

This table summarises the recommendations of the Subcommittee "Laboratories" of the "Raw materials and chemical industry" Expert Committee of the DGUV how frequently periodic inspections should be carried out on laboratory equipment as well as the basic guidelines set forth in state regulations and the regulations of the German Social Accident Insurance Institution and also provides further information on the inspection scope. For more information, see also Annex 3 of the DGUV Information 213-851, in particular Table 6, which specifies the minimum requirements for inspectors (explanations for A, B, C, D, E, F) as well as chapter 8 and further references to special laboratory equipment of the DGUV Information 213-086 "Biological laboratories - Equipment and organisational measures" of the Subcommittee "Biological Agents" of the "Raw materials and chemical industry" Expert Committee of the DGUV.

As a general rule, a visual inspection and a simple functional test must be carried out by trained persons on all equipment prior to use. The scope and frequency of the inspections are based on the manufacturer's specifications (TRBS 1201 (Technical Rules for Operational Safety)). Inspections of all electrical systems and equipment must be performed according to DGUV Regulation 3 or DGUV Regulation 4.

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Type of test	Visual inspection	Functional test	Mechanical test	Measurement	Electrical test	Suggestions / requirements / guidelines for maximum periods between inspections	Basis	Minimum requirement for inspectors (definition of "qualified person" in BetrSichV (Ordinance on Industrial Safety and Health) § 2 (6) and TRBS 1203)
GENERAL INFORMATION								
applicable to all equipment	X	X				daily or prior to each use	BetrSichV § 4 (5) Sentence 3; BetrSichV § 3 (6); BetrSichV § 14 (2); TRBS 1201, esp. Supplement "Prüfanforderungen für gängige Arbeitsmittel" (Inspection requirements for typical equipment), Table 3	qualified person (A, B, C, D): any trained user
applicable to all equipment	X	x	x	x	x	annual inspection if used normally (single-shift operation)	BetrSichV § 14 (2); TRBS 1201 Supplement "Prüfanforderungen für gängige Arbeitsmittel" (Inspection requirements for typical equipment), Table 2	qualified person (B, C, D, E, F)
protective and safety mechanisms on equipment	X	x				regularly	BetrSichV § 4 (5) Sentence 3	qualified person (A, B, C, D): any trained user

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fixed electrical equipment in laboratories (see DIN VDE 0100-200 and DIN VDE 0100 Group 700; installations, including e.g. computers and screens, general information technology devices, freezers, electrical equipment on fume hoods, larger electrical devices that are not moved and are not exposed to harmful atmospheres, e.g. fixed analysis instruments ...)					x	every 4 years	guideline according to DGUV Regulation 3 / DGUV Regulation 4 (Table 1A); according to TRBS 1201 Supplement "Prüfanforderungen für gängige Arbeitsmittel" (Inspection requirements for typical equipment), Table 2 further information on organisation and performance: DGUV Information 203-049 DGUV Information 203-070 DGUV Information 203-071	qualified electrician
non-stationary electrical equipment in laboratories (see DIN VDE 0100-200 and DIN VDE 0100 Group 700; including private electrical appliances: mobile laboratory equipment, laptops with connecting cables, mains-operated devices, extension and connecting cables, heating devices, measuring devices, table lamps, rotary stirrers, rotary evaporators ...)		x			x	biannually annually	guideline according to DGUV Regulation 3/DGUV Regulation 4 (Table 1B); according to TRBS 1201 Supplement "Prüfanforderungen für gängige Arbeitsmittel" (Inspection requirements for typical equipment), Table 2 further information on organisation and performance: DGUV Information 203-049 DGUV Information 203-070 DGUV Information 203-071	qualified electrician (person trained in electrical work)

