LIFTING EQUIPMENT LEGISLATION MATRIX

NSL Communicating Safety

LIFTING EQUIPMENT

Initial exam/test

Section	No.	Equipment Type	Manufacturing Codes / Standards	Prior to first usage	After repair / modification	Annually	Quadrennially	Every 5 years
LIFTING APPLIANCES	1	CRANES (PEDESTAL / MOBILE) (UNDER 20t)	BS2452 / BS7121	●	●		◇	
	2	CRANES (PEDESTAL / MOBILE) (20t-50t)	BS2573 / BS2452 / BS7121	●	●		◇	
	3	CRANES (PEDESTAL / MOBILE) (OVER 50t)	BS2573 / BS2452 / BS7121	●	●		◇	
	4	ELECTRIC OVERHEAD TRAVELLING CRANES	BS466 / BS7121	●	●			
	5	MARINE LIFEBOAT DAVITS	BS MA41	●	●			
	6	DAVIT BLOCKS & ASSOC. EQUIPMENT	BS MA41	●	●			
	7	FORKLIFT TRUCKS	BS.ISO 5057/BS EN 1726-1/2	●	●			
	8	PALLET STACKERS	BS5777 / 5778 / ISO 5766	●	●			
	9	PALLET TRUCKS	BS ISO 509 (1996)	△	△			
	10	PERSONNEL & GOODS LIFTS	BS2655 / BS5655 / BS5656	●	●			
	11	SUSPENDED CRADLES	BS2830 / 5974	●	●			
	12	POWERED HOISTS (ELECTRIC)	BS466 / BS EN 13001	●	●			
	13	POWERED HOISTS (PNEUMATIC)	DIN F.E.M. 9.751	●	●			
	14	MANUAL HOISTS (CHAIN BLOCKS)	BS3243	●	●			
	15	LEVER HOISTS (PULLIFTS)	BS4898	●	●			
	16	WIRE ROPE HOISTS ("TIRFORS")		●	●			
	17	WIRE ROPES FOR ABOVE	BS302 / BS EN 12385	●	●			
	18	BEAM TROLLEYS		●	●			
	19	BEAM CLAMPS		●	●			
	20	PLATE CLAMPS		●	●			
	21	SINGLE SHEAVE BLOCKS (UP TO 25t)	BS4536 / 4018	●	●			
	22	SINGLE SHEAVE BLOCKS (OVER 25t)	BS4536	●	●			
	23	MULTI - SHEAVE BLOCKS (UP TO 25t)	BS4536	●	●			
	24	MULTI - SHEAVE BLOCKS (OVER 25t)	BS4536	●	●			
	25	CRANE HOOK BLOCKS (UP TO 25t)	BS4536	●	●			
	26	CRANE HOOK BLOCKS (OVER 25t)	BS4536	●	●			
	27	WINCH (PNEUMATIC)	BS MA31 / ISO 3078	●	●			
	28	WINCH (MAN-RIDING)		●	●			
	29	WINCH (MANUAL)	BS3701	●	●			
	30	WINCH (DAVIT)	BS MA55	●	●			
	31	STABBING BOARDS		●	●			
	32	RUNWAY BEAMS	BS2853 (see note 1)	●	●			
	33	LIFTING BEAMS (UP TO & INC 3t)	BS2573 PT 1/2 (see note 1)	●	●			
