

Responsibility of Managers with regard to Occupational Safety

Hazard-Orientated Key Issues related to Code of Practice A 017e

VISION ZERO.

ZERO ACCIDENTS – HEALTHY WORKING!

VISION ZERO is the vision of a world without occupational accidents and work-related illnesses. In this connection the avoidance of lethal and severe occupational accidents and illnesses is given highest priority. The goal of a comprehensive culture of risk prevention is VISION ZERO.



Further information concerning the VISION ZERO Prevention Strategy is available at: <http://visionzero.global/>

This Code of Practice particularly deals with the Golden Rule **“Take Leadership – Demonstrate Commitment”**

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Introduction

This Code of Practice is addressed to entrepreneurs and managers. It supports them within the scope of the prevention strategy of BG RCI “VISION ZERO. Zero Accidents – Healthy Working!” when assuming their responsibilities for occupational safety.

This Code of Practice does **not** replace the implementation of the risk assessment; on the contrary, it requires a risk assessment.

If a risk assessment is implemented through the BG RCI system based on the Codes of Practice A 016e “Risk Assessment – Seven Steps to the Goal” and A 017e “Risk Assessment – Hazard Catalogue”, the following questions can be assigned to the risk and stress factors listed in the hazard catalogue of A 017e. These questions are meant to demonstrate whether internal appropriate regulations and documents exist.

Basic regulations and guidance documents of accident insurance institutions are cited as legal sources. More detailed information of relevant legal sources can be found in Code of Practice A 017e.

This paper has been compiled with great care. However, this does not absolve the entrepreneur from the duty and responsibility of checking the information to be complete, correct and up to date, and, if necessary, to add details.

A 017-1e “Responsibilities of Managers with regard to Occupational Safety”

Hazard-Orientated Key Issues related to Code of Practice A 017e

Company:

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Part of Company/Department:

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.....

Manager:

.....

.....
Date



1 Section 1 of Code of Practice A 017e “Basic Organisational Factors”

Question	Legal Bases	Not applicable	Already established?			Internally organised through ... (e. g. procedural instructions, SOPs, delegation)	Regulations adequate?		Remarks
	Guidance Documents of Accident Insurance Institutions		Yes	No	On a superior level		Yes	No	
1.1 Are the employees regularly instructed (once a year at least) and is this process documented?	§ 12 ArbSchG § 12 BetrSichV § 14 GefStoffV § 14 BioStoffV Section 4 and Section 31 DGUV Regulation 1 <hr/> A 026 Practical Assistance File “Aus Arbeitsunfällen lernen” Practical Assistance File “Aus Berufskrankheiten lernen”								
1.2 Are persons which are in need of particular protection like young people, pregnant women or breastfeeding mothers, employees who are associated with CRM substances and employees with disabilities instructed regularly in hazards and employment restrictions? <i>Examples: work activities involving toxic substances, CMR substances, biological agents, particular hazards caused by disabilities such as mobility disabilities, visual or acoustical limitations.</i>	§ 12 ArbSchG in conjunction with § 10 MuSchG § 29 JArbSchG § 12 ArbSchG in conjunction with § 4 ArbSchG <hr/> A 027 A 027-1								
1.3 Are the working areas provided with current operating instructions concerning hazardous substances, biological agents, genetically modified organisms, work equipment/machines and specific activities? <i>These operating instructions must be presented in an understandable form and language and must be available for all employees.</i>	§ 12 BetrSichV § 14 GefStoffV § 14 BioStoffV § 17 GenTSV								

Question	Legal Bases	Not applicable	Already established?			Internally organised through ... (e. g. procedural instructions, SOPs, delegation)	Regulations adequate?		Remarks
	Guidance Documents of Accident Insurance Institutions		Yes	No	On a superior level		Yes	No	
1.4 Are permit-to-work forms or release forms issued for dangerous work? <i>Examples: Open flame operations, working at heights, working in containers or confined spaces. According to GenTSV there are special regulations for repair, maintenance and cleaning work.</i>	Annex 1, No. 1.4 GefStoffV § 18 GenTSV Section 8 DGUV Regulation 1 Section 2.7 DGUV Regel 100-001 DGUV Regel 113-004 DGUV Information 205-001								
1.5 Are there regulations concerning the coordination when external companies are involved?	§ 8 ArbSchG § 13 BetrSichV § 15 GefStoffV Section 6 DGUV Regulation 1 Section 2.7.1 of DGUV Regel 100-001 DGUV Information 211-006 A 009								
1.6 Did you ensure that an Occupational Safety and Health Coordinator (“SiGeKo”) is assigned for construction sites which meet the criteria of the Construction Site Ordinance (BaustellV)?	§ 3 BaustellV RAB 30 RAB 31								
1.7 Do documents exist concerning work at construction sites? <i>“SiGe” plan and documents for subsequent work at the site.</i>	§ 2 BaustellV incl. RAB 31 RAB 32								
1.8 Do single workplaces exist and has it been proven that and under which conditions single work is permitted? <i>In case of dangerous single work it has to be checked if personal alarm systems are needed.</i>	Section 8 Subsection 2 DGUV Regulation 1 DGUV Regel 100-001 DGUV Regel 112-139								
1.9 Is adequate personal protection equipment (PPE) available and is the use of PPE subject to checks? <i>When checking the suitability of PPE, the activity as well as the working environment (e. g. explosion-hazard areas) must be considered.</i>	§ 2 PSA-BV Sections 29 et seqq. DGUV Regulation 1 A 008								

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	Guidance Documents of Accident Insurance Institutions		Yes	No	On a superior level		Yes	No	
1.10 Is a First-Aid System established? <i>A sufficient number of first aiders, the establishment of emergency and rescue chains.</i>	Sections 24 et seqq. DGUV Regulation 1 DGUV Information 204-022								
1.11 Are measures for alerts implemented? <i>Alarm plan, escape and rescue plans, assembly point(s). The measures of these plans must be regularly instructed and trained.</i>	§ 10 ArbSchG Section 22 DGUV Regulation 1								
1.12 Are the hygiene requirements of the Occupational Workplace Regulations and further regulations met? <i>Separated lockers for working suits and casual clothing, break rooms, changing rooms, washing facilities, toilets, a hygiene plan (if necessary).</i>	§ 3a ArbStättV §§ 8 et seqq. GefStoffV § 9 BioStoffV §§ 14, 17 Appendix 2 GenTSV ASR A4.1								
1.13 Does an adequate organisation for occupational safety exist? Are the liabilities and the tasks of enterprise office-holders clearly defined and delegated in written form in a legally valid way? <i>Are the office-holders provided with the required supply regarding personnel and financial resources? Are regulations on systematical occupational safety applied (occupational safety and health management system)?</i>	§ 3 ArbSchG Sections 19 et seqq. DGUV Regulation 1 DGUV Regel 100-001 Practical Assistance File “Arbeitsschutz mit System” A 006								
1.14 Do the managers carry out their control obligations and supervisory duties and are these documented? <i>Random control depending on the potential severity of damage and the probability of occurrence.</i>	§ 3 ArbSchG Sections 2 et seqq. DGUV Regulation 1 DGUV Regel 100-001 A 006								
1.15 Is the participation of the managers in plant tours, safety discussions and incident investigations in the working areas settled?	§ 3 ArbSchG								

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	Guidance Documents of Accident Insurance Institutions		Yes	No	On a superior level		Yes	No	
1.16 Are the safety-related support and occupational medical care settled? <i>Companies with less than 50 employees have the option of alternative support models, which take into account the requirements of small enterprises (“Unternehmermodell”).</i>	§ 1 ASiG Section 19 DGUV Regulation 1 Section 2 DGUV Regulation 2 A 018								
1.17 Are the employees informed about occupational medical care and safety-related support? Do they know the occupational physician and OSH professional, who are appointed and responsible for them?	Annex 1, 2 and 3 DGUV Regulation 2 A 018								
1.18 Is the occupational health care settled? <i>Mandatory, optional and elective health care.</i>	§§ 4 et seqq. and Annex ArbMedVV KB 011-1 KB 011-2								
1.19 Do job advertisements ensure that the tasks are only assigned to professionally and personally qualified employees?	§ 7 ArbSchG Section 7 DGUV Regulation 1								
1.20 Is a sufficient number of safety delegates appointed? <i>It must be ensured that the safety delegates have enough time for their task, the opportunity of continuing education, participation in inspections, accident investigations and meetings of the industrial safety committee.</i>	§ 22 SGB VII Section 20 DGUV Regulation 1 A 004-1								
1.21 Is the appointment of further representatives prescribed by law necessary? <i>Examples: Safety Advisor for the Transportation of Dangerous Goods, Major Accidents Officer, Radiation Protection Officer. See Appendix 2 in Code of Practice A 017e for further information.</i>	A 002								