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workplace waste	x					annually	DGUV Information 213-851 Section 4.16.2	qualified person (A, B, C): trained user
installations/equipment in potentially explosive atmospheres --- equipment, protective systems, safety, controlling and regulating devices according to Directive 2014/34/EU including their connecting systems as components of an installation; --- ventilation systems, fume hoods, gas alarm systems and inerting systems		x	x	x	x	every 6 years --- every 3 years --- annually	BetrSichV Annex 2 Section 3 No. 5.1, BetrSichV Annex 2 Section 3 No. 5.4 BetrSichV Annex 2 Section 3 No. 5.2 BetrSichV Annex 2 Section 3 No. 5.3	qualified person according to BetrSichV Annex 2 Section 3 No. 3
SPECIFIC EQUIPMENT								
fume hoods		x				every working day	DGUV Information 213-851, Section 7.3; Handlungsanleitung zur Abzugsprüfung der BG Chemie (Fume hoods inspection guidelines of BG Chemie); BG RCI Information Sheet T 032 Laborabzüge - Bauarten und sicherer Betrieb (Laboratory fume hoods - types and safe operation) (DGUV Information 213-857)	qualified person (A, B, C, D, E): user, trained in the operation of fume hoods and their functions

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fume hoods, general			x	x		annually	DGUV Information 213-851, Section 7.3; Fume hoods inspection guidelines of BG Chemie; BG RCI Information Sheet T 032 Laborabzüge - Bauarten und sicherer Betrieb (laboratory fume hoods - types and safe operation) (DGUV Information 213-857); on-site test methods: DIN EN 14175-4	qualified person (B, C, D, E): competent person (see BG Chemie guidelines); requirement: completion of fume hoods manufacturer training or equivalent knowledge from professional experience
fume hoods (radionuclide fume hoods), with filtration equipment		x		x		acceptance test after installation, prior to start-up	DIN 25466:2012-08, Section 9: Nachweis der einwandfreien Lüftungstechnischen Funktion (verification of correct ventilation function)	qualified person (B, C, D, E): competent person (see Handlungsanleitung zur Abzugsprüfung der BG Chemie (Fume hoods inspection guidelines of BG Chemie)); requirement: completion of fume hoods manufacturer training or equivalent knowledge from professional experience
recirculating fume hoods or fume hoods with filtration systems/recirculating air extraction systems with filter/ ductless filtering fume enclosures			x	x		annually	filtration equipment according to the manufacturer's specifications; DIN 12927:1995-10: Laboreinrichtungen - Absaugboxen mit Luftrückführung (Laboratory furniture - ductless filtering fume enclosures); DGUV Information 213-851, Section 6.3.2	qualified person (B, C, D, E): competent person (see Handlungsanleitung zur Abzugsprüfung der BG Chemie (Fume hoods inspection guidelines of BG Chemie)); requirement: completion of fume hoods manufacturer training or equivalent knowledge from professional experience
respiratory protection	x					prior to each use	DGUV Rule 112-190 Section 3.2.7; DGUV Rule 112-190 Section 3.2.12	qualified person (B, C, D, E); visual inspection by trained user (also A)
respiratory protection			x			maintenance and inspection periods according to the manufacturer's specifications	DGUV Rule 112-190 Section 3.3	qualified person (B, C, D, E): person competent in this area, e.g. following manufacturer training, experience working with respiratory protection equipment

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respiratory protection - bottles for respiratory protection devices			x	x		every 5 years	BetrSichV Annex 2 Section 4 No. 6.9; DGUV Rule 112-190 Section 3.3	authorised inspection agencies, experts (F)
eye protection	x					prior to each use	DGUV Rule 112-192 Section 3.3.1.1	qualified person (A, B, C, D, E): user trained in the use of the protective equipment, and in the specifications of its condition
autoclaves (test autoclaves)	x					after each use (cleaned and in reusable condition) and periodically	BetrSichV § 14 (2) or § 16; BetrSichV Annex 2 Section 4 No. 6.24.2	qualified person (B, C, D, E): competent person, experience working with autoclaves
			x			annually (according to the manufacturer's specifications)	BetrSichV § 14 (2) or BetrSichV § 16; BetrSichV Annex 2 Section 4 No. 5.8 and 6.24.1 (if pressure x contents > 100 bar x L); TRBS 1201 Part 2 Section 3.5	authorised inspection agencies, experts (F) (if pressure x contents > 100 bar x L); see BetrSichV Annex 2 Section 4 No. 5.9
autoclaves: safety devices (alarm devices instead of devices for detecting and limiting pressure and temperature), e.g. on autoclaves for sterilisation	x	x				annually (for pressure equipment at risk of overheating); otherwise every 2 years (according to the manufacturer's specifications)	BetrSichV § 4 (5); TRBS 1201 Part 2 Section 3.5; TRBS 1201 Supplement Table 2 and Table 3	qualified person (B, C, D, E): competent person, technical staff member with inspection experience and regulatory knowledge

