Mobile Crane Operator

T ask 1 1.01	NOA Structure 2013 COMMON OCCUPATIONAL SKILLS Performs safety related functions Maintains a safe work environment. Uses personal protective equipment (PPE) and safety equipment.	Moved to:	1	.01	NEW RSOS Structure 2021 PERFORMS COMMON OCCUPATIONAL SKILLS Performs safety related functions Maintains safe work environment Uses personal protective equipment (PPE) and safety equipment Uses documentation	Moved	from: 2.02
Task 2	Organizes work.						
2.01	Communicates with others.	2.01	Task 2		Uses communication and mentoring techniques	NEW	
2.02	Uses documentation.	1.03			Uses communication techniques Uses mentoring techniques		2.01
BLOCK B	HOISTING CALCULATIONS		MWA B	}	PERFORMS HOISTING CALCULATIONS		
	Determines load weights.		Task 3		Determines load weights		
	Identifies the weight.				Identifies weight		
3.02	Calculates weight.		3	.02	Calculates weight		
Task 4	Calculates crane capacity.		Task 4		Calculates crane capacity		
4.01	Determines radius and crane configuration.		4	.01	Determines radius and crane configuration		
4.02	Interprets load charts.		4	.02	Interprets load charts		
Γask 5	Performs rigging calculations.		Task 5		Performs rigging calculations		
5.01	Performs sling angle calculations		5	.01	Performs sling angle calculations		
5.02	Performs working load limit (WLL) calculations.		5	.02	Performs working load limit (WLL) calculations		
вьоск с	CRANE INSPECTION AND MAINTENANCE		MWA C	;	INSPECTS AND MAINTAINS CRANE		
Гask 6	Performs pre-operational checks and regular inspections.		Task 6		Performs pre-operational checks and regular inspections		
6.01	Inspects engine systems.		6	.01	Inspects engine systems		
	Inspects air systems.				Inspects air systems		
	Inspects electrical systems.				Inspects electrical systems		
	Inspects hydraulic systems.				Inspects hydraulic systems		
	Inspects chassis/car body and running gear components.				Inspects chassis/car body and running gear components		
	Inspects outriggers and counterweights.				Inspects outriggers and counterweights		
	Inspects boom components and attachments.				Inspects boom components and attachments		
6.08	Inspects hoisting systems.		6	80.	Inspects hoisting systems		

Task 7 Performs operational and continual checks.

- 7.01 Checks operating controls.
- 7.02 Inspects monitoring and warning systems.
- 7.03 Monitors running lines, hoist lines and standing ropes.
- 7.04 Monitors gauges and warning systems.

Task 8 Performs minor crane maintenance.

- 8.01 Changes oil and filter.
- 8.02 Greases crane
- 8.03 Lubricates wire ropes.
- 8.04 Makes minor adjustments and replacements.

BLOCK D RIGGING

Task 9 Inspects, maintains and stores slings and hardware.

- 9.01 Lubricates slings and hardware.
- 9.02 Identifies deficiencies in slings and hardware.
- 9.03 Disposes of damaged slings and hardware.
- 9.04 Stores slings and hardware.

Task 10 Follows rigging procedures.

- 10.01 Selects required rigging.
- 10.02 Rigs loads.
- 10.03 Monitors rigging.

BLOCK E LIFT PLANNING, SITE PREPARATION AND CRANE SETUP Task 11 Performs pre-lift planning.

- 11.01 Participates in routine, engineered and specialty lift planning.
- 11.02 Evaluates risks and hazards.

Task 12 Sets up crane.

- 12.01 Performs final site inspection.
- 12.02 Positions crane.
- 12.03 Completes setup.

Task 7 Performs operational and continual checks

- 7.01 Checks operating controls
- 7.02 Inspects monitoring and warning systems
- 7.03 Monitors running lines, hoist ropes and standing ropes
- 7.04 Monitors gauges and warning systems
- 7.05 Monitors support base

NEW

Task 8 Performs crane maintenance

- 8.01 Changes oil and filter
- 8.02 Greases crane
- 8.03 Lubricates wire ropes
- 8.04 Makes adjustments and replacements

MWA D PERFORMS RIGGING

Task 9 Inspects, maintains and stores slings and hardware

- 9.01 Lubricates slings and hardware
- 9.02 Identifies deficiencies in slings and hardware
- 9.03 Disposes of damaged slings and hardware
- 9.04 Stores slings and hardware

Task 10 Follows rigging procedures

- 10.01 Selects required rigging
- 10.02 Rigs loads
- 10.03 Monitors rigging

MWA E PLANS LIFT, PREPARES SITE AND SETS UP CRANE

Task 11 Performs pre-lift planning

- 11.01 Participates in routine, engineered and specialty lift planning
- 11.02 Evaluates risks and hazards

Task 12 Sets up crane

- 12.01 Performs final site inspection
- 12.02 Positions crane
- 12.03 Completes setup