Question	Legal Bases	Not applicable	Already established?			Internally organised through ... (e. g. procedural instructions, SOPs, delegation)	Regulations adequate?		Remarks
	Guidance Documents of Accident Insurance Institutions		Yes	No	On a superior level		Yes	No	
1.22 Is the works council involved in occupational safety topics, e. g. choice of PPE, accident investigations, participation in the industrial safety committee, appointment and determination of service times of OSH professionals and occupational physicians?	BetrVG ASiG								
1.23 Is an industrial safety committee (ASA) established and are regular meetings taking place? <i>In principle every three months.</i>	§ 11 ASiG								
1.24 Did you determine the type and scope of inspections concerning work equipment?	§ 3 Section 6 and § 4 Section 5 BetrSichV TRBS 1201 Appendix 3 A 017e								
1.25 Is it ensured that employees check the safety of the working materials before using them (simple visual and functional inspection)?	Section 2.6 TRBS 1201								
1.26 Are machines and installations inspected before commissioning and is this process documented? <i>See Appendix 3 in Code of Practice A 017e and Codes of Practice T 008 et seqq.</i>	§§ 14 et seqq. BetrSichV T 008 et seqq. APP Maschinencheck T 008 Appendix 3 A 017e								
1.27 Is the work equipment subject to inspection completely listed? Are the inspection periods determined? Are the inspections regularly carried out and are the results documented? <i>A list of work equipment and installations subject to inspection including supposedly “simple” equipment like ladders or step stools is obligatory. Test plans and protocols are required. See also Appendix 3 in Code of Practice A 017e and Codes of Practice T 008 et seqq.</i>	BetrSichV TRBS 1201 Appendix 3 A 017e T 008 et seqq. Practical Assistance File “Arbeitsschutz mit System”								

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	Guidance Documents of Accident Insurance Institutions		Yes	No	On a superior level		Yes	No	
1.28 Does a testing regime exist for plants subject to inspection? <i>Examples: Pressure equipment, lifts, petrol stations, plants in potentially explosive areas.</i>	§§ 15 et seqq. and Annex 2 BetrSichV								
1.29 Are safety-related installations regularly inspected? <i>Examples: Emergency showers, fire-extinguishing installations, ventilation and exhaust systems.</i>	§ 4 ArbStättV § 4 and Annex 1 BetrSichV § 7 GefStoffV								
1.30 Are restrictions of employment fulfilled during activities related to CMR-substances? <i>In general, this is applied for all employees regardless of age and gender.</i>	§ 10 GefStoffV								
1.31 Are employment prohibitions and restrictions for pregnant women and breastfeeding mothers and young people observed? <i>E. g. limits of working hours, social rooms, rest areas, activities with specific hazardous substances.</i>	§§ 2 et seqq. and 10 et seqq. MuSchG § 5 and §§ 22-24 JArbSchG								
1.32 Has the basic demand of measures related to maternity protection been determined within the risk assessment? <i>This is also needed if no female employees are currently employed.</i>	§ 10 MuSchG A 027 A 027-1								
1.33 Is it guaranteed that a supplementary personalized risk assessment for each activity of a pregnant woman or breastfeeding mother is prepared?	§ 10 MuSchG A 027 A 027-1								
1.34 Is the responsible authority informed about pregnant employees? <i>Examples: Trade supervisory board, regional authorities of the federal state.</i>	§ 27 MuSchG								

Question	Legal Bases	Not applicable	Already established?			Internally organised through ... (e. g. procedural instructions, SOPs, delegation)	Regulations adequate?		Remarks
	Guidance Documents of Accident Insurance Institutions		Yes	No	On a superior level		Yes	No	
1.35 Is it guaranteed that for people with disabilities special hazards are taken into consideration for the risk assessment? <i>E. g. hearing impairments, visual handicaps, or motoric disabilities.</i>	§ 4 ArbSchG ASR V3a.2								



2 Section 2 of Code of Practice A 017e “Hazards related to Workplace Design”

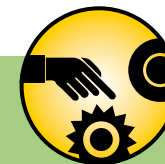
Question	Legal Bases	Not applicable	Already established?			Internally organised through ... (e. g. procedural instructions, SOPs, delegation)	Regulations adequate?		Remarks
	Guidance Documents of Accident Insurance Institutions		Yes	No	On a superior level		Yes	No	
2.1 Is the building used according to the building approval? <i>The use not according to the rules can lead to additional hazards.</i>	Building Code of the respective Federal State MIndBauRL								
2.2 Are there checks if the general requirements of the Occupational Workplace Regulations concerning working areas and workplaces are met? <i>Room dimensions, movement area, air quality, lighting.</i>	Section 3 Appendix ArbStättV with ASR								
2.3 Are regulations related to the design of barrier-free workplaces considered?	ASR V3a.2								
2.4 Does a concept of traffic routes exist? <i>Examples: Separation of working areas from traffic routes, separation of pedestrian traffic from roadways, regulations on doors, gates, loading bays, stairs, condition of traffic routes.</i>	Section 1.8 Appendix ArbStättV with ASR								
2.5 Are the requirements of escape and rescue routes met? Is it ensured that they are permanently kept free from obstacles? <i>Examples: Number and length of escape routes, marking, lighting.</i>	Building Code of the respective Federal State MIndBauRL ASR A2.3								
2.6 Did you ensure the working areas to be clean and tidy? <i>Clean and tidy working areas are an essential element for the prevention of accidents.</i>	ASR A1.8								

Question	Legal Bases	Not applicable	Already established?			Internally organised through ... (e. g. procedural instructions, SOPs, delegation)	Regulations adequate?		Remarks
	Guidance Documents of Accident Insurance Institutions		Yes	No	On a superior level		Yes	No	
2.7 Do regulations exist for work at height, or work near roof or bottom openings? <i>Generally, a permit-to-work-form procedure is recommended.</i>	ASR A2.1								
2.8 Did you ensure that ladders are only used for minor tasks limited in time and implying a low hazard?	Appendix 1 No. 3.1 BetrSichV DGUV Information 208-016								
2.9 Do regulations exist for working in containers and confined spaces? <i>Generally, a permit-to-work-form procedure is obligatory. For regular activities implying hazards of the same kind regulations through operating instructions are allowed.</i>	DGUV Regel 113-004								
2.10 Do specific regulations exist for working close to water, at port installations, water tanks for fire fighting, sewage treatment plants, and vessels?	Section 25 Subsection 3 DGUV Regulation 1 § 33 DGUV Vorschrift 21								



3 Section 3 of Code of Practice A 017e “Hazards related to Ergonomic Factors”

Question	Legal Bases	Not applicable	Already established?			Internally organised through ... (e. g. procedural instructions, SOPs, delegation)	Regulations adequate?		Remarks
	Guidance Documents of Accident Insurance Institutions		Yes	No	On a superior level		Yes	No	
3.1 Do evaluations exist for physically demanding work? <i>Example: Key Indicator Method for the assessment of lifting, holding and carrying, pushing and pulling loads as well as manual working processes (www.baua.de/leitmerkmalmethoden).</i>	§ 2 Section 2 LasthandhabV								
3.2 Do the lighting conditions of the workplaces and traffic routes meet the requirements at work of safety and health protection?	Appendix No. 3.4 ArbStättV ASR A3.4								
3.3 Do the climatic conditions of the workplaces meet the requirements at work of safety and health protection? <i>Air quality, air temperature, air humidity, air velocity.</i>	Appendix No. 3.5 et seqq. ArbStättV ASR A3.5 ASR A3.6 Appendix 5 A 017e								
3.4 Are the workplaces provided with highly visible safety marks? <i>Because of clarity old and new safety marks shouldn't be mixed within one working area.</i>	ASR A1.3								
3.5 Are the display work stations evaluated?	§ 3 ArbStättV T 044 CHL 002								



4 Section 4 of Code of Practice A 017e “Mechanical Hazards”

Question	Legal Bases	Not applicable	Already established?			Internally organised through ... (e. g. procedural instructions, SOPs, delegation)	Regulations adequate?		Remarks
	Guidance Documents of Accident Insurance Institutions		Yes	No	On a superior level		Yes	No	
4.1 Are risk assessments and operational instructions based thereon present for all machines, means of transport and work equipment with specific risks?	§§ 3 and 4 BetrSichV § 12 Section 2 in conjunction with § 8 BetrSichV								
4.2 Did you ensure that the machines, means of transport and work equipment with specific risks are run according to the regulations using the existing safety devices? <i>See Operational Instructions.</i>	§ 6 et seqq. BetrSichV								
4.3 Did you ensure that only competent, trained and authorised persons are employed to drive means of transport and to operate machines and plants?	§ 12 BetrSichV								
4.4 If there are limitations of the minimum clearance outline or the safe distance: Do special authorisations exist and are the safeguard measures met which are defined in those? <i>This must particularly be checked for cranes and railroads.</i>	DGUV Vorschrift 52 and 73								
4.5 Does a procedure exist which prevents an unauthorised or unintended starting of machines, plants and means of transport? <i>Examples: Safety procedure for maintenance work (LOTO: Lockout/Tagout), removal of vehicle keys at means of transport, securing the main switch.</i>	KB 035								
4.6 Did you ensure that in case of loading and transport the needs of occupational safety and health protection are considered? <i>The application of road traffic regulations (StVO) is also recommended for in-house transport.</i>	StVO DGUV Vorschrift 52 DGUV Vorschrift 68 DGUV Vorschrift 70								