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autoclaves for sterilisation (steam boiler according to No. 2.1 a) Annex 2 Section 4 BetrSichV for internal steam generation; pressure vessels according to No. 2.1 b) Annex 2 Section 4 BetrSichV for external steam generation)	X	X	X	X		depending on the operating mode (volume and pressure), "steam boiler" or "pressure vessel"; steam boilers: e.g. annual external inspection pressure vessels: e.g. external inspection every 2 years	BetrSichV § 14 (2) or BetrSichV § 16; BetrSichV Annex 2 Section 4 No 5.8 Table 1; DIN EN 13060	qualified person (pressure installations) according to BetrSichV Annex 2 Section 4 No. 3 and authorised inspection agencies, experts (F), depending on the inspection group and mode of operation: steam boilers according to BetrSichV Annex 2 Section 4 No. 5.9 Table 2 pressure vessels according to BetrSichV Annex 2 Section 4 No 5.9 Table 4
gasifiers for sterilisation and disinfection	X	X	X	X		annually	TRGS 513 Sections 5.1.2 and 5.4.6 (2); DIN 58948 Part 7	qualified person (D, E): competent person, technical staff member with experience in inspections and knowledge of regulations
fire alarm systems			X			complete inspection every 3 years; quarterly on-site inspection	inspection regulations for safety installations of the federal states of Germany (e.g. SPrüfV in Bavaria, § 2 (2); PrüfVO NRW § 2 (1) ...); ASR A2.2 Item 6.3; reference in VDE 0833; DIN 14675 Annex O	see the specifications set forth in the applicable inspection regulation (e.g. Bavaria: expert inspector for safety-related systems and installations according to § 1 Sentence 2 No. 3 PrüfVBau)
fire protection flaps and other installations (flues, etc.)		X	X			complete inspection every 3 years; biannual inspection	inspection regulations for safety installations of the federal states of Germany (e.g. SPrüfV Bavaria, § 2 (4)); VDMA maintenance information No. 8; VDMA 24176 and VDMA 24186 Part 7; DIN EN 15650:2010	qualified person (D, E): competent person, technical staff member with inspection experience and regulatory knowledge; see also the specifications set forth in the applicable inspection regulation

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residual current device (RCD, ELCB)		x				every 6 months for correct functioning through activation of the test device	DGUV Regulation 3/DGUV Regulation 4 § 5 Table 1A; TRBS 1201 Supplement Table 3	qualified person (A, B, C, D): trained user
fire extinguishers (pressure vessel)		x		x		every 2 years for functioning; every 5 years internal inspection	ArbStättV § 4 (3); ASR A2.2 Item 6.3.2 (1); DGUV Information 205-001 Section 11.9; BetrSichV § 16; BetrSichV Annex 2 Section 4 Nos. 6.13 and 5.8 Table 1	qualified person (E): competent person, employee of the manufacturer, etc.
fixed fire extinguishing systems (wall hydrants ...)	x	x		x		annually (by competent person); every 2 years (by expert)	ArbStättV § 4 (3); ASR A2.2 Item 6.3.1; DGUV Information 205-001 Section 11.10; DIN EN 671-3 Sections 4 and 6	qualified person (E): expert or competent person with special training
automatic fire extinguishing systems, with oxygen-displacing gases		x	x	x		annually by competent person; every 2 years by expert; after every activation by competent person	ArbStättV § 4 (3); ASR A2.2 Item 6.3.1; DGUV Information 205-001 Section 11.10; DGUV Rule 105-001 Section 6.3; BetrSichV Annex 2 Section 4 No. 6.13.4; manufacturer's specifications	qualified person (E): expert or competent person with special training
fixed liquefied gas installations		x		x		every 4 years	BetrSichV § 14 (2) BetrSichV Annex 3 Section 2 No. 4; DGUV Regulation 79/DGUV Regulation 80, § 33 (3)	qualified person (D, E): competent person, technical staff member with inspection experience and regulatory knowledge
liquefied gas installations with non-stationary supply facilities		x		x		every 2 years	BetrSichV § 14 (2) BetrSichV Annex 3 Section 2 No. 4; DGUV Regulation 79/DGUV Regulation 80, § 33 (4)	qualified person (D, E): competent person, technical staff member with inspection experience and regulatory knowledge

