

Everything from one supplier: maintenance from the manufacturer

Service & maintenance



DENIOS.

Maintenance contracts

Comprehensive and worry-free, thanks to DENIOS - Our service ensures your safety

We see ourselves as your partner, providing a comprehensive and worry-free service. And we take this seriously: just assign responsibility to us and we'll take care of the rest. For example we'll remind you when regular maintenance is due and make sure it's carried out. This leaves you free to concentrate on your business. What else could we do for you? Let us tell you more. Our specialists are ready to help with advice and much more. You can rely on DENIOS as your trustworthy, competent partner.





We're certified!

SCC training | Hazmat representative in accordance with TRGS 201, 526, 510 and 800 | Electrical specialist | Fire protection officer (TÜV) | Specialist in accordance with BetrSichV, BGG and DIN EN 15635 | Measurement and test technician in accordance with DGUV and VDE



Maintenance with DENIOS: Your benefits!

There's more than one reason to choose service and maintenance direct from the manufacturer.



Save yourself expensive repairs with regular servicing



Minimise the risk of downtime and extend the life of your products



You'll never miss an appointment again! We'll plan the annual safety inspections for you.



Extra protection: we'll extend your warranty to 5 years



You'll save on travel costs - our technicians always carry materials for minor repairs

Every product taken care of

When our technicians come to your site, every important detail is taken into consideration. The process may vary, depending on the product to be inspected. We pay particular attention to:

- Inspection of general condition
- Visual inspection for damage and defects
- Inspection of spill pallets for damage
- Functional inspection of mechanical parts and doors
- If applicable check fire recognition
- If applicable check heating system
- Production of test report

Is the legally required air exchange rate still ensured? Do the fire protection flaps operate correctly? Are the sensors supplying all the necessary data? Only when all the safety-relevant components have been extensively tested will we assign the proverbial tick.

Minimise your risk!

Regular inspections are best

With a DENIOS product, you can rest assured that you are safe. Right from the design and production stages all laws, standards and required certifications are taken into account.

There's a simple way to make sure that you and your employees remain safe in the long term and to reduce the risk of an accident causing personal injury or damage to property: regular maintenance! Equipment and tools for the storage and transport of hazardous materials are complex. In addition to design-based tests, the technical components also need to be regularly inspected. These might include:

- Technical ventilation
- Door hold-open systems

DENIOS

- Fire protection equipment
- Electrical components
- SensorsHeating
- Climate control equipment
- Lighting

The functionality of each component can have an important effect on the construction as a whole.

Membership pays!

Regular long term maintenance ensures your investment keeps working. When you sign up to a service contract you'll also benefit from an extension to the **DENIOS** warranty to 5 years. You'll also receive a SpillGuard free of charge.*

You'll also receive the revolution in hazmat leak detection, free of charge. **DENIOS SpillGuard** is the first leak sensor of its kind: fully autonomous, ready to use and can be fitted to any type of spill pallet. Leaked hazardous liquids in the spill pallet are reliably detected and notified, before large scale damage can occur - and you gain valuable time for cleaning up. Installation is easier than ever: simply switch on, put into position and you're safe!* Get your Carefree Card today and apply for your **DENIOS Premium** Service Card.

 * Applies if a service contract is taken out within the first year after delivery.

> Get one now & start saving!

"Many a DENIOS product has given over 25 years of reliable service for our customers. Thanks to regular inspections!"

BetrSichV § 14

German industrial safety regulation

(1) **The employer must ensure that**, where safety depends on assembly, work equipment is tested.

- after assembly
- and before commissioning
- as well as after any assembly (...) at a new location.

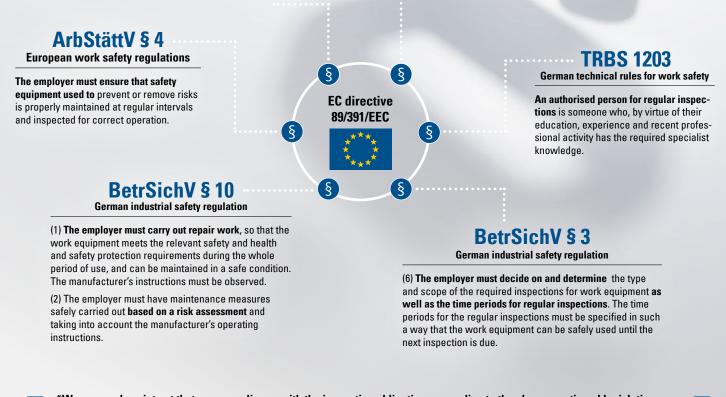
(3) The employer must ensure that work equipment is tested by an authorised person to ensure safe operation after repair work which could affect the safety of the work equipment.