5 Section 5 of Code of Practice A 017e “Electrical Hazards”

Question	Legal Bases	Not applicable	Already established?			Internally organised through ... (e. g. procedural instructions, SOPs, delegation)	Regulations adequate?		Remarks
	Guidance Documents of Accident Insurance Institutions		Yes	No	On a superior level		Yes	No	
5.1 Are the responsibilities defined for electro-technical work? › operator of an electrical installation › person responsible for an electrical installation › person responsible for a work activity › electrically skilled person › electrically skilled person with leadership function › electrically instructed person (EuP)	Section 3 DGUV Vorschrift 3 DGUV Information 203-001 DIN VDE 0105-100 DIN VDE 1000-10								
5.2 Did you ensure that all working activities at electrical installations and resources are only carried out by electrically skilled persons or electrically skilled persons with a special area of responsibility/electrically instructed persons (EuP)?	Section 3 DGUV Vorschrift 3								
5.3 Did you ensure that all electrical resources are regularly inspected? › stationary electrical resources every 4 years at least › portable electrical resources: depending on the results of the risk assessment. As a rule every 6 months up to 2 years, at construction sites under particular load every 3 months.	§ 3 Section 5 BetrSichV Section 5 DGUV Vorschrift 3								
5.4 Are all electrical resources selected according to the specific operational conditions and to the potential external influences? <i>Example: IP protection classes.</i>	DGUV Information 203-005 DGUV Information 203-006								
5.5 Is all live-line working only carried out by specially trained electrically skilled persons regarding particular safeguard measures?	DGUV Regel 103-011								

Question	Legal Bases	Not applicable	Already established?			Internally organised through ... (e. g. procedural instructions, SOPs, delegation)	Regulations adequate?		Remarks
	Guidance Documents of Accident Insurance Institutions		Yes	No	On a superior level		Yes	No	
5.6 Are the limits for electric and magnetic field strength fulfilled in work areas which contain electromagnetic fields? <i>If necessary, mark out/mark work areas. Check access rules individually, especially for wearers of implants.</i>	Appendix 1 No. 1 DGUV Vorschrift 15								



6 Section 6 of Code of Practice A 017e “Hazards related to Substances”

Question	Legal Bases	Not applicable	Already established?			Internally organised through ... (e. g. procedural instructions, SOPs, delegation)	Regulations adequate?		Remarks
	Guidance Documents of Accident Insurance Institutions		Yes	No	On a superior level		Yes	No	
6.1 Are current lists of hazardous substances maintained? <i>It is appropriate to distinguish between working and storage areas. The following data are particularly relevant: name of substance, classification or information about hazardous characteristics, quantities in operation areas and working areas in which employees are engaged in activities with hazardous substances.</i>	§ 6 Section 12 GefStoffV Section 5.8 TRGS 400								
6.2 Does a collection of current safety data sheets exist for all hazardous substances in use? <i>The collection can be made in digital or paper form.</i>	§§ 5 and 14 GefStoffV								
6.3 Are the bans on production and use observed? <i>Examples: CMR substances (carcinogenic, mutagenic, toxic to reproduction) as well as very toxic substances.</i>	Annex XVII REACH Regulation § 16 and Appendix I and II GefStoffV KB 024-1								
6.4 Have substitution checks been carried out for hazardous substances? <i>The documentation is part of the risk assessment. In case a substitution of a CMR substance is not possible a justification is necessary.</i>	§ 6 Section 1, 8 GefStoffV TRGS 600 See also Appendix 6 A 017e								

Question	Legal Bases	Not applicable	Already established?			Internally organised through ... (e. g. procedural instructions, SOPs, delegation)	Regulations adequate?		Remarks
	Guidance Documents of Accident Insurance Institutions		Yes	No	On a superior level		Yes	No	
<p>6.5 Do you check if the operational use of hazardous substances is documented in the exposure scenarios of the <u>extended</u> safety data sheets? <i>If this is not the case the supplier must be contacted or a safety report for each hazardous substance must be created by the company itself.</i></p>	Annex I REACH Regulation BekGS 409								
<p>6.6 Do operational instructions and risk assessments exist for every activity with hazardous substances? <i>According to TRGS 555 a creation of operating instructions for a group of hazardous substances (e. g. mineral acids) is permitted.</i></p>	§§ 6 and 14 GefStoffV TRGS 555 A 010 GisChem								
<p>6.7 Are the following documents available for each employee: › List of hazardous substances, › Safety Data Sheets, › Operational Instructions? <i>Access in digital form or paper form.</i></p>	§ 14 GefStoffV								
<p>6.8 Do all employees receive an <u>oral</u> instruction on activities with hazardous substances at least once a year? <i>The instructions must include a basic consultation on occupational medicine and toxicology.</i></p>	§ 14 GefStoffV								
<p>6.9 Is the personal protective equipment, which is specified in the operating instructions, made available for employees and do they use it?</p>	§ 9 GefStoffV § 6 Section 2 BetrSichV § 2 PSA-BV Section 29 DGUV Regulation 1 A 008								
<p>6.10 Are employment restrictions observed for categories of persons who are in particular need of protection? <i>Examples: young people, pregnant women and breastfeeding mothers.</i></p>	§§ 4-6 MuSchG § 22 JArbSchG M 053								

Question	Legal Bases	Not applicable	Already established?			Internally organised through ... (e. g. procedural instructions, SOPs, delegation)	Regulations adequate?		Remarks
	Guidance Documents of Accident Insurance Institutions		Yes	No	On a superior level		Yes	No	
6.11 Are employees instructed about activities involving CMR substances before they start working? Are they instructed at least once a year including employment restrictions afterwards?	§ 14 GefStoffV § 11 MuSchG Section 5.2 TRGS 555								
6.12 Have occupational exposure limits or assessment standards for all hazardous substances been determined?	§ 6 GefStoffV								
6.13 Are occupational exposure limits or assessment standards met safely and permanently? <i>The results can be achieved by estimation, calculation or measurements (measurement reports).</i>	§ 7 Section 8 GefStoffV TRGS 402								
6.14 Are the employees registered who are exposed to carcinogenic and mutagenic substances belonging to Category 1A or 1B above limit values or who undergo dermal contact? <i>This is also effective in case of an accidental exposition. Internal documentation or via the Central Database for Exposure Values of DGUV at zed.dguv.de</i>	§ 14 Section 3 GefStoffV TRGS 410 KB 024-2								
6.15 Does a regulation concerning occupational health care exist for employees handling hazardous substances?	Annex ArbMedVV KB 011-1 KB 011-2								
6.16 Did you ensure a follow-up preventive health care for employees exposed to carcinogenic or mutagenic substances respectively asbestos (DGUV Precaution, www.dguv-vorsorge.de) <i>The report must be made independently of the exposure level.</i>	§ 5 Section 3 ArbMedVV § 2 Section 3 GefStoffV KB 024-2								
6.17 Are the provided amounts of hazardous substances minimised at workplaces? <i>The regulations for small quantities according to Section 1 of TRGS 510 must be observed.</i>	§ 8 GefStoffV TRGS 510								

Question	Legal Bases	Not applicable	Already established?			Internally organised through ... (e. g. procedural instructions, SOPs, delegation)	Regulations adequate?		Remarks
	Guidance Documents of Accident Insurance Institutions		Yes	No	On a superior level		Yes	No	
6.18 Are the storage requirements according to TRGS 509 and 510 met? <i>Observe requirements of fire technology, storage quantities, joint storage, storage facilities etc.</i>	TRGS 509 TRGS 510 M 062 M 063								
6.19 Are safety-related installations (e. g. ventilation systems and fume hoods) which are relevant for activities involving hazardous substances regularly inspected? <i>Inspection periods must be determined during the risk assessment. Ventilation must be inspected at least once a year.</i>	§ 3 Section 6, §§ 14 up to 17 BetrSichV Appendix 2 BetrSichV T 032 Annex 3 DGUV Information 213-851								
6.20 Are containers and pipelines for hazardous substances labelled according to the regulations? <i>An internal simplified labelling is permissible if hazards are readily recognised by this system.</i>	ASR A1.3 in conjunction with TRGS 201 (simplified labelling) Annex 4 DGUV Information 213-851								
6.21 Are regulations implemented for accidents involving chemicals or incidents as well as the handling of damaged packages?	§ 5 BImSchG §§ 3 et seqq. StörfallV § 10 Section 3 and § 13 Section 5 GefStoffV								
6.22 Does a hand and skin protection plan exist for activities involving hazardous substances?	TRGS 401 A 023								
6.23 Are regulations implemented for activities in oxygen-reduced atmospheres?	DGUV Information 205-006								
6.24 Have there been taken measures for the prevention of mixing-up chemicals? <i>E. g. different couplings, colour coding, dual-control principle, release analysis.</i>	ISSA-03e								