Task 13 13.01	CRANE ASSEMBLY, DISASSEMBLY AND TRANSPORT Loads and unloads components for transport. Loads crane and components. Unloads crane and components.	MW. Tasi	k 13 13.01	ASSEMBLES, DISASSEMBLES AND TRANSPORTS CRANE Loads and unloads components for transport Loads crane and components Unloads crane and components		
Task 14	Drives cranes on public roadways.	Tasl	k 14	Drives cranes on public roadways		
	Performs pre-trip planning.			Performs pre-trip planning		
	Prepares crane for transport.			Prepares crane for transport		
14.03	Drives cranes.		14.03	Drives cranes		
Task 15	Assembles and disassembles lattice boom cranes.	Tasl	k 15	Assembles and disassembles lattice boom cranes		
	Installs tracks on car body (lattice boom).		15.01	Installs tracks on car body (lattice boom)		
	Installs house (lattice boom).			Installs superstructure/upperworks (lattice boom)		
	Installs outrigger boxes (lattice boom).			Installs outrigger boxes (lattice boom)		
	Installs boom base (lattice boom).			Installs boom base (lattice boom)		
	Assembles boom and jib (lattice boom).		15.05	Installs counterweights (lattice boom)		15.05
	, ,		15.06			
	Installs counterweights (lattice boom).			Assembles main boom, tip and boom attachments (lattice boom)		
	Installs hoist lines, hook blocks and overhaul ball (lattice boom). Removes hoist lines, hook blocks and overhaul ball (lattice		15.07	Installs hook blocks and overhaul ball (lattice boom)		15.07
15.08	boom).		15.08	Removes hook blocks and overhaul ball (lattice boom)		
			15.09	Disassembles main boom, tip and boom attachments (lattice		
15.09	Disassembles boom and jib (lattice boom).			boom)		15.09
15.10	Removes counterweights (lattice boom).		15.10	Removes counterweights (lattice boom)		
15.11	Removes boom base (lattice boom).		15.11	Removes boom base (lattice boom)		
15.12	Removes house (lattice boom).		15.12	Removes superstructure/upperworks (lattice boom)		15.12
15.13	Removes tracks from car body (lattice boom).		15.13	Removes tracks from car body (lattice boom)		
15.14	Removes outrigger boxes (lattice boom).		15.14	Removes outrigger boxes (lattice boom)		
Task 16	Assembles and disassembles telescopic boom cranes.	Tasl	k 16	Assembles and disassembles telescopic boom cranes		
	Installs outrigger boxes (telescopic boom).			Installs tracks on car body (telescopic boom)	NEW	
	Installs main boom (telescopic boom).	16.04		Installs outrigger boxes (telescopic boom)		
	Installs hoist lines, hook blocks and overhaul ball (telescopic			,		
	boom).	16.05	16.03	Installs superstructure/upperworks (telescopic boom)	NEW	
	Installs counterweights (telescopic boom).	16.06		Installs main boom (telescopic boom)		
	Installs swing-away jibs and inserts (telescopic boom).	16.06		Installs hook blocks and overhaul ball (telescopic boom)		
	Removes swing-away jibs and inserts (telescopic boom).	16.07		Installs counterweights (telescopic boom)		
	Removes counterweights (telescopic boom).	16.09		Installs jibs and inserts (telescopic boom)		
	Removes hoist lines, hook blocks and overhaul ball (telescopic			. , ,		
16.08	boom).	16.10	16.08	Removes jibs and inserts (telescopic boom)		

16.09 Removes main boom (telescopic boom).16.10 Removes outrigger boxes (telescopic boom).	16.11 16.09 Removes counterweights (telescopic boom) 16.12 16.10 Removes hook blocks and overhaul ball (telescopic boom) 16.11 Removes main boom (telescopic boom) 16.12 Removes outrigger boxes (telescopic boom) 16.13 Removes tracks from car body (telescopic boom) 16.14 Removes superstructure/upperworks (telescopic boom) NEV	
Assembles and disassembles specialty equipment and	Assembles and disassembles specialty equipment and	
Task 17 attachments.	Task 17 attachments	
17.01 Assembles specialty equipment and attachments.	17.01 Assembles specialty equipment and attachments	
17.02 Disassembles specialty equipment and attachments.	17.02 Disassembles specialty equipment and attachments	
BLOCK G CRANE OPERATIONS	MWA G OPERATES CRANE	
Task 18 Performs common craning operations.	Task 18 Performs common craning operations	
18.01 Configures load moment indicator (LMI).	18.01 Configures load moment indicator (LMI)	
18.02 Mobilizes crane on jobsite.	18.02 Mobilizes crane on jobsite	
Task 19 Operates friction drive lattice boom cranes.	Task 19 Operates friction drive lattice boom cranes	
19.01 Operates friction drive crawler-mounted lattice boom cranes	19.01 Operates friction drive crawler-mounted lattice boom cranes	
19.02 Operates friction drive truck-mounted lattice boom cranes	19.02 Operates friction drive truck-mounted lattice boom cranes	
Task 20 Operates hydraulic drive lattice boom cranes	Task 20 Operates hydraulic drive lattice boom cranes	
20.01 Operates hydraulic drive crawler-mounted lattice boom cranes.	20.01 Operates hydraulic drive crawler-mounted lattice boom cranes	
20.02 Operates hydraulic drive truck-mounted lattice boom cranes.	20.02 Operates hydraulic drive truck-mounted lattice boom cranes	
Task 21 Operates telescopic boom cranes.	Task 21 Operates telescopic boom cranes	
21.01 Operates crawler-mounted telescopic cranes.	21.01 Operates crawler-mounted telescopic cranes	
21.02 Operates rubber-mounted telescopic cranes.	21.02 Operates rubber tire-mounted telescopic cranes	
Task 22 Performs specialty craning operations.	Task 22 Performs specialty craning operations	
22.01 Operates piledriver.	22.01 Operates crane with piledriving equipment	
22.02 Performs duty cycle operations.	22.02 Performs duty cycle operations	
22.03 Operates cranes on barges.	22.03 Operates cranes on floating platforms	
22.04 Performs multi-crane lifts.	22.04 Performs multi-crane lifts	
22.05 Uses personnel hoisting equipment.	22.05 Uses personnel hoisting equipment	
Task 23 Secures crane.	Task 23 Secures crane	
23.01 Secures crane for short term.	23.01 Secures crane for short term	