

Practical Test N102 Tower Crane

	ACTIVITY GUIDELINES
Test sequence	The learner must: -
	All pre-start and running checks must be completed before any activity takes place
	The shutdown procedures must only be completed by the learner at the end of the test
	All additional test requirements can be completed over the period of the test duration
Operator safety and observations	The lift plan, method statement and risk assessment must be followed at all times
	The tower crane must be supplied with the correct operator's manual, be serviceable, certificated, meet the current legislation and fitted with the manufacturers LMI / RCI device
	Radio communications and signals must be agreed between the slinger signaller and operator before the test starts
	The instructor and learner should check that there are fire / evacuation and rescue / emergency procedures in place before any activity takes place
	The anemometer or other wind speed indicator must be included in the daily pre-use checks
Specified loads	Load 1 1 x load which is 75% of the cranes rated capacity at full radius with 2 falls of rope
	Load 2 1 x load consisting of a structure or a tube no less than 5 metres in length
	Load 3 Should consist of a general purpose concrete pouring skip or a suitable and sufficient substitute that can be used to simulate a concrete pour
Setting up in	Prepare and set the crane for each lift
preparation for	Flat area to allow lifting and placing of load
work	Area and obstacles suitable for out of sight lifts
Carry out lifting tasks	Lift 1: Lift load 1 and position at least 90% of the maximum radius, rotate 180° stop then land the load at minimum radius. Lift and land the load at a designated position at mid-radius. On completion lift the load at mid radius and set it at 75% of the cranes radius and rotate 90° over a structure and land the load in the original position
	Lift 2: Lift load 2 from minimum radius, rotate at least 360°keeping the load at a constant height and land in a designated place, then re-lift and return and land in original position. On completion lift the load and land at a designated out of sight position, re-lift and return and land in original position
	Lift 3: Lift load 3 and simulate pouring a wall keeping in a straight line for at least 6 meters
Shutdown	Put the crane in the out-of-service condition ensuring that the jib is free to "weather
procedures	vane". On luffing jib tower cranes it is also important that the jib is left at the correct out of service radius (specified by the crane manufacturer) with the hook fully raised



Practical Test N102 Tower Crane

Additional notes specifications	 The tower crane selected must be fully erect and cab controlled, in a serviceable condition and conform with current legislation Full radius equates to the configuration of the crane being used for the test The slinger signaller used to attach loads must be certificated with a recognised indate qualification All lifting accessories must be certificated and fit for purpose All loads to be landed within 100mm of designated landing point Hand signals shall conform with the current BS 7121(if applicable) The weight of all loads must be known and clearly marked on the load It is imperative that the NPORS instructor checks that their learner has programmed the RCI / LMI correctly before carrying out each activity All loads must be made safe and secure after landing When simulating pouring a wall on lift 3 the slew and radius change functions are
	used simultaneously Lift 2 should follow the ground contours and able to be handled by the slinger signaller in the distribution and the distribution and the simultaneously.
Test timings	The full test must be completed within 1hr 30 min
Note	It is recommended that all learners completing basic training receive a minimum 7hr Health, Safety, Environment and Induction Training