7 Section 7 of Code of Practice A 017e “Hazards related to Fire and Explosion”

Question	Legal Bases	Not applicable	Already established?			Internally organised through ... (e. g. procedural instructions, SOPs, delegation)	Regulations adequate?		Remarks
	Guidance Documents of Accident Insurance Institutions		Yes	No	On a superior level		Yes	No	
7.1 Has an assessment of the fire risk been implemented? Is a concept of fire protection established including updates on request? <i>Classification into normal, increased or high fire risk in order to deduce safeguard measures. The knowledge of characteristic numbers and properties of substances is urgently necessary.</i>	TRGS 800 vfdb 01/01 ASR A2.2								
7.2 Are employees instructed on fire risks in their work area and on behavioural measures in case of fire at least once a year? <i>Use of escape routes, meeting point, emergency exits.</i>	§ 6 Section 1 and 3 ArbStättV A 026								
7.3 Is there a sufficient number of fire extinguishing equipment? <i>The number of fire extinguishing agents must be determined for each working area.</i>	ASR A2.2								
7.4 Is a sufficient number of fire protection assistants assigned and do they regularly participate in further training?	ASR A2.2 DGUV Information 205-003 DGUV Information 205-023								
7.5 Did you ensure that the fire load in the working areas is minimised? Are the requirements of fire protection considered with regard to the storage of chemical agents?	§ 6 Section 2, § 11 GefStoffV TRGS 509 TRGS 510								

Question	Legal Bases	Not applicable	Already established?			Internally organised through ... (e. g. procedural instructions, SOPs, delegation)	Regulations adequate?		Remarks
	Guidance Documents of Accident Insurance Institutions		Yes	No	On a superior level		Yes	No	
7.6 Are hazardous substances stored according to the rules in adequate storage rooms or storage installations (safety storage cabinets)? <i>Requirements of fire protection and joint storage prohibitions must be observed. If necessary the classification into flammable and/or explosive areas have to be considered.</i>	TRGS 509 TRGS 510 M 062 M 063								
7.7 Are safety storage cabinets for the storage of flammable liquids, compressed gas cylinders, compressed cartridges and packages used in working spaces? <i>These are also recommended for the storage of small quantities.</i>	TRGS 510								
7.8 Are explosion risks assessed for working areas? Do explosion risk documents exist for these areas or installations and are these areas marked?	§ 6 Section 9, Annex I No. 1 GefStoffV TRGS 509 TRGS 510 TRGS 720 et seqq. DGUV Regel 113-001 T 050 up to T 054								
7.9 Have the employees been instructed on the measures for explosion protection?	§ 14 GefStoffV A 026								
7.10 Are tests on efficacy of technical measures/ installations and inspections of work equipment in hazardous explosive areas carried out before commissioning and afterwards periodically? <i>Ventilation, inertisation, devices, protection systems, safety, control and regulation facilities, e. g. gas detection equipment.</i>	§ 16 BetrSichV Annex 2, Section 3 BetrSichV DGUV Regel 113-001 T 023								
7.11 Does a permit-to-work-system or a release form exist for open flame operations?	Annex 1 GefStoffV DGUV Regel 100-500 DGUV Information 205-001								

Question	Legal Bases	Not applicable	Already established?			Internally organised through ... (e. g. procedural instructions, SOPs, delegation)	Regulations adequate?		Remarks
	Guidance Documents of Accident Insurance Institutions		Yes	No	On a superior level		Yes	No	
7.12 Has a systematic evaluation of reaction processes been carried out? <i>E. g. HAZOP, PAAG</i>	§ 6 GefStoffV 12. BImSchV R 002 ISSA-01								
7.13 Do the required regulations exist for the handling and storage of explosives? <i>Permission, authorised person, certificate of competence, maximum storage quantity.</i>	§ 7, § 17, §§ 19 et seqq. SprengG SprengTR 310 DGUV Regel 113-008 DGUV Regel 113-017 DGUV Information 213-110								
7.14 Are explosives classified according to danger or storage groups? <i>Check the register of hazardous substances.</i>	§ 17 SprengG § 4 2. SprengV SprengLR DGUV Regel 113-008 DGUV Regel 113-017								
7.15 Are safe and protective distances met for endangered buildings with regard to construction requirements?	§ 24 SprengG § 23 1. SprengV and Attachment 1 of Appendix 2. SprengV SprengLR DGUV Vorschrift 13 DGUV Regel 113-008 DGUV Regel 113-017								
7.16 Do appropriate arrangements exist for the use and storage of any explosive substance, e. g. peroxides? <i>Observe the basic rules for the handling of peroxides.</i>	§ 11 Section 4, Annex III No. 2 GefStoffV DGUV Vorschrift 13 M 001 M 058								
7.17 Are organic peroxides assigned according to their danger to category A to G (CLP Directive) or according to their material throughput to one from four risk groups OP I to OP IV (DGUV Vorschrift 13)?	Annex I Part 2 CLP Directive § 3 DGUV Vorschrift 13 M 001 M 058								

Question	Legal Bases	Not applicable	Already established?			Internally organised through ... (e. g. procedural instructions, SOPs, delegation)	Regulations adequate?		Remarks
	Guidance Documents of Accident Insurance Institutions		Yes	No	On a superior level		Yes	No	
7.18 Are the storage requirements based on these categories/risk groups met? <i>This applies particularly to the storage temperature and safe distances.</i>	Annex I Part 2 CLP Directive § 3 DGUV Vorschrift 13								



8 Section 8 of Code of Practice A 017e “Biological Hazards”

Question	Legal Bases	Not applicable	Already established?			Internally organised through ... (e. g. procedural instructions, SOPs, delegation)	Regulations adequate?		Remarks
	Guidance Documents of Accident Insurance Institutions		Yes	No	On a superior level		Yes	No	
8.1 Does a list of biological agents exist including classifications of risk groups and statements on toxic or sensitising properties, if necessary?	§ 7 Section 2 BioStoffV								
8.2 Has a substitution check been carried out and is the result documented?	§ 4 Section 3 and § 7 Section 1 No. 2 BioStoffV § 13 GenTSV								
8.3 Are the biological agents (viruses, bacteria, fungi, parasites, cell cultures) for targeted activities categorised into one of the four risk groups?	§ 3, § 5 BioStoffV TRBA 460 up to TRBA 468 B 004 up to B 007 and B 009								
8.4 Are appropriate protection levels and safeguard measures determined according to the assigned risk group?	§§ 9 et seqq. BioStoffV Annex II and III BioStoffV TRBA 100 TRBA 120 TRBA 250 TRBA 500 B 002								
8.5 Is a reliable and competent person authorised to consult and support the entrepreneur in complying with the guidelines of the Ordinance of Biological Agents (BioStoffV)? <i>This applies to activities assigned to the protection levels 3 and 4.</i>	§ 10 Section 2 BioStoffV TRBA 200								

Question	Legal Bases	Not applicable	Already established?			Internally organised through ... (e. g. procedural instructions, SOPs, delegation)	Regulations adequate?		Remarks
	Guidance Documents of Accident Insurance Institutions		Yes	No	On a superior level		Yes	No	
8.6 For targeted activities involving the biological agents mentioned above: If necessary, does an appropriate permission exist according to § 15 BioStoffV, a notification according to § 16 BioStoffV and a permission according to § 44 Infektionsschutzgesetz (IfSG)? <i>BioStoffV: notification from protection level 2, permission from protection level 3. IfSG: permission for organisms from risk group 2.</i>	§§ 15 and 16 BioStoffV §§ 44 IfSG B 004 up to B 007 and B 009								
8.7 Are targeted activities with genetically modified organisms (GMO), animals or plants assigned to one out of four safety levels? <i>Basis is the risk evaluation according to GenTG and GenTSV.</i>	§ 7, § 9 GenTG § 5, § 9 GenTSV List of organisms of ZKBS								
8.8 Are safeguard and protection measures for activities involving genetically modified organisms (GMO) or genetic engineering operations with animals and plants determined according to their safety levels?	§§ 10 to 12 GenTSV								
8.9 Are a Biological Safety Officer and a project manager appointed for the operation of a genetic engineering plant? <i>Expert knowledge and professional experience is required.</i>	§ 6 Section 4 GenTG § 29 GenTSV								
8.10 Does the appropriate notification/permission according to BioStoffV exist or the registration/licence according to GenTG and, if necessary, the permission according to Infektionsschutzgesetz (IfSG) and to Tierseuchenerregerverordnung (TierSeuchErV)?	§§ 15,16 BioStoffV §§ 8 to 12 GenTG §§ 44 et seqq. IfSG								