(5) The due date for regular inspections must be given as the month and year. The period to the next regular inspection begins when the last inspection is due. If an inspection is carried out before the due date, the period to the next inspection begins from the month and year when the inspection was carried out.

TRGS 526 German technical rules for hazardous substances

& WORK SAFETY

The hazardous substances regulations require the employer to regularly check the operation and effectiveness of technical protective measures. **Test institutes require** room systems for hazardous substances and hazardous materials cabinets **to be inspected annually in accordance with the manufacturer's instructions**. The operation of built-in technical ventilation must also be inspected annually as a minimum by an authorised person.



*We expressly point out that non-compliance with the inspection obligations according to the above-mentioned legislation automatically leads to a deviation in an audit or equipment inspection. Missing regular inspection reports will lead to major issues with insurers in the event of damage.

Please note that depending on product type, additional inspections may be prescribed and need to be carried out by the operator! Test institutes specifically advise that an annual inspection of spill pallets, ventilation equipment, fire barriers etc should be carried out annually by the operator. Also take note of the relevant sections in your DIBt General Technical Approval.

The new generation of hazmat storage:













Manuals & Documents



My Services



The operation and maintenance of a hazmat store is subject to comprehensive legislation. We support our customers with database services to help them operate correctly and efficiently. DENIOS connect combines testing, maintenance and documentation obligations in a user-friendly app.

Our service:

- Repair status and maintenance plans online
- Permanent condition monitoring and remote access to operating data
- Quick access to documentation
- Alarm in the event of a fault

The advantages for you:

- Early recognition of process risks and targeted fault management to avoid downtime
- Reduced management cost for operation and repair of the hazmat store
- Direct line to DENIOS Service
- Complete, up to date documentation

International customers trust DENIOS. Quality requires maintenance - preferably from the manufacturer!



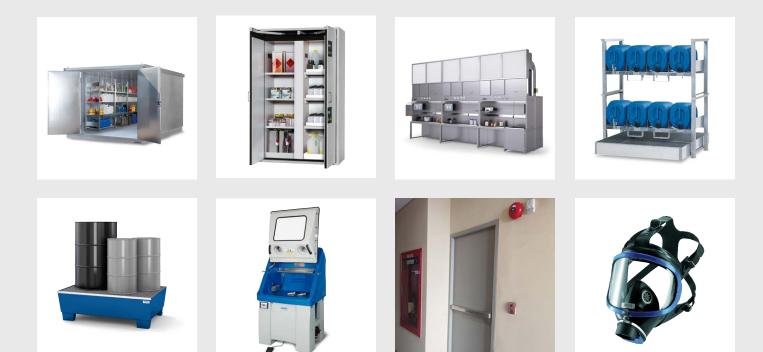


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"DENIOS is your partner and advisor."

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All inclusive safety – Our service technicians test everything:

- Walk-in room systems (ISO, F90, non-DENIOS systems) in accordance with DGUV Directive 1 / §14 BetrSichV / §4 ArbStättV
- Technical room systems for IBCs, drums, lithium-ion batteries in accordance with DGUV Directive 1 / § 14 BetrSichV / § 4 ArbStättV
- Hazmat, chemical, acid & alkali cabinets in accordance with DGUV Directive 1 / § 14 BetrSichV / § 4 ArbStättV
- Hazardous substance workstations in accordance with EC Directive 89/391/EEC/ArbSchG/ArbStättV
- Battery charging cabinets
 DGUV Directive 1 / §14 BetrSichV / §4 ArbStättV / DIN EN 62485-3
- Technical and safety rooms in accordance with DGUV Directive 1 / §14 BetrSichV / §4 ArbStättV
- Spill pallets (visual/technical) in accordance with StawaR (steel) / DIBT approval (plastic)
- Heat chambers and cold chambers in accordance with DGUV Directive 1 / §14 BetrSichV / §4 ArbStättV
- Mobile fuel tanks in accordance with 6.5.4.4.1a, 6.5.4.4.1b and 6.5.4.4.2 ADR
- Fire-rated doors and gates
 (1 / 2-wing incl. door hold-open systems)
 in accordance with DIN 31051 / DIN 14677 DIBT
- ✓ bio.X cleaning tables
- Recirculating air filter units
- Smokers' booths