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	Visual inspection	Functional test	Mechanical test	Measurement	Electrical test			
liquefied gas installations in facilities below ground level		x		x		annually	BetrSichV § 14 (2) BetrSichV Annex 3 Section 2 No. 4; DGUV Regulation 79/DGUV Regulation 80, § 39 (2)	qualified person (D, E): competent person, technical staff member with inspection experience and regulatory knowledge

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<p>gas installations (pressure installations: vessels, pressure regulators and piping) (installations requiring supervision according to BetrSichV Annex 2 Section 4 Nos. 2.1 and 2.2; ProdSG § 2 Sentence 1 No. 30; 2014/68/EU Druckgeräterichtlinie (Pressure Equipment Directive) Arts. 4 (1) and (2))</p> <p>vessels: 2014/68/EU Art. 4 (1) a) i) - fluid group I: $V > 1 \text{ L}$ and $PS \cdot V > 25 \text{ bar} \cdot \text{L}$ or $PS > 200 \text{ bar}$ - fluid group II: $V > 1 \text{ L}$ and $PS \cdot V > 50 \text{ bar} \cdot \text{L}$ or $PS > 1000 \text{ bar}$ (see 2014/68/EU Art. 13 for a definition of fluid group)</p> <p>simple pressure vessels: according to 2014/29/EU Art. 1 for air or nitrogen: $50 \text{ bar} \cdot \text{L} < PS \cdot V < 10000 \text{ bar} \cdot \text{L}$; $PS(\text{max}) = 30 \text{ bar}$</p> <p>pipng installations: 2014/68/EU Art. 4 (1) c) i) - $DN > 25$ according to BetrSichV Annex 2 Section 4 No. 2.1 Sentence 1 d, - $DN > 32$ and $PS \cdot DN > 1000 \text{ bar}$ for all other substances</p>			x	x		<p>see BetrSichV Annex 2 Section 4 No. 5.8 Table 1 for inspection frequencies</p>	<p>BetrSichV § 16; BetrSichV Annex 2 Section 4 No. 5; BetrSichV Annex 2 Section 4 No. 5.5</p>	<p>qualified person (pressure installations) according to BetrSichV Annex 2 Section 4 No. 3 and authorised inspection agencies, experts</p>

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gas installations (pressure installations: vessels, pressure regulators and piping, in particular for gases with dangerous properties and gases under pressure); (equipment, installations not requiring supervision according to BetrSichV)				x		annually	BetrSichV § 14; TRBS 1201 Supplement Table 2; TRBS 1201 Part 1; TRBS 1201 Part 2 Nos. 3 and 3.5; TRBS 2141 Part 3 No. 4.2.2; TRBS 2152 Part 2 No. 2.4.3.5; TRBS 3146 No. 4.2	qualified person (D, E): competent person, technical staff member with inspection experience and regulatory knowledge
gas fittings for special gases (e.g. pressure regulators = equipment parts with safety function)						annually	TRBS 1201 Supplement Table 2 (see also gas installations that potentially require supervision)	qualified person (D, E): person trained in handling and using gas fittings; employee of the installation company
	x					prior to each shift (mobile); monthly (fixed)	Information Sheet T 021 of BG RCI (DGUV Information 213-056), as of 2/2016, Section 9.3 (fixed); Section 11.3 (mobile)	qualified person (B, C, D): trained user; requirements: Information Sheet T 021 of BG RCI (DGUV Information 213-056) Section 13
gas alarm systems for toxic gases/vapours and oxygen (fixed, mobile)	x	x	x	x		every 4 months (functional test)	Information Sheet T 021 of BG RCI (DGUV Information 213-056), as of 2/2016, Section 9.3 (fixed); Section 11.3 (mobile)	qualified person (C, D, E): qualified specialists, customer service, manufacturer, maintenance companies for gas alarm systems; requirements: Information Sheet T 021 of BG RCI (DGUV Information 213-056) Section 13