Question	Legal Bases	Not applicable	Already established?			Internally organised through ... (e. g. procedural instructions, SOPs, delegation)	Regulations adequate?		Remarks
	Guidance Documents of Accident Insurance Institutions		Yes	No	On a superior level		Yes	No	
8.11 Are the requirements of the genetic engineering law, the biological agents law and the Infektionsschutzgesetz including animal health regulations observed for activities with and housing of animals which are intentionally infected with biological agents?	§§ 3 et seqq. BioStoffV § 7 GenTG § 11 GenTSV §§ 44 et seqq. IfSG B 012								
8.12 Are working areas with designated zones of protection or safety levels marked and access regulations determined? <i>Access regulations from protection level S2 in Annex II BioStoffV and TRBA 100/120. Letterings Genetic Engineering S1–S3, Bio I–III as well as warning sign W009 from safety level S2.</i>	Annex I, II BioStoffV Attachment 2 GenTSV TRBA 100 TRBA 200 B 002								
8.13 Are safeguard measures determined for non-targeted activities which can lead to contacts with biological agents (viruses, bacteria, fungi, parasites, cell cultures)? <i>Non-targeted activities are e. g.: diagnostics, dealing with animals, sorting of recyclable material, contaminated ventilating systems, cooling lubricants contaminated with microbiological agents, contaminated ground, waste water installations, waste collection and treatment, agriculture.</i>	§ 6 in conjunction with §§ 9 et seqq. BioStoffV TRBA 213 up to TRBA 260								
8.14 Is occupational health care offered (optional health care) or arranged for activities involving biological agents and genetic engineering operations?	Part 2 of Annex ArbMedVV								
8.15 Do risk assessments and appropriate operational instructions based thereon exist for activities according to Biostoffverordnung or Gentechnikgesetz?	§ 14 BioStoffV § 7 GenTG DGUV Information 213-016								

Question	Legal Bases	Not applicable	Already established?			Internally organised through ... (e. g. procedural instructions, SOPs, delegation)	Regulations adequate?		Remarks
	Guidance Documents of Accident Insurance Institutions		Yes	No	On a superior level		Yes	No	
<p>8.16 Are instructions carried out at least once a year as prescribed in Biostoffverordnung or Gentechniksicherheitsverordnung? <i>In accordance to GenTSV an oral instruction is necessary for S2, S3, S4. For S1 a digital instruction is allowed as well. A general consultation on occupational medicine must be part of these instructions.</i></p>	<p>§ 14 Section 2 BioStoffV § 17 GenTSV</p>								
<p>8.17 In case of a pandemic, is it assured that the requirements of the Infektionsschutzgesetz (IfSG) and the resulting regulations thereof will be implemented?</p>	<p>IfSG</p>								



9 Section 9 of Code of Practice A 017e “Hazards related to Special Physical Impacts”

Question	Legal Bases Guidance Documents of Accident Insurance Institutions	Not applicable	Already established?			Internally organised through ... (e. g. procedural instructions, SOPs, delegation)	Regulations adequate?		Remarks
			Yes	No	On a superior level		Yes	No	
9.1 Is the noise exposure evaluated in working areas and for activities? <i>Establish a noise register, if necessary.</i>	§ 4 LärmVibrationsArbSchV TRLV Lärm Part 2 TRLV Lärm Part 3								
9.2 If the action level (85 dB (A)) is exceeded: Is a noise reduction programme elaborated and carried out?	§ 7 LärmVibrationsArbSchV TRLV Lärm Part 3 T 011								
9.3 Are the areas marked where noise exceeds 85 dB (A)? <i>Use the mandatory sign M003 “Use Hearing Protection”.</i>	§ 7 Section 4 LärmVibrationsArbSchV TRLV Lärm Part 3								
9.4 Is occupational health care arranged for employees who are exposed to noise?	Part 3 of Annex ArbMedVV								
9.5 Are the exposure levels of whole-body and hand-transmitted vibrations measured and evaluated?	§ 4 LärmVibrationsArbSchV								
9.6 If the action levels are reached or exceeded: Does a programme exist in order to minimise the exposure to vibration? <i>Example: the use of tools which are low in vibration.</i>	§ 10 LärmVibrationsArbSchV								
9.7 Is occupational health care arranged for employees who are exposed to vibration?	Part 3 of Annex ArbMedVV								

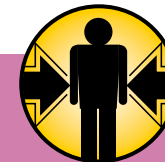
Question	Legal Bases	Not applicable	Already established?			Internally organised through ... (e. g. procedural instructions, SOPs, delegation)	Regulations adequate?		Remarks
	Guidance Documents of Accident Insurance Institutions		Yes	No	On a superior level		Yes	No	
9.8 Are safeguard measures implemented for activities which are carried out when exposed to natural (solar radiation) or artificial UV radiation? <i>Examples: working in the open air or on roofs is prevailing.</i>	§ 5 ArbSchG in conjunction with BKV Annex 1 No. 5103 A 023-1 KB 015 Baustein D 505 of BG Bau								
9.9 Are laser installations used in working areas and are the safety requirements met? <i>Encapsulation, shielding, labelling. Appointment in writing of a Laser Protection Officer for laser classes 3R, 3B or 4.</i>	§§ 5 and 6 OStrV TROS Laser Radiation General Part and 1 to 3								
9.10 Are sources of dangerous incoherent optical radiation operated in working areas and are the relevant safety requirements fulfilled?	TROS IOS								
9.11 Is occupational health care arranged for employees who are exposed to optical radiation?	Part 3 of Annex ArbMedVV								
9.12 Are the safety requirements met in working areas in which installations or plants with ionising radiation (particularly X-ray radiation) are used? <i>Approval, demarcation and marking of danger zones, Radiation Protection Officer, occupational health care according to StrlSchV.</i>	StrlSchV								
9.13 Are regulations implemented for the handling of hot or cold media/surfaces? <i>Marking, operating instructions.</i>									
9.14 Do regulations exist for hot or cold workplaces?	ASR A3.5 DGUV Information 213-002 Appendix 5 A 017								
9.15 Have measures been taken for the prevention of electrostatic charge? <i>E. g. usage of dissipative flooring, potential equalisation.</i>	TRGS 727 T 033								

Question	Legal Bases	Not applicable	Already established?			Internally organised through ... (e. g. procedural instructions, SOPs, delegation)	Regulations adequate?		Remarks
	Guidance Documents of Accident Insurance Institutions		Yes	No	On a superior level		Yes	No	
9.16 Are the safety requirements met for devices and installations which are covered by the Pressure Equipment Directive? <i>Inspections, pressure relief.</i>	§ 8 and Section 4 Annex 2 BetrSichV								



10 Section 10 of Code of Practice A 017e “Mental Stress Factors”

Question	Legal Bases	Not applicable	Already established?			Internally organised through ... (e. g. procedural instructions, SOPs, delegation)	Regulations adequate?		Remarks
	Guidance Documents of Accident Insurance Institutions		Yes	No	On a superior level		Yes	No	
10.1 Are the mental stress factors according to the characteristics of the Guidelines of the Joint German Occupational Safety and Health Strategy (GDA) considered and documented within of the risk assessment?	§ 5 Section 3 ArbSchG GDA Guideline “Psychische Belastung”								
10.2 Are the employees chosen with regard to their individual skills and qualification for the activities? <i>Job profiles, job descriptions.</i>	§ 7 ArbSchG Section 7 DGUV Regulation 1								
10.3 Is it guaranteed that all employees have access to regular qualification measures to the extent required?	ArbSchG DGUV Regulation 1								
10.4 Are the regulations of the Working Time Act (ArbZG) fulfilled? <i>Make sure that the daily working time/weekly working hours and break regulation are fulfilled.</i>	§ 3 and § 7 ArbZG								
10.5 Is it made sure that stresses caused by new types of work (flexibility in view of location and time) are considered in the risk assessment?	GDA-Leitlinie “Psychische Belastung” KB 032								



11 Section 11 of Code of Practice A 017e “Miscellaneous Risk and Stress Factors”

Question	Legal Bases	Not applicable	Already established?			Internally organised through ... (e. g. procedural instructions, SOPs, delegation)	Regulations adequate?		Remarks
	Guidance Documents of Accident Insurance Institutions		Yes	No	On a superior level		Yes	No	
11.1 Do special regulations exist for procurement and operation of vehicles? <i>E. g. driver assistance systems, inspection obligations, instruction of employees, check of driving licenses.</i>	DGUV Vorschrift 70								
11.2 Is it assured that the existing regulations concerning load security are fulfilled?	StVO BetrSichV								
11.3 Is it assured that the existing regulations concerning transport of dangerous goods are fulfilled? <i>These regulations apply partly modified to transports in passenger cars.</i>	ADR A 013 A 014								
11.4 Is it assured that the aspects of occupational safety and health protection for assignments abroad have been considered as part of the risk assessment? <i>E. g. travel medical advice.</i>	Annex Part 4 ArbMedVV (occupational medical prevention, medical advice before travelling)								
11.5 Are working materials and plants protected against cyberattacks in such a way that they can be operated safely? <i>Safety-relevant incidents must be reported to the Federal Office for Information Security (Bundesamt für Sicherheit in der Informationstechnik).</i>	IT-Sicherheitsgesetz								

Question	Legal Bases	Not applicable	Already established?			Internally organised through ... (e. g. procedural instructions, SOPs, delegation)	Regulations adequate?		Remarks
	Guidance Documents of Accident Insurance Institutions		Yes	No	On a superior level		Yes	No	
11.6 Have special hazards related to activities with animals been noted in the risk assessment?	§ 5 ArbSchG Section 3 DGUV Regulation 1 B 012								
11.7 Have special hazards related to activities with plants and plant products been noted in the risk assessment?	§ 5 ArbSchG Section 3 DGUV Regulation 1								

Appendix: Bibliography

Laws, ordinances, and legal text of the Accident Prevention Regulations are **binding legal norms**. Deviations require permission of the competent authority or the competent Accident Insurance Institution respectively (e. g. German Social Accident Insurance Institution). Issuing a special dispensation requires compensation measures at the same safety level at least.