- Storage systems in accordance with DIN EN 15635 / DGUV 108-007
- **Fume cupboards** in accordance with DGUV Rule 109-002
- Climate control equipment
- Extinguishing water barriers
- **Fire extinguishing equipment**
 - Eye showers in accordance with EN 15154-1/2 & ANSI Z 358.1-2004
- Emergency showers in accordance with EN 15154-1/2 & ANSI Z 358.1-2004
- Drum handling in accordance with DGUV Directive 54 / §14 BetrSichV / §4 ArbStättV
- Technical ventilation (incl. Prescribed replacements after 20,000 operating hours or 3 years)
 - in accordance with Appendix 2, Section 3, Number 5.3 BetrSichV
 - **Full masks** in accordance with DGUV Rule 112-190
- On-site service analysis of your DENIOS products
- Unloading service for room systems
- Assembly service for room systems
- Provision of lifting equipment
- Repair service including original replacement parts

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the details

are on the next

pages!



The DENIOS

Walk-in room systems



Technical room systems for IBCs, drums, lithium-ion batteries





Technical and safety rooms



Heat chambers and cold chambers



Technical ventilation

in accordance with Appendix 2, Section 3, Number 5.3 BetrSichV

To guarantee the protective function and features of your product in the long term, the fans must be replaced by a qualified specialist technician after approximately 20,000 operating hours (or after 3 years) in accordance with the operating instructions. We would be happy to provide you with a customised quotation for your next fan replacement.



The **DENIOS** All Inclusive Cost covers all additional costs

such as travel, expenses and accommodation costs, etc. There are no

extra costs at all! DENIOS All Inclusive Cost: please ask for details

Climate control equipment

- Inspection and measurement all temperatures
- Check and clean heat exchanger
- Safety inspection for damage
- Incl. test sticker
- Test report
- Incl. travel costs, expenses, accommodation etc.
- This service is carried out by a DENIOS AG partner

DENIOS All Inclusive Cost: € 450.00 per unit



Regulations change our service remains the same



The laws concerning hazardous materials storage changed in 2012!

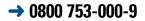
In accordance with **TRGS 510 Appendix 5, Paragraph 2, Point 6** for a store with a minimum 2 times air exchange per hour, the effectiveness of the ventilation must be monitored (e.g. by flow monitoring).

We recommend that your equipment is updated immediately by our qualified specialists to ensure that it continues to meet the current safety requirements and regulations. Take preventive action to minimise your safety risks!

We would be happy to provide you with a customised quotation for the necessary update work.

Do you have questions on our maintenance services, current legislation or about service and maintenance in general?

Don't delay - get in touch with our service specialists by email or call free on:



Your DENIOS After Sales Team



Hazmat, chemical, acid & alkali, lithium-ion cabinets

in accordance with DGUV Directive 1 / §14 BetrSichV / §4 ArbStättV

Functional inspection and maintenance of mechanical parts

Test of fire protection technical usability (DIN 12925/EN 14470 cabinets only)

Safety inspection

and the

- Technical ventilation inspection
- Visual inspection
- Plus one-off travel cost flat-rate per site

2 65 00 16 30

> Volume discounts available!

Do you need assistance with a safety-related inspection?

0800 753-000-9

We'd be happy

to help!

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Price: from € 33.00 per unit

Price: € 159.00 per unit

Recirculating air filter units

Replacement of recirculating air equipment filter Inspection of recirculating air filter unit Replacement of the filter unit

- Disposal of the old filter unit
- Plus one-off travel cost flat-rate per site, if the inspection is not carried out after inspection of a hazmat, chemical, acid & alkali cabinet



Battery charging cabinets

in accordance with DGUV Directive 1 / \$14 BetrSichV / \$4 ArbStättV / DIN EN 62485-3

- Inspect general condition
- Visual inspection for damage and defects
- Measure air quantity
- Inspect sockets
- Test report
- Incl. travel costs, expenses, accommodation etc.





Hazardous substance workstations

in accordance with EC Directive 89/391/EEC/ArbSchG/ ArbStättV

- Visual inspection of the safe condition of the hazardous substance workstation including operational ventilation inspection using manufacturer's instructions
- Fault analysis
- Measures to prevent wear
- Functional inspection of functional control unit
- Report on maintenance work
- Immediate repair in accordance with DIN 31051
- Legally-compliant marking, inspection of documentation
- Incl. test plate
- Test report
- Plus one-off travel cost flat-rate per site



Fume cupboards

In accordance with DGUV Rule 109-002

Incl. travel costs, expenses, accommodation etc.

