NSL

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Lifting Equipment Legislation Matrix

		EQUIPMENT TYPE	MANUFACTURING CODES / STANDARDS	INITIAL EXAM / TEST: PRIOR TO FIRST USAGE	INITIAL EXAM / TEST: AFTER REPAIR / MODIFICATION	INITIAL EXAM / TEST: ANNUALLY	INITIAL EXAM / TEST: QUADRENNIALLY	INITIAL EXAM / TEST: EVERY 5 YEARS (see note: 4)	PROOF LOAD TESTING: PROOF LOADS: % ABOVE SWL: 10	25	50	100	300	EXCESS LOAD (t): 5	10	SWL x 1.22 + 20	SWL x 2.2	SWL x 2.5	DNV 2.22 & I.L.O. PAMPHLET 188	OTHER	PERIODIC EXAM. REQ.: LOLER SI 1998 No 2307 LOLER SI 2006 No 2184: MTHS: 6	12	BS EN 12079 1999: M: 12	S.I. 1890: M: 30	DOCUMENTATION REQUIREMENTS: CERT. OF CONFORMITY / TEST	DESTRUCTION SAMPLE CERT.	CALIBRATION CERTIFICATE	STRESS CALCULATIONS	FULL FABRICATION PACKAGE	OTHER	FACTORS OF SAFETY (THESE MAY VARY SLIGHTLY DEPENDANT ON MANUFACTURERS): 10:1	8:1	7:1	6:1	5:1	4.5:1	4:1	3.5:1	OTHER
LIFTING EQUIPMENT	1	CRANES (PEDESTAL / MOBILE) (UNDER 20t)	BS7121 / BS EN 13001 / API Spec-2C	●	●		◇	◈		●											❊	●			●												○
	2	CRANES (PEDESTAL / MOBILE) (20t-50t)	BS7121 / BS EN 13001 / API Spec-2C	●	●		◇	◈						●							❊	●			●												○
	3	CRANES (PEDESTAL / MOBILE) (OVER 50t)	BS7121 / BS EN 13001 / API Spec-2C	●	●		◇	◈	●												❊	●			●												○
	4	ELECTRIC OVERHEAD TRAVELLING CRANES	BS7121 / BS EN 13001 / ASME B30.2,11 & 17	●	●					●											❊	●			●												○
	5	MARINE LIFEBOAT DAVITS	BS MA41 / 15516 / SOLAS	●	●				●									▲			●			●									●				
	6	DAVIT BLOCKS & ASSOC. EQUIPMENT	BS MA41 / 15516	●	●													●			●			●										●			
	7	FORKLIFT TRUCKS	BS.ISO 5057 / BS EN 1726-1/2 / BS EN ISO 3691	●	●				●												❊	●			●												○
	8	PALLET STACKERS	ISO 22915-4 / ISO 5766	●	●				●												❊	●			●												○
	9	PALLET TRUCKS	BS EN ISO 3691-5	△	△																❊	●			●												○
	10	PERSONNEL & GOODS LIFTS	BS2655 / BS5655 / BS5656 / BS 8486	●	●					●											●				●												○
	11	SUSPENDED CRADLES	BS 5974	●	●					●											●				●												○
	12	POWERED HOISTS (ELECTRIC)	BS EN 14492	●	●					●											❊	●			●												
	13	POWERED HOISTS (PNEUMATIC)	DIN F.E.M. 9.751	●	●					●											❊	●			●												
	14	MANUAL HOISTS (CHAIN BLOCKS)	BS EN 13157	●	●						●										❊	●			●												
	15	LEVER HOISTS (PULLIFTS)	BS EN 13157	●	●						●										❊	●			●												
	16	WIRE ROPE HOISTS (“TIRFORS”)	BS EN 13157	●	●						●										❊	●			●												
	17	WIRE ROPES FOR ABOVE	BS EN 12385, BS ISO 4309	●	●							●									●				●												
	18	BEAM TROLLEYS	BS EN 13157	●	●						●										❊	●			●												
	19	BEAM CLAMPS	BS EN 13157	●	●						●										❊	●			●												
	20	PLATE CLAMPS	BS EN 13155	●	●							●									❊	●			●												
	21	SINGLE SHEAVE BLOCKS (UP TO 25t)	BSEN13157	●	●								●								❊	●			●										▼		
	22	SINGLE SHEAVE BLOCKS (OVER 25t)	BS EN 13157	●	●														●		❊	●			●										▼		
	23	MULTI-SHEAVE BLOCKS (UP TO 25t)	BS EN 13157	●	●								●								❊	●			●										▼		
	24	MULTI-SHEAVE BLOCKS (OVER 25t)	BS EN 13157	●	●														●		❊	●			●										▼		
	25	CRANE HOOK BLOCKS (UP TO 25t)	BS EN 13157	●	●								●							●	❊	●			●										▼		
	26	CRANE HOOK BLOCKS (OVER 25t)	BS EN 13157	●	●								●					●		●	❊	●			●										▼		
	27	WINCH (PNEUMATIC)	BS EN 14492 / ASME B30.7 / ASME B30.16	●	●					●											❊	●			●											●	
	28	WINCH (MAN-RIDING)	PUWER / LOLER / OEM Guidance	●	●															▽	●			●													
	29	WINCH (MANUAL)	BS EN 13157	●	●						●										❊	●			●												○
	30	WINCH (DAVIT)	BS EN 13157	●	●						●									◆	●			●												○
	31	STABBING BOARDS	PUWER / LOLER / OEM Guidance	●	●					●											●			●												○
	32	RUNWAY BEAMS	BS2853 (see note 1)	●	●					●												●		●							●	●				○
	33	LIFTING BEAMS (UP TO & INC. 3t)	BS EN 13001 (see note 1)	●	●							●										●		●							●	●				○
	34	LIFTING BEAMS (OVER 3 UP TO & INC. 6t)	BS EN 13001 (see note 1)	●	●																	●		●							●	●				○