It can be deviated from Technical Rules affiliated to ordinances, execution instructions of Accident Prevention Regulations (DGUV Regulations) and DGUV Rules if it is documented in the risk assessment that the same safety level can be obtained otherwise. DGUV Information, Codes of Practice, and DIN-/VDE-Standards **are no binding legal norms**. These are regarded as important standards of evaluation and rules of technology that do not need to comply with if the same safety level can be obtained otherwise.

Sources of Information in the Internet

Codes of Practice of the German Social Accident Insurance Institution for the Raw Materials and Chemical Industry (Berufsgenossenschaft Rohstoffe und chemische Industrie – BG RCI) as well as a broad part of the occupational safety and health regulations issued by the German government and the German Social Accident Insurance Institutions (ca. 1,700 files – nearly all in German) can be found in the Compendium for Occupational Safety and Health of BG RCI (“Kompendium Arbeitsschutz”). The use is not free of charge. A free limited trial is available.

For further information see www.kompendium-as.de.

The homepage of BG RCI (www.bgrci.de/praevention) and fachwissen.bgrci.de offer a huge amount of relevant information. Detailed information about publications and media of BG RCI and mail order: medienshop.bgrci.de

The downloadcenter of BG RCI offers selected Codes of Practice, appendices and forms from Codes of Practice and DGUV Rules as well as additional guidance documents: downloadcenter.bgrci.de

Accident Prevention Regulations (Unfallverhütungsvorschriften), DGUV Rules (DGUV Regeln), DGUV Principles (DGUV Grundsätze) and many DGUV Informational Publications (DGUV Informationen) are available at the homepage of the German Social Accident Insurance (Deutsche Gesetzliche Unfallversicherung): publikationen.dguv.de

1. EU Publications in the Official Journal of the European Union

Supply Source: Bundesanzeiger-Verlag, Postfach 10 05 34, 50445 Köln

Free Download at <http://eur-lex.europa.eu/de/index.htm>

- 1 Machine Directive: Directive 2006/42/EC of the European Parliament and of the Council of 17 May 2006 on machinery and amending Directive 95/16/EC (recast) (for machines placed on the market since 29.12.2009).
- 2 Machine Directive: Directive 98/37/EC of the European Parliament and of the Council of 22 June 1998 on the approximation of the laws of the Member States relating to machines (for machines placed on the market between 1.1.1995 and 28.12.2009).
- 3 CLP Regulation: Regulation (EC) No. 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labelling and packaging of substances and mixtures, for amending and repealing the Directive 67/548/EEC and 1999/45/EC and amending the Regulation (EC) No. 1907/2006.
- 4 REACH: Regulation (EC) No. 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), establishing a Chemicals Agency, amending Directive 1999/45/EC and repealing Council Regulation (EEC) No. 793/93, Commission Regulation (EC) No. 1488/94 as well as Council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC.

2. Laws, Regulations, Technical Rules

Supply Sources: Bookshops

Free Download at www.gesetze-im-internet.de (Laws and Regulations) or www.baua.de (Technical Rules)

- 5 Arbeitszeitgesetz (ArbZG)
- 6 Verordnung zur arbeitsmedizinischen Vorsorge (ArbMedVV)
- 7 Verordnung über das Arbeiten mit Tierseuchenerregern (Tierseuchenerreger-Verordnung)
- 8 Gesetz über das Bundesamt für Sicherheit in der Informationstechnik (BSI-Gesetz – BSIg)
- 9 Gesetz über die Durchführung von Maßnahmen des Arbeitsschutzes zur Verbesserung der Sicherheit und des Gesundheitsschutzes der Beschäftigten bei der Arbeit (Arbeitsschutzgesetz – ArbSchG)
- 10 Gesetz zur Verhütung und Bekämpfung von Infektionskrankheiten beim Menschen (Infektionsschutzgesetz – IfSG)
- 11 Verordnung über Arbeitsstätten (Arbeitsstättenverordnung – ArbStättV) including Technical Rules for Workplaces (ASR), particularly:
 - 12 ASR V3a.2: Barrierefreie Gestaltung von Arbeitsstätten
 - 13 ASR A1.2: Raumabmessungen und Bewegungsflächen
 - 14 ASR A1.3: Sicherheits- und Gesundheitsschutzkennzeichnung
 - 15 ASR A1.5: Fußböden
 - 16 ASR A1.6: Fenster, Oberlichter, lichtdurchlässige Wände
 - 17 ASR A1.7: Türen und Tore