Inspection of the technical equipment parameters:

Air extraction flow, electric drive current draw, lighting intensity, noise level, ejector nozzle pressures

Inspection of all accessible mechanical components:

Visual inspection, functional inspection

Inspection of equipment operation:

- Check of the flow pattern using test smoke
- Resetting of the equipment parameters if required

Test report:

- Listing of all maintenance work carried out
- Documentation of measured values
- Listing of any problems
- Provision of a test sticker if the result is positive





Spill pallets (visual / technical)

In accordance with StawaR (Steel) / DIBT approval (plastic)

- Technical sealing test using weld seam test process (vacuum pump)
- Visual inspection for damage and defects
- Corrosion
- Contamination
- Incl. test sticker
- Test report
- Plus one-off travel cost flat-rate per site, if the inspection is not carried out after a container or hazardous materials cabinet inspection







Drum handling

Model: Drum lifter Secu Drive/ Secu Ex

in accordance with DGUV Directive 54 / §14 BetrSichV / §4 ArbStättV

- Inspect general condition
- Visual inspection for damage and defects (breaks, deformation, cracks, damage, wear, corrosion damage)
- Check for ease of movement of moving parts as well as load chain, lubricate if necessary
- Check removable connections for secure mounting
- Clean the drum lifter (if no harmful substances or deposits are present)
- Check the position of the release lever and counter support
- Check electrical conductivity
- Check control unit battery if necessary
- Test report
- Incl. travel costs, expenses, accommodation etc.

Fire-rated doors and gates

Model: 1/ 2-wing fire-rated doors and gates incl. door hold-open systems

in accordance with DIN 31051 / DIN 14677 DIBT

- Visual inspection of door leaf and frame for damage
- Check mounting bolts
- Oil latch and bolt
- Check latch play
- Check mounting, grease hinge bolts
- Check spring hinges
- Check closer setting
- Check gap between door leaf and frame
- Check closing action
- Trigger smoke and/or temperature switch using simulation
- Check manual release
- Simulate power cut
- Check door sequence controller
- Test report
- Plus one-off travel cost flat-rate per site
- This service is carried out by a DENIOS AG partner



Price: from € 27.00 per unit

DENIOS All Inclusive Cost: € 280.00 per unit



Storage systems

in accordance with DIN EN 15635 / DGUV 108-007

- Visual inspection of all shelving for recognisable deformations, damage and defective components
- Visual inspection to ensure compliance with safety guidelines in accordance with DIN EN 15635 and DGUV 108-007
- Comparison of load information plates with actual assembly
- Production of a test report and issue of inspection plate
- Recommendations for replacement of damaged parts
- Incl. travel costs, expenses, accommodation etc.
- This service is carried out by a DENIOS AG partner

The DENIOS All Inclusive Cost covers all additional costs such as travel, expenses and accommodation costs, etc.

> There are no extra costs at all!

bio.x cleaning tables

- Insulation test
- Functional inspection of components
- Safety inspection of all functions, replacement of faulty components if necessary
- Draining and refilling the tank
- Visual inspection for damage and defects
- Incl. test sticker
- Test report
- Incl. travel costs, expenses, accommodation etc.

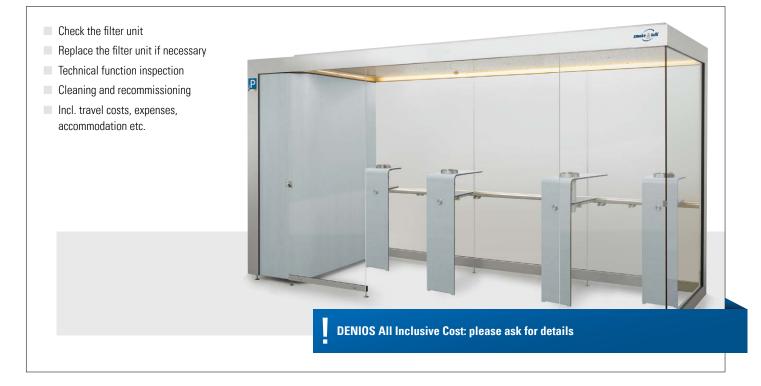


DENIOS All Inclusive Cost: please ask for details

Mobile fuel tanks



Smokers' booths





Full masks

in accordance with DGUV Rule 112-190

- Visual inspection of main components (mask body, clamps, visor, straps, connection piece with valves)
- Inspection of parts which have an expiry date
- Testing of breathing valve opening pressure
- Overall mask sealing test
- Check of records
- Visual inspection of speech diaphragm, visor wiper, helmet adaptor if necessary
- Dimensional accuracy check for masks with a threaded connection if necessary
- Incl. cleaning and disinfection
- Incl. return of the tested masks to the customer
- This service is carried out by a DENIOS AG partner
- Notice: If a full mask is to be decontaminated, please provide information on the type of decontamination beforehand. The mask must be dispatched separately - this is compulsory.



