

Engineering inspections

# Are you complying with UK Law?



Failure to comply with UK health and safety legislation can have serious consequences for businesses, such as reduction in workforce efficiency, increased risk of accidents and ill health, enforcement by the Health & Safety Executive and heavy fines or even imprisonment. A critical area of health and safety for businesses is the examination of plant and equipment to comply with various legislation.

#### Plant and equipment

This table provides information on various example plant and equipment types, and applicable UK legislation

Plant category	Example plant		Legislation	
Pressure	– Air receiver <sup>(1)</sup>	- Autoclave	PSSR	
	– Air conditioning <sup>(2)</sup>	- Boiling pans (steam)		
	- Steam boiler	- Canteen boiler (steam)		
	– Blowdown tank	- Steam receiver		
	- Hot water boiler (pressurised)	- Refrigeration plant <sup>(2)</sup>		
	- LPG storage/liquified natural gas vessels	- Safety valves/pressure control valves		
	- Storage of hazardous fluids			
Lifting	- Crane (e.g. portal, pedestal, overhead,	- Rope blocks	LOLER	
	tower, mobile, jib, swing jib)	- Sheer legs		
	- Portable crane (e.g. engine)	- Stairlift		
	- Runway track	- Trolley/carriage		
	- Suspended access equipment	- Work handler		
	- Chain block (powered or manual)	- Wheelchair lift		
	- Winch (powered or manual)	- Straddle carrier		
	- Fork lift truck (e.g. sideloader, reach, rough terrain)	- Vehicle tailboard lift		
	- Escalator	- Telehandler		
	- Lifting accessories (e.g. slings, eyebolts,	- Mobile gantries		
	shackles, chains)	- Passenger/goods lifts		
	- Mobile elevating working platform	- Builders' hoist		
	- Rescue harness	– Man basket		
Electrical	- Electrical installations	- Hazardous area installations	EAWR &	
systems	- Portable appliance testing	- Petrol dispensing areas	DSEAR	
-	- Quarries	- Public entertainment licence inspections		
Electrical/	- Diesel engine and alternator	- Fan	PUWER	
mechanical	- Power transformer	- Gas engine		
	- Electric motor pump	- Oil/coal/gas burner unit		
	- Compressor	- Rectifier		
	- Water turbine/generator			
Power presses	- Friction screw press	- Hydraulic power press/press brake	PUWER	
and associated	- Guillotine (electric/hydraulic)	(fixed/moveable/interlocking guards)		
machinery	- Pneumatic press (fixed or moveable guards)	<ul> <li>Mechanical power press/press brake</li> </ul>		
-	- Plastic injection moulding machine	(fixed/moveable/light/interlocking guards)		
	- Machines incorporating photo electric guarding	- Servo press (fixed/moveable/interlocking/		
		photo electric guards)		
Local exhaust	- Dust extraction (e.g. wood, metal, blasting of castings, etc)		COSHH &	
ventilation	- Fume extraction (e.g. paint, gases, etc)		CLAW	

#### Legislation

PSSR LOLER	The Pressure Systems Safety Regulations 2000 The Lifting Operations and Lifting Equipment		The Control of Substances Hazardous to Health Regulations 2002 The Control of Major Accident Hazards Regulations 2015
	Regulations 1998	<b>DSEAR</b>	The Dangerous Substances and Explosive Atmospheres
<b>EAWR</b>	The Electricity at Work Regulations 1989		Regulations 2002
PUWER	The Provision and Use of Work Equipment Regulations 1998	CLAW	The Control of Lead at Work Regulations 2002

For Northern Ireland, similar statutory equipment legislation is applicable, however, the year of implementation of the regulation is normally different.

<sup>(1)</sup> Legislation applicable if receiver is connected to a system containing a vessel greater than 250 bar/litres.

<sup>(2)</sup> Legislation applicable if plant exceeds 25kW with a vessel over 250 bar/litres.

## HSB is a specialist provider of engineering inspection services, offering a fully accredited service to aid compliance with legislation.

### Legislative examination requirements

This table provides a list of typical plant, noting the relevant legislative examination requirements (including typical frequencies)

Plant	Legislation	Legislative requirements
Pressure systems  - Steam boilers, vessels and systems  - Air receivers and other gas systems (over 0.5 bar pressure or 250 bar/litres capacity)  - High pressure hot water systems (over 110°C)	Require a Written Scheme of Examination. The Written Scheme determines the frequency and nature of examinations. Typical frequencies for examinations are:	
<ul> <li>Refrigeration systems/air conditioning plant with compressors over 25kW (combined inpur power) and a vessel over 250 bar/litres capaci</li> </ul>	<ul><li>Steam systems: 14 months</li><li>Air systems: 26 months</li><li>Other gases: 5-10 years</li></ul>	
- Storage of hazardous fluids	COMAH	- May require Written Scheme of Examination
Lifting - Passenger lifts	LOLER	<ul> <li>Any place of work: 6-monthly statutory thorough examination</li> <li>Property owners: duty of care under Health and Safety at Work Act for common areas. 6-monthly thorough examination advised</li> </ul>
- Escalators		– Statutory where the Workplace (Health, Safety & Welfare) Regulations 1992 applies in places of work
- Lifting machines, cranes, etc.		- Annual thorough examination
- Lifting accessories (chains, ropes, etc)		- 6-monthly examinations
- Lifting persons		- 6-monthly examinations
- Excavators		- Annual thorough examination (if used for lifting)
Fixed electrical systems - Commercial premises  EAWR		<ul> <li>5-yearly inspection and testing is considered appropriate for most premises</li> </ul>
- Industrial premises		- 3-yearly inspection and testing
– Quarries	DSEAR	- Annual or 6-montly inspection and testing
– Hazardous areas		- 1-3-yearly inspection and testing
Power presses and associated machinery  - Mechanical presses (including mechanical press brakes)	PUWER	<ul> <li>Thorough Examination by a Competent Person at 6/12-monthly intervals, depending on the type of guarding employed</li> <li>Examination of enclosed parts and tests of the electrical system to HSG236 (Health &amp; Safety Executive guidance)</li> </ul>
<ul> <li>Hydraulic/pneumatic/servo presses (including press brakes)</li> </ul>		<ul> <li>Inspection by a Competent Person at 6/12-monthly intervals, depending on the type of guarding employed</li> </ul>
Local exhaust ventilation  - Fume and non-metallic dust extraction	CLAW & COSHH	– 14-monthly examinations (usually examined annually)
- Metallic dust extraction		– Six-monthly examinations if used more than 12 hours per week; otherwise, 14-monthly examinations

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