	35	LIFTING BEAMS (OVER 6t UP TO & INC. 20t)	BS EN 13001 (see note 1)	●	●						●											●		●							●	●				○
	36	LIFTING BEAMS (OVER 20 UP TO & INC. 40t)	BS EN 13001 (see note 1)	●	●											●						●		●							●	●				○
	37	LIFTING BEAMS (OVER 40t)	BS EN 13001 (see note 1)	●	●					●												●		●							●	●				○
	38	HYDRAULIC RAMS & JACKS	BS EN 1494	△	△																❊	●			●												○
	39	MANUAL JACKS	BS EN 1494	△	△																❊	●			●												○
	40	OFFSHORE CONTAINERS	BS EN 12079 / DNV 2.7-1	●	●			◇											●	○		●	●		★												○
	41	FREIGHT CONTAINERS	BS ISO 1496-5	●	●						■										❊	●		●	●												○
	42	MOBILE WORK PLATFORMS	BS 8460 / BS EN 280	●	●					●											●				●												○
	43	FABRICATED PADEYES & CLAMPS	BS EN 13001 (see note 1)	●	●						●											●								●	●				○
LOAD IND.	44	DYNAMOMETERS / CRANE WEIGHERS	BS EN ISO 7500-1 / BS EN ISO 6892 (See note 2)	●	●								●							□	❊	●			●												
	45	LOADS CELLS	BS EN ISO 7500-1 / BS EN ISO 6892 (See note 2)	●	●								●							□	❊	●			●												
	46	SAFE LOAD INDICATORS / RCIs	BS7262 (1990) (see note 2)																		❊	●					●										
LIFTING ACCESSORIES	47	WIRE ROPE	BS ISO 4309 / BS EN 12385	●																★	●					●										
	48	WIRE ROPE (ON PASSENGER LIFTS)	BS ISO 4309 / BS EN 12385	●																★	●					●										☆
	49	WIRE ROPE (DIVING OPERATIONS)	BS ISO 4309 / BS EN 12385	●																★	●					●							●			
	50	WIRE ROPE (MAN-RIDING WINCHES)	BS ISO 4309 / BS EN 12385	●																★	●					●							●			
	51	WIRE ROPE SLINGS	BS EN 13414 / 1-3	●	●							●									●					●										
	52	WIRE ROPE SLINGS (MULTI-LEG)	BS EN 13414 / 1-3	●	●							●									●					●										
	53	CHAIN SLINGS-GRADE 80	BS EN 818-1 / ISO 3076	●	●							●									●					●										
	54	CHAIN HOOKS & FITTINGS - GRADE 80	BS EN 1677	●	●							●									●					●										
	55	POLYESTER SLINGS	BS EN 1492 PT 1, 2 & 4	●								✶								★	●				●											
	56	SHACKLES - ALLOY (UP TO 20t)	RR-C 27 1D TYPE IV, 13889	●	●							●									●					●										
	57	SHACKLES - ALLOY (OVER 25t)	RR-C 27 1D TYPE IV, 13889	●	●															●	●					●										
	58	SHACKLES - HIGHER TENSILE (UP TO 25t)	ISO 2415	●	●							●									●					●										
	59	SHACKLES - HIGHER TENSILE (OVER 25t)	ISO 2415	●	●															●	●					●										
	60	EYEBOLTS (BRITISH)	BS EN ISO 3266	●	●							●									●					●										
	61	EYEBOLTS (U.S.)	ASME B18 15M / ASME B30.26	●	●							●									●					●										
	62	RIGGING SCREWS (BRITISH)	BS4429	●	●							●									●					●										
	63	RIGGING SCREWS (TURNBUCKLES) (U.S.)	FF-T-791-TYPE 1 FORM 1	●	●							●									●					●										
	64	OPEN WEDGE SOCKETS (BRITISH)	BS EN 13411-6	●	●							●									●					●										
	65	OPEN WEDGE SOCKETS (U.S.)	RR-S-550D TYPE C	●	●							●									●					●										

2017 Edition

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
◈	API SPECIFICATION CRANES ONLY

NOTE 1 Lifting support steelwork such as runway beams, lifting frames, padeyes, etc. with no moving parts can have their periodicity extended to 12 months as long as:

1) They are not used for supporting personnel.
2) Their use is infrequent to the extent that wear is not an adverse factor and...
3) 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 Hand spliced terminations must not be subjected to proof-load testing as excessive loading can damage and weaken the splice.

NOTE 4 Si 2006 no 2184 (marine version of loler) requires that all ship’s lifting equipment must be tested by a competent person every 5 years.

NOTE 5 S.I. 1998 No. 2307 sates, “Equipment used for the lifting of people should have a safety coefficient relating to its strength of at least twice that required for general lifting operations”. A common design safety coefficient for lifting of equipment is 5:1, (resulting in the 10:1 figure shown in the matrix). Where equipment has a different factor of safety from 5:1, the “doubling” of the safety coefficient will take precedence.

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