Emergency showers

in accordance with DIN EN 15154-2:2006 and BGI/GUV-I 850-0

- Inspect general condition
- Check accessibility
- Check function
- Check warning signs are fitted
- Correct operation by pull handle or tilting lever
- Shut-off fitting closes automatically
- Auto-draining between valve and shower head
- Mounting height of shower head lower edge according to specification
- Check service lock
- Correct installation of emergency shower
- Check for leaks
- Flow rate to specification
- Check spray pattern
- Test report
- Plus one-off travel cost flat-rate per site, if the inspection is not carried out after a container or hazardous materials cabinet inspection



Eye showers

in accordance with DIN EN 15154-2:2006 and BGI/GUV-I 850-0

- Inspect general condition
- Check accessibility
- Check function
- Check warning signs are fitted
- Mounting height of spray head upper edge according to specification
- Dust cap for spray head present
- Check impact protection
- Check hose for damage
- Check service lock
- Correct installation of eye shower
- Check for leaks
- Flow rate to specification
- Check spray pattern / spray height
- Test report
- Plus one-off travel cost flat-rate per site, if the inspection is not carried out after a container or hazardous materials cabinet inspection.



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Extinguishing water barriers

- Check correct storage
- Check pressure lever operation
- Check all bolts are correctly tightened
- Check bearing blocks for sealing
- Check seals for function
- Deploy the spill barrier and check handling
- Lubricate all moving parts
- Incl. travel costs, expenses, accommodation etc.
- This service is carried out by a DENIOS AG partner

The DENIOS All Inclusive Cost Covers all additional costs such as travel, expenses and accommodation costs, etc. There are no



Gas warning equipment

extra costs at all!

in accordance with DGUV Information 213-057 technical note T 023 and 213-056 technical note T 021 $\,$

- Visual inspection and indicator display test for portable gas warning equipment
- Visual inspection of fixed gas warning equipment and systems
- Functional test including calibration and adjustment
- System inspection
- Check of records
- Documentation of completeness of above inspections
- Incl. travel costs, expenses, accommodation etc.
- This service is carried out by a DENIOS AG partner



Repair service including original replacement parts

- Repair of your room system by qualified and trained DENIOS AG service technicians
- Use of original replacement parts
- Clarification of the replacement parts actually needed directly in the briefing with our claims department or from the damage survey carried out by our service technicians on site
- Repair and proof, based on our currently applicable assembly and maintenance terms and conditions
- Reduction of calculated repair costs through the use of in-house, qualified personnel

The **DENIOS** All Inclusive Cost covers all additional costs such as travel, expenses and accommodation costs, etc.

There are no extra costs at all!



DENIOS All Inclusive Cost: please ask for details

On-site service analysis of your DENIOS products

- Detailed overview of your active DENIOS products
- Simplified procurement of replacement parts
- Shorter reaction times when service is needed
- Reduction of costs and unplanned downtime
- Basis for customised additional service plans
- Note of adjustments needed for currently available products or follow-on products
- Provision of notices concerning legal alterations made to our products
- Recommendations for prescribed maintenance schedules depending on product type
- Incl. photo documentation of your DENIOS products
- Incl. travel costs, expenses, accommodation etc.
- Warning! If, following this analysis, you choose to agree corresponding maintenance contracts with us for your products, the costs for your inventory may be calculated pro rata.



DENIOS All Inclusive Cost: € 490.00 per unit



Assembly service for room systems

- The room system is unloaded by the customer
- Installation and alignment of the system supplied
- Levelling for unevenness up to 10 mm (does not apply to room system Models WFP and RFP)
- Removal of transport safety devices
- Securing the system to the prepared floor
- If necessary, assembly of additional components on the supplied system
- Handover of documentation
- Notice: For the unloading & assembly service, there must be a person available at the customer's site for safeguarding purposes.