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	X	X	X	X		annually (system check)	Information Sheet T 021 of BG RCI (DGUV Information 213-056), as of 2/2016, Section 9.3 (fixed); Section 11.3 (mobile)	qualified person (C, D, E): trained qualified specialists (further training every 2 years) or experts employed by the manufacturer, maintenance companies for gas alarm systems; requirements: Information Sheet T 021 of BG RCI (DGUV Information 213-056) Section 13
gas alarm systems and devices for explosion protection (fixed, mobile, portable)	X	X	X	X		annually	BetrSichV Annex 2 Section 3 No. 5.3	qualified person according to BetrSichV Annex 2 Section 3 No. 3, in particular No. 3.3
	X					prior to each shift (portable); monthly (fixed)	Information Sheet T 023 of BG RCI (DGUV Information 213-057), as of 2/2016, Sections 9.3 (fixed) and 11.3 (portable)	qualified person (B, C, D): trained user; requirements: Information Sheet T 023 of BG RCI (DGUV Information 213-057) Section 13
	X	X	X	X		every 4 months (functional test)	Information Sheet T 023 of BG RCI (DGUV Information 213-057), as of 2/2016, Sections 9.3 (fixed) and 11.3 (portable)	qualified person (C, D, E): qualified specialists, customer service, manufacturer, maintenance companies for gas alarm systems; requirements: Information Sheet T 023 of BG RCI (DGUV Information 213-057) Section 13
	X	X	X	X		annually (system check)	Information Sheet T 023 of BG RCI (DGUV Information 213-057), as of 2/2016, Sections 9.3 (fixed) and 11.3 (portable)	qualified person (C, D, E): trained qualified specialists (further training every 2 years) or experts employed by the manufacturer, maintenance companies for gas alarm systems; requirements: Information Sheet T 021 of BG RCI (DGUV Information 213-056) Section 13

This table summarises the recommendations of the Subcommittee "Laboratories" of the "Raw materials and chemical industry" Expert Committee of the DGUV how frequently periodic inspections should be carried out on laboratory equipment as well as the basic guidelines set forth in state regulations and the regulations of the German Social Accident Insurance Institution and also provides further information on the inspection scope. For more information, see also Annex 3 of the DGUV Information 213-851, in particular Table 6, which specifies the minimum requirements for inspectors (explanations for A, B, C, D, E, F) as well as chapter 8 and further references to special laboratory equipment of the DGUV Information 213-086 "Biological laboratories - Equipment and organisational measures" of the Subcommittee "Biological Agents" of the "Raw materials and chemical industry" Expert Committee of the DGUV.

As a general rule, a visual inspection and a simple functional test must be carried out by trained persons on all equipment prior to use. The scope and frequency of the inspections are based on the manufacturer's specifications (TRBS 1201 (Technical Rules for Operational Safety)). Inspections of all electrical systems and equipment must be performed according to DGUV Regulation 3 or DGUV Regulation 4.

