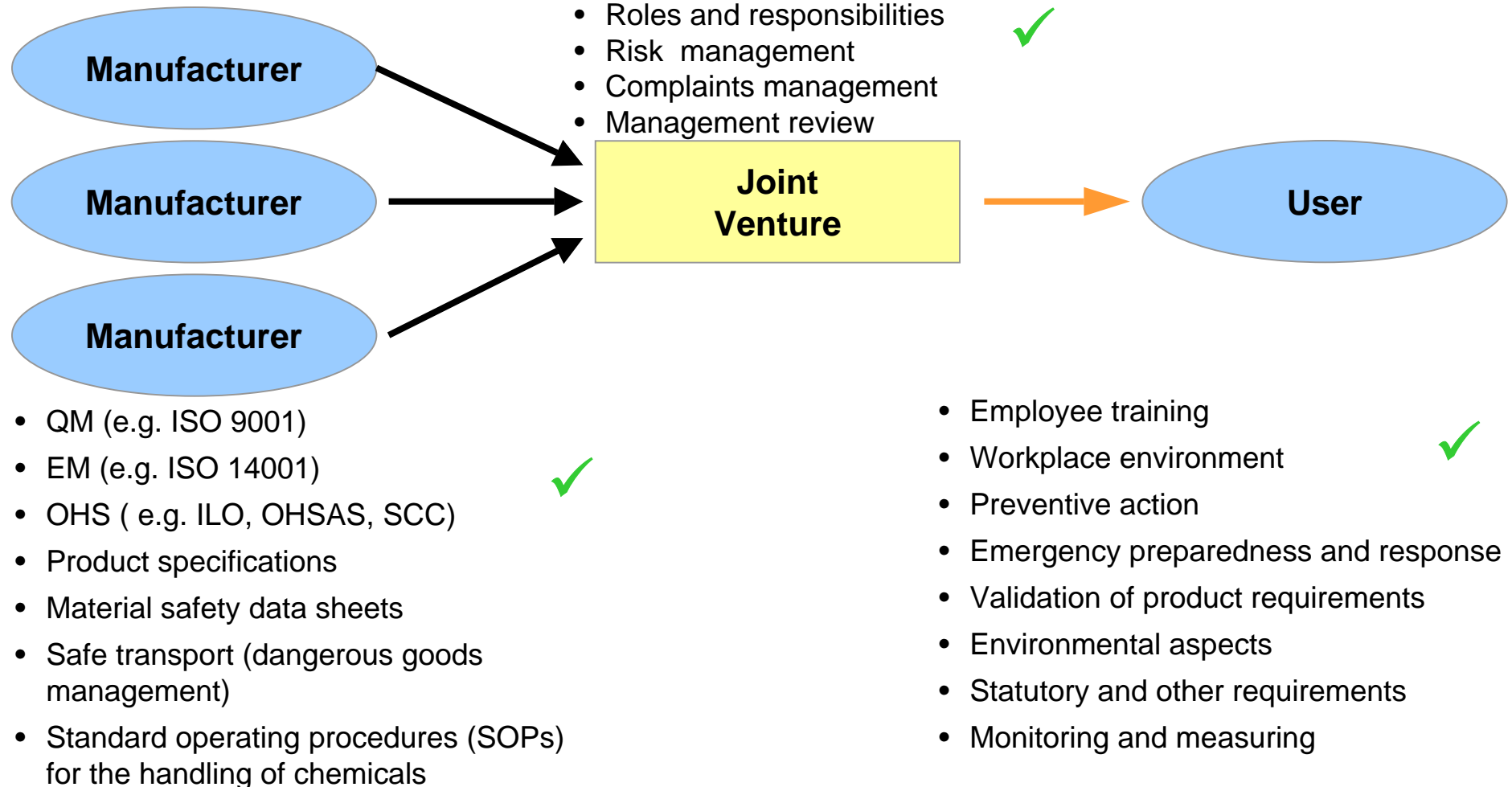


# Chemical Leasing and Cleaner Production



Management Service

## Equipment Suppliers – Chemical Users





## Minimum requirements:

- ✓ **Compliance with the requirements defined by the state of the art chemical leasing specifications**
- ✓ **Guarantee of safe and ecological operation**
- ✓ **Fair consideration of the interests of all partners**  
→ chosen certainty

## Quality assurance ensures:

- ✓ **observance of ecological standards and applicable limits as minimum requirements**
- ✓ **availability of a suitable risk management**
- ✓ **an effective, lived and breathed continuous improvement process (CIP)**  
→ added value

**→ Optimum satisfaction of the needs of all partners**



---

**Choose certainty.  
Add value.**

**Thank you very much  
for your kind attention !**

**Contact details:**

TÜV SÜD Management Service GmbH

TÜV SÜD Group

Prof. Dr. Peter Schaff

Ridlerstraße 65

80339 Munich

GERMANY

Tel: +49 (89) – 5791 – 4290

eMail: [Peter.Schaff@tuev-sued.de](mailto:Peter.Schaff@tuev-sued.de)