- 18 ASR A1.8: Verkehrswege
- 19 ASR A2.1: Schutz vor Absturz und herabfallenden Gegenständen, Betreten von Gefahrenbereichen
- 20 ASR A2.2: Maßnahmen gegen Brände
- 21 ASR A2.3: Fluchtwege und Notausgänge
- 22 ASR A3.4: Beleuchtung
- 23 ASR A3.5: Raumtemperatur
- 24 ASR A3.6: Lüftung
- 25 ASR A4.1: Sanitarräume
- 26 Technische Regeln zur Arbeitsschutzverordnung zu künstlicher optischer Strahlung (TROS) mit TROS Inkohärente Optische Strahlung (TROS IOS) und TROS Laserstrahlung
- 27 Agreement concerning the International Carriage of Dangerous Goods by Road (ADR)
- 28 Gesetz über Betriebsärzte, Sicherheitsingenieure und andere Fachkräfte für Arbeitssicherheit (Arbeitssicherheitsgesetz – ASiG)
- 29 Gesetz über explosionsgefährliche Stoffe (Sprengstoffgesetz – SprengG) mit Verordnungen zum Sprengstoffgesetz (SprengV) und Sprengstofflager-Richtlinien (SprengLR), insbesondere:
- 30 Erste Verordnung zum Sprengstoffgesetz (1. SprengV)
- 31 Zweite Verordnung zum Sprengstoffgesetz (2. SprengV)
- 32 SprengLR 210: Bauweise und Einrichtung der Lager für Sprengstoffe und Zündmittel
- 33 SprengLR 220: Richtlinie Bauweise und Einrichtung der Lager für pyrotechnische Sätze und Gegenstände
- 34 Gesetz zur Regelung der Gentechnik (Gentechnikgesetz – GenTG)
- 35 Verordnung über die Sicherheitsstufen und Sicherheitsmaßnahmen bei gentechnischen Arbeiten in gentechnischen Anlagen (Gentechnik-Sicherheitsverordnung – GenTSV)
- 36 Bekanntmachung der Liste risikobewerteter Spender- und Empfängerorganismen für gentechnische Arbeiten vom 5. Juli 2013 (Download: www.bvl.bund.de → Gentechnik → Zentrale Kommission für die Biologische Sicherheit → Organismenliste)
- 37 Ordinance concerning health and safety on building sites (Baustellenverordnung – BaustellV) including Rules for Occupational Safety and Health at Construction Sites (RAB), particularly:
- 38 RAB 01: Subject, Origin, Structure, Application and Coming into Effect of RABs
- 39 RAB 10: Definitions (Specification of Terms in the Construction Sites Ordinance BaustellV)
- 40 RAB 25: Working in Compressed Air (Specification of the Compressed Air Ordinance)
- 41 RAB 30: Suitable Co-ordinator (Specification of Section 3 BaustellV)
- 42 RAB 31: Safety and Health Plan - S&H Plan
- 43 RAB 32: Document for Subsequent Work (specification under section 3 (2) No. 3 BaustellV)
- 44 RAB 33: General Principles according to Section 4 of the Occupational Safety and Health Act during application of the Construction Sites Ordinance
- 45 Building Codes of the Federal States (Source: www.bauministerkonferenz.de)
- 46 Muster-Richtlinie über den baulichen Brandschutz im Industriebau (Muster-Industriebau-Richtlinie – MIndBauRL) (Source: www.bauministerkonferenz.de)
- 47 Verordnung über Sicherheit und Gesundheitsschutz bei der Verwendung von Arbeitsmitteln (Betriebssicherheitsverordnung – BetrSichV) including Technical Rules for Industrial Safety and Health (TRBS), particularly:
- 48 TRBS 1201: Prüfungen und Kontrollen von Arbeitsmitteln und überwachungsbedürftigen Anlagen
- 49 TRBS 1203: Zur Prüfung befähigte Personen
- 50 Betriebsverfassungsgesetz (BetrVG)
- 51 Verordnung über Sicherheit und Gesundheitsschutz bei Tätigkeiten mit Biologischen Arbeitsstoffen (Biostoffverordnung – BioStoffV) and Technical Rules for Biological Agents (TRBA), particularly
- 52 TRBA 100: Protective Measures for Activities Involving Biological Agents in Laboratories
- 53 TRBA 120: Versuchstierhaltung
- 54 TRBA 200: Requirements for professional expertise in accordance with the Biological Agents Ordinance
- 55 TRBA 213: Abfallsammlung: Schutzmaßnahmen
- 56 TRBA 214: Anlagen zur Behandlung und Verwertung von Abfällen
- 57 TRBA 220: Safety and Health for Activities Involving Biological Agents in Sewage Plants
- 58 TRBA 230: Protective Measures for Activities Involving Biological Agents in Agriculture and Forestry and Comparable Activities
- 59 TRBA 240: Protective measures for activities involving microbially contaminated archival materials
- 60 TRBA 250: Biological Agents in Health Care and Welfare Facilities
- 61 TRBA 260: Schutzmaßnahmen bei Tätigkeiten mit biologischen Arbeitsstoffen in der Veterinärmedizin und bei vergleichbaren Tätigkeiten
- 62 TRBA 460: Einstufung von Pilzen in Risikogruppen
- 63 TRBA 462: Einstufung von Viren in Risikogruppen
- 64 TRBA 464: Einstufung von Parasiten in Risikogruppen
- 65 TRBA 466: Classification of Prokaryotes (Bacteria and Archaea) into Risk Groups
- 66 TRBA 468: Liste der Zelllinien und Tätigkeiten mit Zellkulturen
- 67 List of organisms of the Central Commission for Biological Safety (ZKBS) at: https://www.bvl.bund.de/SharedDocs/Downloads/06_Gentechnik/register_datenbanken/organismenliste_xls.html
- 68 Gesetz zum Schutz vor schädlichen Umwelteinwirkungen durch Luftverunreinigungen, Geräusche, Erschütterungen und ähnliche Vorgänge (Bundes-Immissionsschutzgesetz – BImSchG) mit Verordnungen zur Durchführung des Bundes-Immissionsschutzgesetzes (BImSchV), insbesondere:
- 69 Zwölfte Verordnung zur Durchführung des Bundes-Immissionsschutzgesetzes (Störfall-Verordnung – 12. BImSchV)
- 70 Straßenverkehrs-Ordnung (StVO)
- 71 SprengTR 310: Sprengarbeiten
- 72 Verordnung zum Schutz vor Gefahrstoffen (Gefahrstoffverordnung – GefStoffV) including Technical Rules for Hazardous Substances (TRGS), particularly:
- 73 TRGS 201: Einstufung und Kennzeichnung bei Tätigkeiten mit Gefahrstoffen
- 74 TRGS 400: Risk Assessment for Activities Involving Hazardous Substances
- 75 TRGS 401: Risk Resulting from Skin Contact – Identification, Assessment, Measures

- A**
- 76 TRGS 402: Identification and assessment of the risks from activities involving hazardous substances: inhalation exposure
 - 77 TRGS 509: Lagern von flüssigen und festen Gefahrstoffen in ortsfesten Behältern sowie Füll- und Entleerstellen für ortsbewegliche Behälter
 - 78 TRGS 510: Storage of Hazardous Substances in Non-stationary Containers
 - 79 TRGS 555: Working Instruction and Information for Workers
 - 80 TRGS 600: Substitution
 - 81 TRGS 720: Gefährliche explosionsfähige Atmosphäre – Allgemeines
 - 82 TRGS 721: Gefährliche explosionsfähige Atmosphäre – Beurteilung der Explosionsgefährdung
 - 83 TRGS 722: Vermeidung oder Einschränkung gefährlicher explosionsfähiger Atmosphäre
 - 84 TRGS 723: Gefährliche explosionsfähige Gemische – Vermeidung der Entzündung gefährlicher explosionsfähiger Gemische
 - 85 TRGS 724: Gefährliche explosionsfähige Gemische – Maßnahmen des konstruktiven Explosionsschutzes, welche die Auswirkung einer Explosion auf ein unbedenkliches Maß beschränken
 - 86 TRGS 725: Gefährliche explosionsfähige Atmosphäre – Mess-, Steuer- und Regeleinrichtungen im Rahmen von Explosionsschutzmaßnahmen
 - 87 TRGS 727: Vermeidung von Zündgefahren infolge elektrostatischer Aufladungen
 - 88 TRGS 800: Fire Protection Measures
 - 89 Gesetz zum Schutz der arbeitenden Jugend (Jugendarbeitsschutzgesetz – JArbSchG)
 - 90 Verordnung zum Schutz der Beschäftigten vor Gefährdungen durch Lärm und Vibrationen (Lärm- und Vibrations-Arbeitsschutzverordnung – LärmVibrationsArbSchV) including Technical Rules belonging to the Lärm- und Vibrations-Arbeitsschutzverordnung (TRLV), particularly:
 - 91 TRLV Lärm: Teil Allgemeines
 - 92 TRLV Lärm: Teil 1 Beurteilung der Gefährdung durch Lärm
 - 93 TRLV Lärm: Teil 2 Messung von Lärm
 - 94 TRLV Lärm: Teil 3 Lärmschutzmaßnahmen
 - 95 Gesetz zum Schutze der erwerbstätigen Mutter (Mutterschutzgesetz – MuSchG)
 - 96 Verordnung über Sicherheit und Gesundheitsschutz bei der manuellen Handhabung von Lasten bei der Arbeit (Lastenhandhabungsverordnung – LasthandhabV)
 - 97 Verordnung über Sicherheit und Gesundheitsschutz bei der Benutzung persönlicher Schutzausrüstungen bei der Arbeit (PSA-Benutzungsverordnung – PSA-BV)

3. Accident Prevention Regulations (DGUV Regulations), DGUV Rules, DGUV Principles, DGUV Informative Publications, Codes of Practice, and Media of BG RCI

Supply Sources:

Selected papers: Berufsgenossenschaft Rohstoffe und chemische Industrie, Postfach 10 14 80, 69004 Heidelberg, medienshop.bgrci.de or Jedermann-Verlag GmbH, Postfach 10 31 40, 69021 Heidelberg, www.jedermann.de, verkauf@jedermann.de

Member companies of BG RCI can obtain the papers listed free of charge (until the next source is cited), as long as the quantity is appropriate to the size of company. Some publications are available at downloadcenter.bgrci.de (free download).

All other publications: Deutsche Gesetzliche Unfallversicherung e. V., Glinkastraße 40, 10117 Berlin, www.dguv.de

Free download at publikationen.dguv.de

- 98 DGUV Regulation 1: Principles of Prevention
- 99 DGUV Regulation 2: Occupational physicians and OSH professionals
- 100 DGUV Vorschrift 3: Elektrische Anlagen und Betriebsmittel
- 101 DGUV Vorschrift 13: Organische Peroxide
- 102 DGUV Vorschrift 15: Elektromagnetische Felder
- 103 DGUV Vorschrift 21: Abwassertechnische Anlagen
- 104 DGUV Vorschrift 52: Krane
- 105 DGUV Vorschrift 68: Flurförderzeuge
- 106 DGUV Vorschrift 70: Fahrzeuge
- 107 DGUV Vorschrift 73: Schienenbahnen
- 108 DGUV Regel 100-001: Grundsätze der Prävention
- 109 DGUV Regel 103-011: Arbeiten unter Spannung an elektrischen Anlagen und Betriebsmitteln
- 110 DGUV Regel 112-139: Einsatz von Personen-Notsignal-Anlagen
- 111 DGUV Regel 113-001: Explosionsschutz-Regeln (EX-RL)
- 112 DGUV Regel 113-004: Behälter, Silos und enge Räume Teil 1: Arbeiten in Behältern, Silos und engen Räumen
- 113 DGUV Regel 113-017: Tätigkeiten mit Explosivstoffen
- 114 DGUV Information 203-001: Sicherheit bei Arbeiten an elektrischen Anlagen
- 115 DGUV Information 203-004: Einsatz von elektrischen Betriebsmitteln bei erhöhter elektrischer Gefährdung
- 116 DGUV Information 203-005: Auswahl und Betrieb ortsveränderlicher elektrischer Betriebsmittel nach Einsatzbedingungen
- 117 DGUV Information 203-006: Auswahl und Betrieb elektrischer Anlagen und Betriebsmittel auf Bau- und Montagestellen
- 118 DGUV Information 204-022: Erste Hilfe im Betrieb
- 119 DGUV Information 205-003: Aufgaben, Qualifikation, Ausbildung und Bestellung von Brandschutzbeauftragten
- 120 DGUV Information 205-006: Arbeiten in sauerstoffreduzierter Atmosphäre
- 121 DGUV Information 205-023: Brandschutzhelfer
- 122 DGUV Information 208-016: Handlungsanleitung für den Umgang mit Leitern und Tritten
- 123 DGUV Information 211-006: Sicherheit und Gesundheitsschutz durch Koordinieren

