



**Rope and Sling Specialists**

**Lifting Equipment Appreciation  
Course Outline**



## Training Course Outline

Course Name	<b>Lifting Equipment Appreciation</b>	Duration	2 days
Training Objective	Knowledge of Lifting Equipment with Pre Use Inspection/Rejection Criteria		
Enabling Objective	KLP No.	Key Learning Point	Method of Testing*
Carry out a brief covering: Health & Safety / Facilities / Refreshments / Training Objectives			
Demonstrate a knowledge of the legislation, regulations and standards governing the use of lifting equipment	1.1	<b>British &amp; European Legislation</b> 1. UK: Criminal & Civil Law 2. EU: Status in UK Law	T
	1.2	<b>Health &amp; Safety at Work Summary</b> 1. Section 2 – Employers Duties (Brief Outline) 2. Section 6 – Machinery Directive (CE marking) 3. Section 7 & 8 - (Employees Duties)	T
	1.3	<b>Lifting Equipment Definitions &amp; Terminology</b> 1. Lifting Operation 2. Lifting Equipment 3. Lifting Accessories 4. Lifting Machine 5. Thorough Examination 6. Pre Use Check 7. Responsible Person 8. Working Load Limit (WLL) 9. Safe Working Load (SWL) 10. Factor of Safety 11. Mode Factor	T
	1.4	<b>PUWER</b> 1. Regulation 3 (Application) 2. Regulation 4 (Suitability) 3. Regulation 5 (Maintenance) 4. Regulation 6 (Inspection) 5. Regulation 8 (Information & Instructions) 6. Regulation 9 (Training)	
	1.5	<b>LOLER '98</b> 1. Regulation 3 (Application) 2. Regulation 7 (Marking) 3. Regulation 8 (Organisation) 4. Regulation 9 (Thorough Examination) 5. Regulation 10 (Reports & Defects)	T
	1.6	Requirements of an Inspection	T
	1.7	<b>Certificates &amp; Reports</b> 1. Declaration of Conformity 2. Reports of Thorough Examination	T
	1.8	British Standards	T
	Demonstrate a knowledge of the different materials used in the manufacture of lifting equipment		<b>Identification Marks:</b>
2.1		1. Steels (4, 04, M, 8, T, V) 2. Textiles (Colour Code)	T
Demonstrate a knowledge of the stress & strain that can occur in lifting equipment	3.1	Stress Strain	T
	3.2	<b>Permanent Set: (Elongation)</b> 1. Permissible Limits 2. Identification	T

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Demonstrate a knowledge of different items of lifting equipment including, uses, pre-use inspection and rejection criteria.	4.1	<b>Chain Slings</b> 1. Identification 2. Marking 3. Assembly 4. Chain Clutch 5. Hooks 6. Pre Use Inspection 7. Rejection Criteria	T
	4.2	<b>Textile Slings – Roundslings Web Slings</b> 1. Materials 2. Identification 3. Colour Coding 4. Effects of Acids/Alkalis 5. Pre Use Inspection 6. Rejection Criteria	T
	4.3	<b>Steel Wire Rope Steel Wire Rope Slings</b> 1. Manufacture 2. Construction 3. Lay 4. Broken Wires 5. Terminations 6. Pre Use Inspection 7. Rejection Criteria	T
	4.4	<b>Shackles</b> 1. Dee & Bow 2. Uses & Limitations 3. Pre Use Inspection 4. Rejection Criteria	T
	4.5	<b>Eyebolts</b> 1. Dynamo/Collar/Eyebolt with Link 2. Uses & Limitations 3. Restrictions 4. Pre Use Inspection 5. Rejection Criteria 6. New Products (Optional)	T
	4.6	<b>Rings &amp; Links</b> 1. Types 2. Uses & Limitations 3. Pre Use Inspection 4. Rejection Criteria	T
	4.7	<b>Rigging Screws</b> 1. Types 2. Uses & Limitations (Inline Only) 3. Pre Use Inspection & Rejection Criteria	T
	4.8	<b>Hand Chain Blocks</b> 1. Lifting Chain 2. Uses & Limitations 3. Pre Use Inspection 4. Rejection Criteria	T
	4.9	<b>Lever Hoists</b> 1. Uses & Limitations 2. Pre Use Inspection	T

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Demonstrate a knowledge of different items of lifting equipment including, uses, pre-use inspection and rejection criteria.	4.10	<b>Jaw Winches i.e. Tirfor</b> 1. Uses & Limitations 2. Ropes 3. Pre Use Inspection	T
	4.11	<b>Jacks – Manual / Hydraulic</b>	T
	4.12	<b>Beam Clamps/Beam Trolleys</b> 1. Uses & Limitations 2. Pre Use Inspection	T
	4.13	<b>Spreader Beams</b> 1. Used & Limitations 2. Assembly 3. Pre Use Inspection	T
	4.14	<b>Fibre Rope</b> 1. Materials 2. Identification 3. Uses 4. Pre Use Inspection 5. Rejection Criteria	T
	4.15	<b>Plate Clamps</b> 1. Uses 2. Markings 3. Pre Use Inspection	T
	4.16	<b>Fork Attachments</b> 1. Uses 2. Marking 3. Pre Use Inspection	T
	4.17	<b>Snatch Blocks</b> 1. Types 2. Uses 3. Marking 4. Pre Use Inspection	T
	4.18	<b>Electric Hoists</b> 1. Uses 2. Marking 3. Pre Use Inspection	T
	4.19	<b>Shear Legs / Tripods</b> 1. Uses 2. Marking 3. Pre Use Inspection	T
	4.20	<b>Portable Gantry</b> 1. Uses 2. Marking 3. Pre Use Inspection	T
	4.21	<b>Machine Skates</b> 1. Types 2. Uses 3. Marking 4. Pre Use Inspection	T
	4.22	<b>Load Links</b> 1. Types 2. Marking 3. Pre Use Inspection	T
4.23	<b>Lifting Clutches / Man Hole Lifting Pins</b> 1. Types 2. Marking 3. Pre Use Inspection	T	

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Carry out a pre-use inspection of various Items of Lifting Equipment and identifying the faults.	6.1	Mechanically Assembled Chain Sling	P
	6.2	Textile sling	P
	6.3	Steel Wire Rope Sling	P
	6.4	Shackle(s)	P
	6.5	Eyebolt(s)	P
	6.6	Hand Operated Chain Block	P
	6.7	Lever Hoist	P
	6.8	Jaw winches i.e. Tirfor	P
	6.9	Jacks – Manual / Hydraulic	P
	6.10	Beam Clamp / Beam Trolleys	P
	6.11	Plate Clamps	P
	6.12	Snatch Blocks	P
	6.13	Lifting Clutches	P
	6.14	Man Hole Lifting Pins	P

\* Method of testing is by either a Theoretical exam (T) or Practical (P) assessment