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glass equipment, in particular glass vacuum equipment, pressure vessels and glass piping	x			(x)		prior to use	DGUV Information 213-851, e.g. Sections 5.1.6.1, 5.2.1.1, 5.2.17; BetrSichV Annex 3 Section 4 No. 6.22	qualified person (A, B, C): trained user
presses for metal processing (with protective devices)		x	x	x		annually	DGUV Information 209-030	qualified person (D, E)
compressors and vacuum pumps		x	x			annually (manufacturer's specifications)	TRBS 1201 Supplement Table 2, safety systems (e.g. pressure and temperature monitoring); DGUV Rule 100-500/DGUV Rule 100-501, Chapter 2.11, Part 2, Section 3.6.2; see also gas installations (pressure installations)	qualified person (D, E): competent person
cryogenic vessels (transportable vacuum-insulated vessels with a capacity of not more than 1000 L, operation above atmospheric pressure (corresponding use for open (unpressurised) vessels)	x	x	x	x		complete inspection every 10 years, every 5 years for self-closing pressure relief equipment (DIN EN ISO 21029 Part 2); safety systems for protection against excessive pressure: annually; manufacturer's specifications	DIN EN ISO 21029 Cryogenic vessels - transportable vacuum insulated vessels of not more than 1000 litres volume - Part 2: Operational requirements (see Table 1 for scope of inspection); visual and functional test prior to filling; TRBS 1201 (see also DIN EN 14398 Cryogenic vessels - large transportable non-vacuum-insulated vessels - Part 3: Operational requirements)	qualified person (B, C, D, E): trained user (see DIN EN ISO 21029 Part 2 for instruction programme)

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laboratory and analysis devices	x		x			prior to use; regularly, according to stress	BetrSichV § 3 (6); TRBS 1201; manufacturer's specifications	qualified person (B, C): trained in working with the specific analysis device
lasers	x	x	x			prior to use	TRBS 1201 structural and technical protective and safety systems (e.g. functioning of contact switches, emergency stop switch, remote locking systems ...)	qualified person (B, C, D, E): e.g. laser safety officer, experienced in handling the protective systems
ladders and steps	x	x	x			prior to each use; at least once annually	DGUV Information 208-016; BetrSichV Annex 1 No. 3; TRBS 2121 Part 2 No. 5; TRBS 1201 Supplement Table 3	qualified person (A, B, C, D, E): trained staff members, competent person, knowledge about inspections; technical staff member with inspection experience and regulatory knowledge
ventilation, systems for ventilation and air conditioning		x		x		annually	DGUV Rule 109-002, Section 3.7; VDMA 24176; VDMA 24186 Part 1; GefStoffV § 7 (7): at least every 3 years; ArbStättV § 4 (3)	qualified person (D, E): competent person, technical staff member with inspection experience and regulatory knowledge
ventilation, systems for ventilation and air conditioning in potentially explosive atmospheres		x		x		annually	BetrSichV Annex 2 Section 3 No. 5.3; TRBS 1201 Part 1; GefStoffV § 6 (9); DGUV Rule 109-002 Section 3.7; VDMA 24176; VDMA 24186 Part 1; ArbStättV § 4 (3)	qualified person according to BetrSichV Annex 2 Section 3 No. 3, in particular No. 3.3
emergency stop switch, electric			x			annually	ArbStättV § 4 (3); TRBS 1201	qualified person (B, C, D, E): trained user

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emergency stop switch, gas			x			annually	ArbStättV § 4 (3); TRBS 1201	qualified person (B, C, D, E): trained user
emergency lighting/safety lighting				x		annually	ArbStättV § 4 (3); ASR A3.4/3 Item 6.3 (follow manufacturer's specifications); BetrSichV § 4 (5); TRBS 1201	qualified person (D, E): technical staff member with inspection experience and regulatory knowledge, or employee of specialist companies, manufacturers and maintenance companies
emergency showers (eye-wash units; safety showers)		x	x	x		monthly	DGUV Information 213-851, Section 7.2 recommended: weekly functional test and operation of emergency eye-wash units	qualified person (A, B, C, D, E): trained person, knowledge of regulations and inspection requirements
emergency power supply				x		every 3 years	ArbStättV § 4 (3); BetrSichV § 4 (5); inspection regulations for safety installations of the federal states of Germany (e.g. Bavaria SPrüfV § 2 (1) No. 7)	qualified person (D, E): competent person, technical staff member with inspection experience and regulatory knowledge or employee of specialist companies, manufacturers and maintenance companies
personal emergency signal systems		x		x		annually	DGUV Rule 112-139 Sections 3.4.10 and 3.4.13; DGUV Information 212-139 Section 6; DGUV Guideline: use of personal emergency signal systems for hazardous tasks	qualified person (B, C, D, E): trained user, competent person, technical staff member with inspection experience and regulatory knowledge
hoses and fittings on gas supply pipes and gas burners			x			prior to start-up	DGUV Information 213-851 Section 5.2.11.9	qualified person (A, B, C, D): person trained in handling and using hoses and fittings

