
	Construction Plant-hire Association Tower Crane Interest Group							
	<i>Tower Crane Technical Information Note</i>							
TIN 015	RISK ASSESSMENT – General Access to Tower Cranes (including for maintenance)							
<p>The attached generic risk assessment identifies and specifies control measures for most hazards associated with the general access to tower cranes, including the carrying out of maintenance. The list of hazards is, however, not exhaustive; tower crane owners and users should assess each crane in its specific location to identify any additional hazards. Any such hazards should be assessed to quantify the risk they present and appropriate control measures adopted.</p>								
<i>TIN No.</i>	015	<i>Issue Date</i>	13.07.15	<i>Review Date</i>	13.07.19	<i>Issue</i>	C	Page 1 of 7



Construction Plant-hire Association Tower Crane Interest Group

RISK ASSESSMENT – General Access to Tower Cranes (including for maintenance)

OPERATION	ACTIVITY	HAZARD	SEVERITY (1-low, 3-high)	PROB. (1-low, 5-high)	RISK (1-low, 15-high)	PERSONNEL AFFECTED	CONTROLS	RESIDUAL RISK (Low, Med, High)
Access to cabs and other Zone 1 areas. (TIN 003)	Climbing inclined access ladders with platforms limiting falls to 6m.	Fall from height.	2	1	2	Operator, Maintenance & Examination Personnel, Visitors.	Controlled access to crane. (TIN 001)	Low
	Climbing vertical ladders with platforms limiting falls to 6m.	Fall from height.	2	1	2	Operator, Maintenance & Examination Personnel, Visitors.	Controlled access to crane. (TIN 001)	Low
	Climbing vertical access ladders without platforms limiting falls to 6m.	Fall from height.	3	2	6	Operator, Maintenance & Examination Personnel, Visitors.	Use additional means of fall protection. (TIN 006)	Low
	Climbing access ladders with uneven rung spacing.	Fall from height.	3	2	6	Operator, Maintenance & Examination Personnel, Visitors.	Ensure that uneven rung spacing is rectified before use. (TIN 006)	Low

Note: Access zones are defined in TIN 003

Assessment By:

Date:

Review Date:

OPERATION	ACTIVITY	HAZARD	SEVERITY (1-low, 3-high)	PROB. (1-low, 5-high)	RISK (1-low, 15-high)	PERSONNEL AFFECTED	CONTROLS	RESIDUAL RISK (Low, Med, High)
Access to cabs and other Zone 1 areas (cont.). (TIN 003)	Standing and moving on rest platforms with top guardrails only.	Fall from height.	3	2	6	Operator, Maintenance & Examination Personnel, Visitors.	Improve edge protection. (TIN 008)	Low
	Standing and moving on rest platforms with top and mid guardrails.	Fall from height.	3	1	3	Operator, Maintenance & Examination Personnel, Visitors.	Controlled access to crane. (TIN 001)	Low
	Passing through slewing section of top slew cranes.	Fall from height.	2	1	2	Operator, Maintenance & Examination Personnel, Visitors.	Controlled access to crane. (TIN 001)	Low
		Crushing.	3	2	6	Operator, Maintenance & Examination Personnel, Visitors.	Controlled access to crane. (TIN 001)	Low
	Displacement of loose material.	Falling objects.	3	2	6	Operator, Maintenance & Examination Personnel, Visitors.	Ensure all non essential material is removed before crane is taken into use. Provide storage for small items. Secure essential large items. (TIN 005)	Low
		Slips and trips.	1	2	2	Operator, Maintenance & Examination Personnel, Visitors.	Keep all accessible areas clean and free of loose material at all times. (TIN 005)	Low

Assessment By:

Date:

Review Date:

OPERATION	ACTIVITY	HAZARD	SEVERITY (1-low, 3-high)	PROB. (1-low, 5-high)	RISK (1-low, 15-high)	PERSONNEL AFFECTED	CONTROLS	RESIDUAL RISK (Low, Med, High)
Access to counter jibs and other Zone 2 areas. (TIN 003)	Standing and moving on platform areas with top guardrails only.	Fall from height.	3	2	6	Operator, Maintenance & Examination Personnel, Visitors.	Improve edge protection (TIN 008)	Low
	Standing and moving on platform areas with missing guardrails and apertures in floor.	Fall from height.	3	2	6	Operator, Maintenance & Examination Personnel, Visitors.	Install missing edge/floor protection (TIN 008)	Low
	Standing and moving on platforms with top and mid guardrails.	Fall from height.	3	1	3	Operator, Maintenance & Examination Personnel, Visitors.	Controlled access to crane (TIN 001)	Low
	Moving into the vicinity of equipment such as winches and running ropes.	Entanglement. Drawing in. Crushing. Shearing.	2	3	6	Operator, Maintenance & Examination Personnel, Visitors.	Controlled access to crane (TIN 001)	Low
	Displacement of loose material.	Falling objects.	3	2	6	Operator, Maintenance & Examination Personnel, Visitors.	Ensure all non essential material is removed before crane is taken into use. Provide storage for small items. Secure essential large items. (TIN 005)	Low
Access to counter jibs and other Zone 2 areas (cont.) (TIN 003)		Slips and trips.	1	2	2	Operator, Maintenance & Examination Personnel, Visitors.	Keep all accessible areas clean and free of loose material at all times. (TIN 005)	Low

Assessment By:

Date:

Review Date:

OPERATION	ACTIVITY	HAZARD	SEVERITY (1-low, 3-high)	PROB. (1-low, 5-high)	RISK (1-low, 15-high)	PERSONNEL AFFECTED	CONTROLS	RESIDUAL RISK (Low, Med, High)
Access to jibs and other Zone 3 areas. (TIN 003)	Climbing access ladders with uneven rung spacing	Fall from height.	3	2	6	Maintenance & Examination Personnel.	Ensure that uneven rung spacing is rectified before use. (TIN 006)	Low
	Climbing access ladders.	Fall from height.	3	2	6	Maintenance & Examination Personnel.	Use additional means of fall protection. (TIN 006)	Low
	Standing and moving on rest platforms without edge protection..	Fall from height.	3	2	6	Maintenance & Examination Personnel.	Provide suitable fall protection with rescue arrangements (if required).	Low
	Walking along jib.	Fall from height.	3	2	6	Maintenance & Examination Personnel.	Provide suitable fall protection with rescue arrangements (if required).	Low
Carrying out maintenance in Zone 1 areas	Raising and lowering tools and materials.	Falling object.	3	2	6	Maintenance & Examination Personnel.	Use correct procedures for raising and lowering small materials. (TIN 002)	Low
	Displacement of loose material.	Falling objects.	3	2	6	Maintenance & Examination Personnel.	Ensure all non essential material is removed before crane is taken into use. Provide storage for small items. Secure essential large items. (TIN 005)	Low
Carrying out maintenance in Zone 2 areas.	Raising and lowering tools and materials.	Falling object.	3	2	6	Maintenance & Examination Personnel.	Use correct procedures for raising and lowering small materials. (TIN 002)	Low
	Displacement of loose material.	Falling objects.	3	2	6	Maintenance & Examination Personnel.	Ensure all non essential material is removed before crane is taken into use. Provide storage for small items. Secure essential large items. (TIN 005)	Low

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OPERATION	ACTIVITY	HAZARD	SEVERITY (1-low, 3-high)	PROB. (1-low, 5-high)	RISK (1-low, 15-high)	PERSONNEL AFFECTED	CONTROLS	RESIDUAL RISK (Low, Med, High)
Carrying out maintenance in Zone 2 areas.	Moving into the vicinity of equipment such as winches and running ropes.	Entanglement. Drawing in. Crushing. Shearing.	2	3	6	Maintenance & Examination Personnel.	Controlled access to crane. (TIN 001) Use of trained, assessed and authorised personnel.	Low
Carrying out maintenance in Zone 3 areas.	Raising and lowering tools and materials.	Falling object.	3	2	6	Maintenance & Examination Personnel.	Use correct procedures for raising and lowering small materials. (TIN 002)	Low
	Displacement of loose material.	Falling objects.	3	2	6	Maintenance & Examination Personnel.	Ensure all non essential material is removed before crane is taken into use. Provide storage for small items. Secure essential large items. (TIN 005)	Low
	Moving into the vicinity of equipment such as winches and running ropes.	Entanglement. Drawing in. Crushing. Shearing.	2	3	6	Maintenance & Examination Personnel.	Controlled access to crane (TIN 001) Use of trained, assessed and authorised personnel	Low
	Working on platforms and other areas without edge protection..	Fall from height.	3	2	6	Maintenance & Examination Personnel.	Provide suitable fall protection with rescue arrangements (if required)	Low

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