

## Construction Safety Guidelines No. 19

## Mobile Cranes

 	 	
<p style="text-align: center;"><b>SELECTION OF CRANE</b></p> <ul style="list-style-type: none"> <li>Select the right crane for the load to be lifted.</li> <li>Crane must be of good mechanical construction of sound material, adequate strength &amp; free from any defect.</li> <li>Risk assessments (RA) must be carried out for all mechanical lifting.</li> <li>Method of lifting as per the RA must be communicated to all those involved.</li> <li>Detail of crane capacities at various radiuses must be displayed prominently. Cranes over 1 ton capacity must be fitted with SLI.</li> <li>Provide proper access &amp; egress to operator's cabin.</li> <li>Ensure that limit switches are in working condition.</li> </ul>	<p style="text-align: center;"><b>TESTING &amp; CERTIFICATION</b></p> <ul style="list-style-type: none"> <li>Lifting equipment must be tested every <b>12</b> months through EHS approved third party. (test <b>6</b> monthly if persons are lifted e.g. man riding basket)</li> <li>Lifting must be done under the supervision of appointed person with relevant experience.</li> <li>Crane operator, signaler / slinger must have competency certificate issued by an EHS approved third party.</li> <li>Carry out weekly service inspection of crane which must be recorded in a register.</li> <li>Ensure that all operators, signaler / slingers are medically fit &amp; have good eye sight.</li> </ul>	<p style="text-align: center;"><b>POSITIONING OF CRANE &amp; RIGGING</b></p> <ul style="list-style-type: none"> <li>Ground must be leveled &amp; compacted &amp; shall be stable for positioning of crane.</li> <li>Ensure that the crane does not possess any hazard to other workers &amp; moving traffic.</li> <li>Outriggers must be used with pads below.</li> <li>Make use of safe &amp; tested lifting tackle marked with SWL on it.</li> <li>Lifting tackle must not be altered, lengthened or repaired.</li> <li>Do not position the crane unsafely near excavated pit or trench.</li> <li>Lifting tackle must be free from any defects.</li> <li>All cranes must maintain a clear distance of <b>3 metres</b> from 50 KV power lines.</li> </ul>
		
<p style="text-align: center;"><b>TRAINING &amp; PPE</b></p> <ul style="list-style-type: none"> <li>Main contractor must ensure that people involved in lifting operation are competent to carryout their work safely.</li> <li>Use PPE as identified in RA &amp; as recommended in the manufacturer's operation manual.</li> </ul>	<p style="text-align: center;"><b>COMMUNICATION</b></p> <ul style="list-style-type: none"> <li>Provide effective means of communication between the crane operators &amp; signalers, slingers.</li> <li>Provide radio communication when there is no clear line of sight between the crane operator &amp; signaler / slinger.</li> </ul>	<p style="text-align: center;"><b>LIFTING</b></p> <ul style="list-style-type: none"> <li>Cordon off the area where lifting is carried out.</li> <li>Display adequate safety notices.</li> <li>Do not operate the crane in high winds, refer crane manual.</li> <li>Lifting accessories must be thoroughly examined by a competent person every <b>6</b> months.</li> </ul>