

Practical Test N101 Mobile Crane

Test sequence	ACTIVITY GUIDELINES The learner must: <ul style="list-style-type: none"> • Complete all pre-start and running checks before any activity takes place • Only complete the shutdown procedures at the end of the test • All additional test requirements can be completed in any order
Operator safety & observations	<ul style="list-style-type: none"> • Seat belt must be worn if stated in the employer's risk assessment/method statement • The crane must be serviceable, certificated, meets the current legislation and fitted with the manufacturers LLI / RCI device • The crane must be fitted with at least four outriggers and have relevant legible duty charts available to be used during the test
Travelling to work area	The learner must: <ul style="list-style-type: none"> • Travel to the work area • Reverse through a restricted area • Travel over varying terrain
Specified loads	<ul style="list-style-type: none"> • Load 1 must be within the manufacturers duty chart for 3 falls of rope • Load 2 must be within the manufacturers duty chart for 2 falls of rope • Load 3 must consist of tubes (or tubular structure) no less than 6m in length • Load 4 must be at least 50% of the SWL at 75% of the max radius of the crane
Setting up in preparation for work	<ul style="list-style-type: none"> • Prepare and set up the crane for each lift • When required change the number of falls on the rope from 2>3 or 3>2 • Prepare area for out of sight lifts • Flat area to allow lifting and placing of load • Flat area to allow lifting, travelling and placing of loads (if applicable)
Carry out lifting tasks	<ul style="list-style-type: none"> • Lift load 1: Using 3 falls of rope lift a load from mid-radius point and rotate 280°, land load at a designated mid-radius point • Lift load 2: Simulate a concrete pour by travelling the load in a straight line using both the slew and radius controls simultaneously keeping the load 1m high for a horizontal distance of at least 8m and land the load • Lift load 3: Set the crane boom / jib at minimum radius, slew at least 360° and return the load to its original position • Lift load 4: Lift an out of sight load set at 75% of the cranes maximum radius, and land at a designated point at the cranes minimum radius. Lift load from minimum radius and rotate 180° and land the load at the cranes mid-radius Lift the load and rotate at least 360° and I return to the original out of sight position set at the cranes maximum radius • For pick and carry duties (if applicable) lift load 2 and travel with a suspended load for at least 10m then land at a designated place
Shutdown procedures	Crane parked on firm level ground in a safe position with boom set in the travel position, hook block secure, engine and isolator key removed and handed to the instructor
Additional notes specifications	<ul style="list-style-type: none"> • A verbal description to the instructor of the pre-start checks would be acceptable if the machine is hot • The operator's manual must be accessible • The restriction must be no wider than the crane plus 900mm • The slinger signaller used to attach loads must be certificated with a recognised in-date qualification • All lifting accessories must be certificated and fit for purpose • The weight of all loads must be known • All loads to be landed within 100mm of designated landing point • Both radio communication and hand signals must be used when lifting load 4 • All hand signals shall conform with BS7121 Part1:2016 • 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 / LLI correctly before carrying out each activity • All loads must be made safe after landing
Test timings	The full test must be completed within 3 hours
Note	It is recommended that all learners completing basic training receive a minimum 7hr Health, Safety, Environment and Induction Training