	34	LIFTING BEAMS (OVER 3 UP TO & INC 6t)	BS2573 PT 1/2 (see note 1)	●	●			
	35	LIFTING BEAMS (OVER 6 UP TO & INC 20t)	BS2573 PT 1/2 (see note 1)	●	●			
	36	LIFTING BEAMS (OVER 20 UP TO & INC 40t)	BS2573 PT 1/2 (see note 1)	●	●			
	37	LIFTING BEAMS (OVER 40t)	BS2573 PT 1/2 (see note 1)	●	●			
	38	HYDRAULIC RAMS & JACKS		△	△			
	39	MANUAL JACKS		△	△			
	40	TRANSIT CONTAINERS	BS7072 / BS EN 12079 -1999	●	●			◇
	41	TRANSIT CONTAINERS	S I 1984 No. 1890	●	●			
	42	MOBILE WORK PLATFORMS	BS7171 / BS EN 280 - 2001	●	●			
	43	FABRICATED PADEYES & CLAMPS	BS2573 (see note 1)	●	●			
LOAD IND.	44	DYNAMOMETERS / CRANE WEIGHERS	BS1610 / BS EN 10002	●	●			
	45	LOAD CELLS	BS1610 / BS EN 10002	●	●			
	46	SAFE LOAD INDICATORS / RCI's	BS7262 (1990) (see note 2)					
LIFTING ACCESSORIES	47	WIRE ROPE	BS302 / BS EN 12385	●				
	48	WIRE ROPE (ON PASSENGER LIFTS)	BS302 / BS EN 12385	●				
	49	WIRE ROPE (DIVING OPERATIONS)	BS302 / BS EN 12385	●				
	50	WIRE ROPE (MAN - RIDING WINCHES)	BS302 / BS EN 12385	●				
	51	WIRE ROPE SLINGS	BS1290 / BS EN 13414/1-3	●	●			
	52	WIRE ROPE SLINGS (MULTI - LEG)	BS1290 / BS EN 13414/1-3	●	●			
	53	CHAIN SLINGS-GRADE 80	BS EN 818-1 / ISO 3076	●	●			
	54	CHAIN HOOKS & FITTINGS - GRADE 80	ISO 8539	●	●			
	55	POLYESTER SLINGS	BS EN 1492 PT 1 & 2	●				
	56	SHACKLES - ALLOY (UP TO 25t)	RR-C-27 1D TYPE IV	●	●			
	57	SHACKLES - ALLOY (OVER 25t)	RR-C-27 1D TYPE IV	●	●			
	58	SHACKLES - HIGHER TENSILE (UP TO 25t)	ISO 2415	●	●			
	59	SHACKLES - HIGHER TENSILE (OVER 25t)	ISO 2415	●	●			
	60	EYEBOLTS (BRITISH)	BS4278	●	●			
	61	EYEBOLTS (U.S.)		●	●			
	62	RIGGING SCREWS (BRITISH)	BS4429	●	●			
	63	RIGGING SCREWS (TURNBUCKLES) (U.S.)	FF-T-791-TYPE 1 FORM 1	●	●			
	64	OPEN WEDGE SOCKETS (BRITISH)	BS7166 / BS EN 13411-6	●	●			
	65	OPEN WEDGE SOCKETS (U.S.)	RR-S-55OD TYPE C	●	●			

