

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 § 14 TRBS 1201	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 § 4 (5); BetrSichV § 3 (6); BetrSichV § 14; TRBS 1201 Annex 4	qualified person (B, C, D, E, F)
protective and safety mechanisms on equipment	X	x				prior to each use	BetrSichV § 4 (5) Sentence 3; TRBS 1201, especially No. 5.3	qualified person (A, B, C, D): any trained user
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					x	every 4 years	guideline according to DGUV Regulation 3 / DGUV Regulation 4 (Table 1A); according to TRBS 1201 further information on organisation and performance: DGUV Information 203-071 DGUV Information 203-072	qualified electrician

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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; further information on organisation and performance: DGUV Information 203-049 DGUV Information 203-070 DGUV Information 203-071	qualified electrician (or person trained in electrical work under guidance and supervision by a qualified electrician)
workplace waste	x					annually	DGUV Information 213-851 Section 4.16.2	qualified person (A, B, C): trained user

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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 TRBS 1201 part 1; TRBS 1201 part 3; TRBS 1123 BetrSichV Annex 2 Section 3 No. 5.2 TRBS 1201 part 1; TRBS 1201 part 3; TRBS 1123 BetrSichV Annex 2 Section 3 No. 5.3 TRBS 1201 part 1;	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, Table 12; 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					prior to each use	BetrSichV § 14 (2) or § 16; BetrSichV Annex 2 Section 4 No. 5 and 7.20; TRBS 1201 part 2;	qualified person (B, C, D, E): competent person, experience working with autoclaves
			x			internal inspection: every 10 years; resistance test every 10 years	BetrSichV § 14 (2) or BetrSichV § 16; BetrSichV Annex 2 Section 4 No. 5 and 7.20; TRBS 1201 Part 2; see also:	if pressure x contents (PS x V) < 100 bar x L qualified person according to BetrSichV Annex 2 Section 4 No. 3 (D,E)
			x			internal inspection: every 5 years; resistance test every 5 years	https://www.bgrci.de/fileadmin/BGRCI/Microsites/Anlagensicherheit/Onlineportal_Anlagensicherheit/Aufstellung_Inbetriebnahme_und_Pr%C3%BCfungen_von_Autoklaven.pdf	if pressure x contents (PS x V) < 100 bar x L authorised inspection agencies according to ProdSG and BetrSichV (ZÜS) (F)

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autoclaves: safety devices (alarm devices instead of devices for detecting and limiting pressure and temperature), e.g. on autoclaves for sterilisation	X	X				Depending on loads (according to the manufacturer's specifications)	BetrSichV § 4 (5); sentence 3 TRBS 1201 Part 2 Section 10 and 11; TRBS 2141; see https://www.bgrci.de/fileadmin/BGRCI/Microsites/Anlagensicherheit/Onlineportal_Anlagensicherheit/Aufstellung_Inbetriebnahme_und_Pr%C3%BCfungen_von_Autoklaven.pdf	qualified person (B, C, D, E): competent person, technical staff member with inspection experience and regulatory knowledge
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";	BetrSichV § 14 (2) or BetrSichV § 16; BetrSichV Annex 2 Section 4 No 5 and 6; TRBS 1201 part 2; DIN EN 13060 see also: https://www.bgrci.de/anlagensicherheit/fachwissen/druckgeraete/informationsblaetter-bgrci/pruefungenpruefzustaendigkeiten-druckgeraete	qualified person (pressure installations) according to BetrSichV Annex 2 Section 4 No. 3 (D,E); or authorised inspection agencies according to ProdSG and BetrSichV (ZÜS) (F)
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, Part 17	qualified person (D, E): competent person, technical staff member with experience in inspections and knowledge of regulations

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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 7.5; reference in VDE 0833-1, VDE 0833-2; 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
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	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 7.5; DGUV Information 205-001 Section 8.9.1; BetrSichV § 16; BetrSichV Annex 2 Section 4 No7.10; DIN 14406-1	qualified person (E): competent person, employee of the manufacturer, etc.

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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 7.5; DGUV Information 205-001 Section 8.9.2; DIN EN 671-3 Sections 4 and 6 DIN 14462	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; Pressure vessel inspection according to BetrSichV	ArbStättV § 4 (3); ASR A2.2 Item 7.5; DGUV Information 205-001 Section 8.9; DGUV Information 205-026 Section 7; BetrSichV Annex 2 Section 4 No. 7.10; manufacturer's specifications	qualified person (E): expert or competent person with special training; Pressure vessel inspection: ZÜS(F) or qualified person (E)
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
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>piping 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		see BetrSichV Annex 2 Section 4 No. 5.8 Table 1 or No. 6 Table 2 to 11	BetrSichV § 14 or § 16; BetrSichV Annex 2 Section 4 No. 5; TRBS 1201 Part 2	qualified person (pressure installations) according to BetrSichV Annex 2 Section 4 No. 3 and authorised inspection agencies, experts according to ProdSG and BetrSichV (ZÜS)