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protective gloves						prior to each use	DGUV Rule 112-195 Section 7.1	qualified person (A, B, C, D, E): user trained in the use of protective equipment and in condition requirements
protective screens, anti-shatter curtains		x				prior to each use	BetrSichV § 4 (5); TRBS 1201	qualified person (A, B, C): trained user
automatic fire extinguishing systems with oxygen-displacing gases		x	x	x		annually by a competent person; every 2 years by an expert	ArbStättV § 4 (3); ASR A2.2 Item 6.3; DGUV Rule 105-001 Section 6; BetrSichV Annex 2 Section 4 No. 6.13.4; manufacturer's specifications	qualified person: expert or competent person with special training
labelling for health and safety protection at the workplace		x		x		annually	ArbStättV § 4 (3); ASR A1.3 Item 4 (13): inspection of efficacy; TRBS 1201	qualified person (B, C, D, E): trained person, knowledge of relevant rules and regulations
safety equipment, protective systems (e.g. safety lighting, fire extinguishing systems, signal systems, emergency generators and emergency switches, systems for ventilation and air conditioning ...)			x	x		annually	ArbStättV § 4 (3); BetrSichV § 4 (5); TRBS 1201	qualified person (D, E): competent person, technical staff member with inspection experience and regulatory knowledge

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safety cabinets for flammable liquids or compressed gases			x	x		annually (state of the art)	ArbStättV § 4 (3); BetrSichV § 4 (5); manufacturer's specifications	qualified person (B, C, D, E): competent person, manufacturer training or equivalent experience in the inspection of safety cabinets; employee of the manufacturer, maintenance company
safety benches for cytostatic agents (air circulation, filter)		x	x	x		annually	DIN 12980:2005-6 (inspection types 3 and 4 in DIN 12980); current draft of DIN 12980:2015-8	qualified person (D, E): competent person; requirement: completion of fume hoods manufacturer training or equivalent knowledge from professional experience
safety benches, microbiological safety benches (air circulation, filter)			x	x		annually (state of the art)	Information Sheet B 011 (9/2004) of BG RCI; see also manufacturer's specifications	qualified person (D, E): competent person; requirement: participation in specialised training (e.g. TÜV NordCert) or equivalent knowledge from professional experience
first aid kits	x					annually	DGUV Regulation 1 § 25 (2); ASR A4.3 Item 4	qualified person (A, B, C): trained user
flow switches		x				prior to use	BetrSichV § 4 (5); TRBS 1201	qualified person (A, B, C): trained user

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centrifuges (with a kinetic energy of > 200 Nm)	x	x				prior to use	DGUV Rule 100-500 Chapter 2.11 Part 3 Section 3.5.1; DGUV Principle 313-001, Section 21	qualified person (B, C, D): trained user
(does not apply to centrifuges with closed casing and to laboratory centrifuges for not explosive, not flammable or not potentially explosive substances with a kinetic energy up to 10 000 Nm or a nominal output of 500 W)		x	x			annually in operating mode	DGUV Rule 100-500 Chapter 2.11 Part 3 Section 3.5.1; DGUV Principle 313-001, Section 2.2.2	qualified person (D, E): competent person, technical staff member with inspection experience and regulatory knowledge
(does not apply to laboratory centrifuges for not explosive, not flammable or not potentially explosive substances with a kinetic energy up to 10 000 Nm or a nominal output of 500 W)		x	x			dismantled: every 3 years (ultracentrifuges annually)	DGUV Rule 100-500 Chapter 2.11 Part 3 Section 3.5.2.2 and 3.5.2.4; DGUV Principle 313-001, Section 2.2.3 and 2.2.4	qualified person (D, E): competent person, technical staff member with inspection experience and regulatory knowledge