DENIOS All Inclusive Cost: please ask for details

Provision of lifting equipment for assembly

- Provision of suitable lifting equipment (such as forklifts, truck-mounted cranes, lifting work platforms for example), which are needed for assembly work
- Lifting equipment is provided for a fixed fee
- If delays are incurred due to construction difficulties, which means that the lifting equipment needs to be rented for a longer period, the cost will rise accordingly



DENIOS All Inclusive Cost: please ask for details

Unloading service for room systems

Do you know if your DENIOS product has to be tested? 800 753-000

- The installation site must be able to be reached by a heavy goods vehicle via a reinforced access
- Unloading takes place within the swivel range of the unloading crane
- The unloading area must be free of projecting edges
- Professional attachment of lifting equipment
- Unloading of the room system
- Handover of documentation
- Notice: Preparations must be made at the customer site for the unloading & assembly service. Please speak to us directly beforehand!



DENIOS All Inclusive Cost: please ask for details



DENIOS ACADEMY

Sharing our knowledge



Expert knowledge: at DENIOS and at your site

Our seminar programme offers excellent **training and education** for subjects such as fire protection, work safety, hazardous substances and environmental regulations.

Ensure regular updates on **theory and practice** for these complex subjects for you and your employees. Seminars usually take place in the DENIOS Academy training rooms, but may also be held at your premises if required.

A special highlight: **DENIOS expertise on tour** with our hazmat days. Seminars are held at unusual locations across Germany.

DENIOS hazmat days

The annual update on everything to do with environmental protection & safety - by practitioners, for practitioners. Hazmat days come to many interesting locations in Germany each year. Based on a real storage situation, use the safety data sheets to determine the relevant properties of the goods stored and pre-filled checklists to decide the storage requirements. You'll cover things from an economic point of view and also verify the legal requirements (TRGS 510 etc). Building on this, explosion protection will be examined in detail with many practical examples and experiments. A chance to view real storage systems concludes the interesting, practical day's programme.

Health & Safety and Security





Hazardous materials

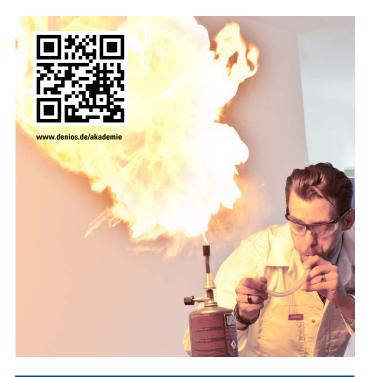
Fire protection



Environmental protection







DENIOS Academy individual

Professional handling of hazardous substances involves considerable risks. Ignorance, an incorrect judgement – **only a few people would know how big the potential risks are in the day to day workplace**. Even for professionals, the development of a routine can contribute to reduced attention or errors - with potentially fatal consequences ...

Damage to life and limb, damage to the environment and considerable loss of value! The individual seminars offered by the DENIOS Academy sensitize employees to risks in entertaining and impressive ways.

They learn to **recognise hazards quickly and avoid future accidents** or, if necessary, quickly and confidently take the appropriate steps to minimise the effects. These basic building blocks for operational safety cover topics such as handling, internal transport, storage and disposal of hazardous materials and accident prevention and management.

The fundamental legal requirements, risk assessment, operator's instructions etc. are also covered.

Theory is supplemented by live experiments, practice-oriented demonstrations and training modules.

Your particular advantages:

- Takes place at your site
- On the date you require, once agreed
- Subjects can be customised
- Advantageous cost, per training session (rather than per participant)
- Individual participant certification with VDSI points

- Suitable for covering part of the training requirement for companies in accordance with § 4, Para. 1 German Accident prevention regulations - Basis for prevention DGUV Directive 1 and § 14, Para. 2 German Hazardous substance regulations.



.... or do you need something really individual?

Are you on the hunt for a training course designed especially for your needs or a location for your next conference? Our meeting rooms don't just offer a professional setting. We would be happy to enhance your agenda with lectures, workshops, guided tours or seminar days. Speak to us - we'll be happy to help run your custom event!

More info can be found at:

https://www.denios.de/fachwissen/deniosakademie/ or from your presenter: Dipl. Biologe Tobias Authmann Email: toa@denios.de Tel.: 05731 – 753 227

"We look forward to your call,,

Event Manager Tim Frischholz Tel.: 05731 753-266 Fax: 05731 753-198 Email: tiF@denios.de www.denios.de/akademie









DENIOS International

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