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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 Annex 4; TRBS 1201 Part 1; TRBS 1201 Part 2; TRBS 3146 No. 4.7	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)		x	x			before each assembly, after assembly for tightness; before use"	BetrSichV § 14 1201 Part 2 No. 5.3; manufacturer's specifications	TRBS 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

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glass equipment, in particular glass vacuum equipment, pressure vessels and glass piping	X			(X)		prior to use	BetrSichV § 14 (2); DGUV Information 213-851, e.g. Sections 5.1.6.1, 5.2.1.1, 5.2.17; BetrSichV Annex 2 Section 4 No. 7.18	qualified person (A, B, C): trained user
presses for metal processing (with protective devices)		X	X	X		annually	BetrSichV § 14 (2); Information 209-030	DGUV qualified person (D, E)
compressors and vacuum pumps		X	X			annually (manufacturer's specifications)	TRBS 1201 Part 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;	BetrSichV § 14 or § 16; BetrSichV § 14 Annex 2 Part 4 No.7.15; DIN EN ISO 21029 Part 2 : Part 2: Operational requirements (see Table 1 for scope of inspection); visual and functional test prior to filling; (see also DIN EN 14398 Cryogenic vessels - large transportable non-vacuum-insulated vessels - Part 3: Operational requirements) manufacturer's specifications	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 load	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	BetrSichV § 14 (2); Information 208-016; BetrSichV Annex 1 No. 3; TRBS 2121 Part 2 No. 5; TRBS 1201 No. 5	DGUV 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	ArbStättV § 4 (3); A3.6, Issue 6.6; GefStoffV § 7 (7); TRGS 402; Rule 109-002, Section 11.2.2; VDMA 24176; VDMA 24186 Part 1;	ASR DGUV VDI 6022; qualified person (D, E): competent person, technical staff member with inspection experience and regulatory knowledge

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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 § 7 (7); DGUV Rule 109-002 Section 11.2.2; VDMA 24176; VDMA 24186 Part 1; ArbStättV § 4 (3) ASR A3.6, Issue 6.6;	qualified person according to BetrSichV Annex 2 Section 3 No. 3.1
emergency stop switch, electric			x			annually	ArbStättV § 4 (3); TRBS 1201	qualified person (B, C, D, E): trained user
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 Issue 6 (3); DGUV Information 213-850 Section 4.20.2	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

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emergency power supply				x		every 3 years	ArbStättV § 4 (3); 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
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	TRBS 1201	qualified person (A, B, C): trained user

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automatic fire extinguishing systems with oxygen-displacing gases		x	x	x		annually by a competent person; every 2 years by an expert Pressure vessel inspection according to BetrSichV	ArbStättV § 4 (3); ASR A2.2 Issue 7.5; DGUV Information 205-001 Section 8.9; DGUV Information 205-026 Section 7; BetrSichV Annex 2 Section 4 No. 7.10; manufacturer's specifications	qualified person (E): expert or competent person with special training Pressure vessel inspection: ZÜS(F) or qualified person (E)
labelling for health and safety protection at the workplace		x			x	annually	ArbStättV § 4 (3); ASR A1.3 Issue 4 (13): inspection of effectiveness;	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 well manufacturer's specifications	qualified person (D, E): competent person, technical staff member with inspection experience and regulatory knowledge as
safety cabinets for flammable liquids or compressed gases			x	x		annually (state of the art)	BetrSichV § 14 (2); ArbStättV § 4 (3); 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

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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)	BioStoffV § 8 (6); Information Sheet B 011 (9/2004) of BG RCI; see also manufacturer's specifications Information Sheet T 032 of BG RCI (DGUV Information 213-857), Section 5.8.3	qualified person (D, E): competent person; requirement: participation in specialised training, 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	TRBS 1201	qualified person (A, B, C): trained user
centrifuges (with a kinetic energy of > 200 Nm)	x	x				prior to use	BetrSichV § 14 (2); TRBS 1201; DGUV Rule 100-500 Chapter 2.11 Part 3 Section 3.5.1; DGUV Principle 313-001, Section 2.1	qualified person (B, C, D): trained user see also VDI 4068 Sheet 11

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(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	BetrSichV § 14 (2); TRBS 1201; Rule 100-500 Chapter 2.11 Part 3 Section 3.5.2.1; DGUV Principle 313-001, Section 2.2.2	qualified person (D, E): competent person, technical staff member with inspection experience and regulatory knowledge see also VDI 4068 Sheet 11
(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)	BetrSichV § 14 (2); TRBS 1201; Rule 100-500 Chapter 2.11 Part 3 Section 3.5.2.2 and Section 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 see also VDI 4068 Sheet 11