Proof load testing (Proof loads)

No.	% above SWL 10	25	50	100	300	Excess load (t) 3	5	10	SWL x 2•2	SWL x 2•5	Refer to I.L.O. Pamphlet 188	Other
1		●										
2							●					
3	●											
4		●										
5	●								▲			
6										●		
7	●											
8	●											
9												
10		●										
11		●										
12		●										
13		●										
14			●									
15			●									
16			●									
17				●								
18			●									
19			●									
20				●								
21					●							
22											●	
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24											●	
25				●								
26											●	
27		●										
28												▽
29			●									
30			●									◆
31		●										
32		●										
33				●								
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36								●				
37		●										
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40										●		○
41			■									
42		●										
43			●									
44				●								□
45				●								□
46												
47												★
48												★
49												★
50												★
51				●								
52				●								
53				●								
54				●								
55				✸								★
56				●								
57											●	
58				●								
59											●	
60				●								
61				●								
62				●								
63				●								
64				●								
65				●								

Periodic exam. req. and documentation requirements

No.	L.O.L.E.R. 6 mths	L.O.L.E.R. 12 mths	BS EN 12079 1999 12 M	S.I. 1890 30 M	Cert. of conformity / test	Destruction sample cert.	Calibration certificate	Stress calculations	Full fabrication package	Other
1	✻	●			●					
2	✻	●			●					
3	✻	●			●					
4	✻	●			●					
5	●				●					
6	●				●					
7	✻	●			●					
8	✻	●			●					
9	✻	●			●					
10	●				●					
11	●				●					
12	✻	●			●					
13	✻	●			●					
14	✻	●			●					
15	✻	●			●					
16	✻	●			●					
17	●				●					
18	✻	●			●					
19	✻	●			●					
20	✻	●			●					
21	✻	●			●					
22	✻	●			●					
23	✻	●			●					
24	✻	●			●					
25	✻	●			●					
26	✻	●			●					
27	✻	●			●					
28	●				●					
29	✻	●			●					
30	●				●					
31	●				●					
32		●			●			●	●	
33		●			●			●	●	
34		●			●			●	●	
35		●			●			●	●	
36		●			●			●	●	
37		●			●			●	●	
38	✻	●			●					
39	✻	●			●					
40		●	●		✪					
41	✻	●		●	●					
42	●				●					
43		●						●	●	
44	✻	●			●		●			
45	✻	●			●		●			
46	✻	●					●			
47	●					●				
48	●					●				
49	●					●				
50	●					●				
51	●				●					
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56	●				●					
57	●				●					
58	●				●					
59	●				●					
60	●				●					
61	●				●					
62	●				●					
63	●				●					
64	●				✪					
65	●				✪					

Factors of safety

THESE MAY VARY SLIGHTLY DEPENDENT ON MANUFACTURERS

No.	10:1	8:1	7:1	6.5:1	6:1	5:1	4.5:1	4:1	3.5:1	Other
1										○
2										○
3										○
4										○
5							●			
6					●					
7										○
8										○
9										○
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12						●				
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14						●				
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62						●				
63								●		
64						●				
65								●		

LEGEND

- ● STATUTORY REQUIREMENTS
- ✻ COMPANY POLICY INCLUDES LIFTING MACHINES IN 6-MONTHLYS
- ○ REFER TO SPECIFIC DESIGN CODES
- ▲ INITIAL FACTORY TEST
- △ FUNCTION TEST ONLY
- ▼ AMERICAN PATTERN BLOCKS
- ▽ REFER TO L.R.O.S./D.N.V. PROCEDURE
- ◆ DESCENT RATE MUST ALSO FALL BETWEEN 90-180 FT/MIN.
- ◇ AT THE DISCRETION OF THE INSPECTION BODY
- ■ ACCEPTED PRACTICE
- □ MUST BE CALIBRATED ANNUALLY
- ★ SAMPLE TO BE DESTRUCTED TO VERIFY MATERIALS
- ☆ F.O.S. VARIES - REFER TO BS5655/PD 6500
- ✸ METAL END FITTINGS ONLY
- ✪ PLUS N.D.T. REPORT

"Reducing Risks"

2006

NOTE 1: LIFTING SUPPORT STEELWORK SUCH AS RUNWAY BEAMS, LIFTING BEAMS, LIFTING FRAMES, PADEYES ETC WITH NO MOVING PARTS SHALL HAVE THEIR PERIODICITY EXTENDED TO 12 MONTHS AS LONG AS:

i) THEY ARE NOT USED FOR SUPPORTING PERSONNEL.
ii) THEIR USE IS INFREQUENT TO THE EXTENT THAT WEAR IS NOT AN ADVERSE FACTOR AND
iii) THEY ARE ADEQUATELY COATED/PROTECTED SO THAT CORROSION IS NOT AN ADVERSE FACTOR.

NOTE 2: IN ADDITION TO THE ANNUAL EXAMINATION, SAFE LOAD INDICATORS MUST BE FUNCTION CHECKED ON A DAILY BASIS AND CHECKED FOR CALIBRATION WEEKLY.

NOTE 3: LIFTING EQUIPMENT ONBOARD MERCHANT VESSELS: IN ACCORDANCE WITH SI 1988 No. 1639 ALL LIFTING EQUIPMENT (APPLIANCES AND PLANT WITH THE EXCEPTION OF HAND SPLICED TERMINATIONS) MUST BE PROOF LOAD TESTED PRIOR TO FIRST USE AND THEREAFTER EVERY **FIVE** YEARS. IT MUST ALSO BE VISUALLY EXAMINED ANNUALLY, BY A COMPETENT PERSON.

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