

Essential Function – Physical Demand Assessment

Position: Maintenance Worker, Maintenance Worker-Inspector, Lead Worker

<p>The activities are considered basic job duties that, an employee must be able to perform, with or without reasonable accommodation. The job duties are considered Essential Functions for the position listed above.</p>					
	Weight	Start Lift	End Lift	Action	Essential
<b>Jumping Jack compactor (mandatory team or mechanical lift)</b>	156 lbs.	Waist	Waist + 6"	Lift	x
<b>4" diameter x 18' ductile Lifting one end off of the ground (mandatory team or mechanical lift)</b>	134 lbs.	0	42"	Lift	x
<b>Pulling Rigid Sewer machine up ramp</b>	123 lbs.	Waist	Waist	Pull + 6"	x
<b>6" Diameter x 5' Clay pipe</b>	98.5 lbs.	0	42"	Lift/Carry	x
<b>Bags of mortar, cement or sand</b>	90 lbs.	0	38"	Lift/Carry	x
<b>Lateral Cameras (optional mechanical lift)</b>	90 lbs.	0"	42"	Lift	x
<b>Jack-hammer</b>	86 lbs.	0	52"	Lift/Carry	x
<b>Lowering tools into the manhole with a rope (mandatory team or mechanical lift)</b>	86 lbs.	Waist	Waist	Lift	x
<b>Hydraulic shoring aluminum 33-55"</b>	80 lbs.	0	42"	Lift/Carry	x
<b>Round baskets with 7 rods</b>	79 lbs.	0	42'	Lift	x
<b>Electric ell</b>	76 lbs.	0	42"	Lift	x
<b>Bollards remove and replace</b>	72 lbs.	24"	52"	Lift	
<b>Manhole-cover replace in-service</b>	74 lbs.	Waist	Waist	Pull	x

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<b>Concrete utility boxes with lid</b>	70 lbs.	0	42"	Lift/Carry	x
<b>18" Pipe Inspection Camera</b>	68 lbs.	0	42"	Lift/Carry	X
<b>15" Pipe Inspection Camera</b>	64 lbs.	0	42"	Lift/Carry	X
<b>Lowering tools into the manhole with a rope</b>	60 lbs.	Waist	Waist	Lift	x
<b>Manhole-cover remove in-service</b>	56 lbs.	Waist	Waist + 6"	Lift	x
<b>Vactor truck tubes assembled 3 totals</b>	55 lbs.	0	60"	Lift	x
<b>Davit Arm (fall protection equipment)</b>	54 lbs.	30"	77"	Lift	x
<b>Debris from excavation (asphalt, cement or rock)</b>	52 lbs.	0	42"	Lift/Carry	x
<b>8" Pipe Inspection Camera</b>	51 lbs.	0	42"	Lift/Carry	X
<b>12' extension ladder</b>	50 lbs.	12"	60"	Lift/Carry	x
<b>6-gallon container enzymes</b>	50 lbs.	18"	32"	Lift/Carry	x
<b>Hose reel swivel (orange hose carrier on the Vactor truck)</b>	50 lbs.	Chest height	Chest height	Push	x
<b>5-Gallon bucket of debris</b>	45 lbs.	12"	54"	Lift/Carry	x
<b>Shoring pump can</b>	45 lbs.	12"	50"	Lift/Carry	x
<b>5-gallon water container</b>	45 lbs.	0	72"	Lift	x
<b>Pull hand over hand continuously for 2 minutes</b>	45 lbs.	Waist	Waist	Pull	x
<b>6" Pipe Inspection Camera</b>	43 lbs.	0	42"	Lift/Carry	X
<b>4" Diameter x 5' Clay pipe</b>	35 lbs.	0	38"		x

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<b>Traffic Cones 5 each</b>	35 lbs.	0	60"	Lift/Carry	x
<b>Cleaning nozzles (various)</b>	≤ 37 lbs.	0	48'	Lift	x
<b>Operate rear slider drawers on camera trucks</b>	33 lbs.	50"	50"	Push	X
<b>Lateral Push Camera</b>	29.5 lbs.	22"	58"	Lift/Carry	x
<b>Vault hatch lid at the wet well</b>	25 lbs.	0	24"	Lift	x
<b>Landscape Debris</b>	25 lbs.	0	42"	Lift/Carry	x
<b>Spraying with hand held tank</b>	25 lbs.	0	50"	Lift/Carry	x
<b>Traffic signage</b>	23 lbs.	0	72"	Lift/Carry	x
<b>Hoist - chain</b>	23 lbs.	0	72"	Lift	x
<b>Pole saw</b>	19.5 lbs.	0	60"	Lift/Carry	x
<b>Weed eater</b>	15 lbs.	0	42"	Lift/Carry	x
<b>Clay pipe fittings</b>	15 lbs.	0	42"	Lift/Carry	x
<b>Positioning ramp on the back of the truck</b>	15 lbs.	30"	36"	Lift/Push	x

Battery of test for Pre-hire or Return to Work Assessment

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Action	Force	Start	End	Frequency
Lift	156 lbs.	Waist	Waist + 6"	1
Lift	134 lbs.	0	42"	1
Lift	98.5 lbs.	0	42"	1
Lift	86 lbs.	0	52"	1
Lift	86 lbs.	Rope at waist	Rope at waist	10
Lift	80 lbs.	0	42"	1
Lift	79 lbs.	0	42"	1
Lift	72 lbs.	42"	52"	1
Lift	68 lbs.	0	42"	1
Lift	56 lbs.	Waist	Waist + 6"	1
Lift	55 lbs.	0	60"	1
Lift	54 lbs.	30"	77"	1
Lift	52 lbs.	0	42"	1
Push	50 lbs.	Chest	Chest	1
Lift	45 lbs.	0	72"	1
Pull	45 lbs.	Waist	Waist	2 minutes
Lift	35 lbs.	0	60"	1
Push	33 lbs.	50"	50"	1