
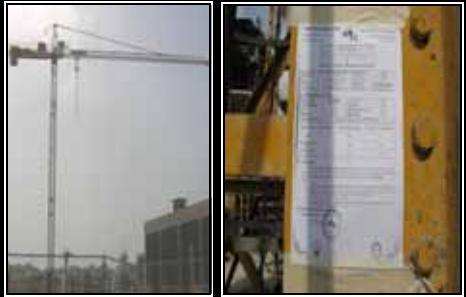



EHS Guidance Notes



GN # 20 – Tower Cranes

Environment, Health and Safety
Ports, Customs & Free Zone Corporation




		
LOCATION / POSITIONING	TESTING & CERTIFICATION	LIFTING
<ul style="list-style-type: none"> ▪ Crane must be of good mechanical construction, sound material, adequate strength and free from any defect. ▪ Risk Assessments (RA) must be carried out for all mechanical lifting. ▪ Detail of crane capacities at various radiuses must be displayed prominently. ▪ Cranes over 1 ton capacity must be fitted with SLI. ▪ Provide proper access & egress to operators cabin. ▪ Wherever possible ensure cranes are positioned to avoid collision ▪ Position the crane such that it does not possess any hazard to others. ▪ Where it is possible for 2 or more cranes can collide, anti collision devices must be installed. ▪ Ensure that the highest crane is fitted with anemometer & kept in good working condition. ▪ Do not operate the crane in high winds refer crane manual. 	<ul style="list-style-type: none"> ▪ Lifting equipment must be tested every 12 months & also after any modification (i.e.jumping) through EHS approved third party. (test 6 monthly if persons are lifted e.g. man riding basket) ▪ Crane operator, signaler / slinger must have competency certificate issued by an EHS approved third party. ▪ Carry out weekly service inspection of the crane which must be recorded in a register. ▪ Ensure that all operators are medically fit & have good eye sight. ▪ Lifting must be done under the supervision of appointed person with relevant experience. 	<ul style="list-style-type: none"> ▪ Method of lifting as per the risk assessment must be communicated to all those involved. ▪ Lifting operations must be planned, supervised, monitored & reviewed. ▪ Ensure that people involved in any lifting operation are competent to carryout their work safely. ▪ Lifting accessories must be safe & thoroughly examined by a competent person every 6 months. ▪ Lifting tackle must not be altered or repaired. ▪ Lifting tackle must be free from any defects. ▪ Ensure that SWL is marked on the tested slings. ▪ Cordon of the area & display adequate safety notices.

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<p>COMMUNICATION</p>	<p>TRAINING & PPE</p>	<p>CLIMBING FRAMES & EMERGENCY</p>
<ul style="list-style-type: none"> ▪ Provide effective means of communication between the crane operators & signalers, slingers. ▪ When there is no clear line of sight between operators & signalers and when tower crane is erected more than 35 mtrs. height from ground to the operators cab, provide radio communication. 	<ul style="list-style-type: none"> ▪ All operators, signalers, slingers to be trained & certified by EHS approved third party. ▪ Use PPE as identified in RA & as recommended in the manufacturer’s operation manual. 	<ul style="list-style-type: none"> ▪ Climbing frame used in the tower crane must be tested & certified by a competent third party engineer. ▪ Emergency procedure to be in place in case of any emergency. ▪ Display emergency contact numbers. ▪ Ensure that all the limit switches are in working condition.