- 124 DGUV Information 213-002: Hitzearbeit, Erkennen – beurteilen – schützen
- 125 DGUV Information 213-016: Betriebsanweisungen nach der Biostoffverordnung
- 126 DGUV Information 213-110: Sprengarbeiten
- 127 DGUV Information 213-851: Working Safely in Laboratories – Basic Principles and Guidelines
- 128 Merkblatt A 002: Gefahrgutbeauftragte
- 129 Merkblatt A 003: Suchtmittelkonsum im Betrieb – Risiken erkennen, vorbeugen und aktiv werden
- 130 Merkblatt A 006: Verantwortung im Arbeitsschutz – Rechtspflichten, Rechtsfolgen, Rechtsgrundlagen
- 131 Merkblatt A 008: Persönliche Schutzausrüstungen
- 132 Merkblatt A 009: Zusammenarbeit im Betrieb – Sicherheitstechnisches Koordinieren
- 133 Merkblatt A 010: Betriebsanweisungen für Tätigkeiten mit Gefahrstoffen
- 134 Merkblatt A 013: Beförderung gefährlicher Güter
- 135 Merkblatt A 014: Gefahrgutbeförderung im PKW und Kleintransporter
- 136 Code of Practice A 016e: Risk Assessment – Seven Steps to the Goal
- 137 Code of Practice A 017e: Risk Assessment – Hazard Catalogue
- 138 Merkblatt A 018: Betriebsärzte und Fachkräfte für Arbeitssicherheit – Regelbetreuung in Betrieben mit mehr als 10 Beschäftigten
- 139 Code of Practice A 020e: Field Sales Force incl. Hazard Catalogue and 10 Leaflets
- 140 Merkblatt A 023-1: Arbeiten im Freien – Gefährdung durch Sonneneinstrahlung
- 141 Merkblatt A 026: Gefährdungsorientiertes Unterweisen
- 142 Merkblatt A 027: Mutterschutz im Betrieb
- 143 Merkblatt A 027-1: Beruf und Schwangerschaft – Arbeitsschutzinfos für Mitarbeiterinnen
- 144 Merkblatt B 002: Biologische Laboratorien – Ausstattung und organisatorische Maßnahmen
- 145 Merkblatt B 004: Viren – Einstufung biologischer Arbeitsstoffe
- 146 Merkblatt B 005: Parasiten – Einstufung biologischer Arbeitsstoffe; Besondere Schutzmaßnahmen für Tätigkeiten mit Parasiten
- 147 Merkblatt B 006: Prokaryonten (Bacteria und Archaea) – Einstufung biologischer Arbeitsstoffe
- 148 Merkblatt B 007: Pilze – Einstufung biologischer Arbeitsstoffe
- 149 Merkblatt B 009: Zellkulturen – Einstufung biologischer Arbeitsstoffe
- 150 Merkblatt B 012: Versuchstierhaltung
- 151 Merkblatt M 001: Organische Peroxide
- 152 Merkblatt M 053: Arbeitsschutzmaßnahmen bei Tätigkeiten mit Gefahrstoffen
- 153 Merkblatt M 058: Organische Peroxide – Antworten auf häufig gestellte Fragen
- 154 Merkblatt M 062: Lagerung von Gefahrstoffen
- 155 Merkblatt M 063: Lagerung von Gefahrstoffen – Antworten auf häufig gestellte Fragen
- 156 Merkblatt T 011: Wissenswertes über Lärm
- 157 Code of Practice T 023e: Gas Detection Equipment for Explosion Protection – Use and Operation
- 158 Merkblatt T 032: Laborabzüge – Bauarten und sicherer Betrieb
- 159 Merkblatt T 033: Vermeidung von Zündgefahren infolge elektrostatischer Aufladungen
- 160 Merkblatt T 044: Bildschirmarbeitsplätze, mit Gefährdungskatalog, mit Checkliste CHL 002
- 161 Merkblatt T 050: Explosionsschutz an Maschinen – Antworten auf häufig gestellte Fragen
- 162 Merkblatt T 051: Elektrostatik – Antworten auf häufig gestellte Fragen
- 163 Merkblatt T 052: Brand- und Explosionsgefahren – Eine Begleitbroschüre zum Experimentalvortrag
- 164 Merkblatt T 053: Entzündbare Flüssigkeiten – Antworten auf häufig gestellte Fragen
- 165 Merkblatt T 054: Brennbare Stäube – Antworten auf häufig gestellte Fragen
- 166 Merkblatt R 002: Maßnahmen der Prozesssicherheit in verfahrenstechnischen Anlagen
- 167 KB 015: Arbeiten im Freien - Gefährdung durch Sonneneinstrahlung
- 168 KB 024-1: Krebserzeugende, keimzellmutagene und reproduktionstoxische Stoffe – Grundlagen
- 169 KB 024-2: Expositionsverzeichnis Beschäftigter bei gefährdenden Tätigkeiten mit krebserzeugenden und keimzellmutagenen Stoffen
- 170 KB 032: Corona-Pandemie – Psychische Belastungen
- 171 KB 035: LOCKOUT/TAGOUT, Sicherheit bei der Instandhaltung – mit System
- 172 Praxishilfe-Ordner: Arbeitsschutz mit System
- 173 Praxishilfe-Ordner: Aus Arbeitsunfällen lernen
- 174 Publication ISSA-01: Das PAAG-/HAZOP-Verfahren und weitere praxisbewährte Methoden
- 175 Publication ISSA-03e: Misidentification of Chemicals

4. DIN/EN Standards/VDE Regulations

Supply Sources: Beuth Verlag GmbH, Burggrafenstraße 6, 10787 Berlin, www.din.de/beuth or VDE-Verlag GmbH, Bismarckstraße 33, 10625 Berlin, www.vde-verlag.de

- 176 DIN ISO 45001:2018-06, Managementsysteme für Sicherheit und Gesundheit bei der Arbeit – Anforderungen mit Anleitung zur Anwendung (ISO 45001:2018)
- 177 DIN VDE 0150-100:2015-10, Betrieb von elektrischen Anlagen – Teil 100: Allgemeine Festlegungen
- 178 DIN VDE 1000-10:2009-01, Anforderungen an die im Bereich der Elektrotechnik tätigen Personen

5. Other Publications

Supply Source: Vereinigung zur Förderung des deutschen Brandschutzes e.V., Download at www.vfdb.de

- 179 vfdb-Richtlinie 01/01: Brandschutzkonzept

Supply Source: Free Download at www.gda-portal.de

- 180 Guideline “Gefährdungsbeurteilung und Dokumentation” of Joint German Occupational Safety and Health Strategy (GDA)
- 181 Guideline “Beratung und Überwachung bei psychischer Belastung am Arbeitsplatz” of Joint German Occupational Safety and Health Strategy (GDA)

Supply Source: BG BAU, Berufsgenossenschaft der Bauwirtschaft, Hildegardstraße 29/30, 10715 Berlin, www.bgbau.de → Mediacenter

- 182 Baustein – Gesundheitsschutz D 505: Gefährdung durch UV-Strahlung, Hitze und Kälte

Supply Source: Bundesanstalt für Arbeitsschutz und Arbeitsmedizin, Friedrich-Henkel-Weg 1–2, 544149 Dortmund

- 183 SARS-CoV-2 Occupational Health and Safety Regulation (<https://www.baua.de/DE/Angebote/Rechtstexte-und-Technische-Regeln/Regelwerk/AR-CoV-2/AR-CoV-2.html>)

The paper at hand is focussed on essential items of individual regulations and rules, and for this reason it does not mention all the measures required for a particular case. Moreover, the state of the art or the legal basis may have changed since the Code of Practice was issued.

This paper has been compiled with great care. However, this does not absolve the employer from the duty and responsibility of checking the information to be complete, correct and up to date.

The Act on the Protection at Work uses the term “employer”, the Social Security Code VII and the Accident Prevention Regulations of the Accident Insurance Institutions say “entrepreneur”. Both terms are not completely identical, because an entrepreneur does not necessarily employ workers. This fact is irrelevant for the topic treated in this paper, and the term “entrepreneur” is used here.

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