

Risk Assessment – Manual Handling: Rigging & De-rigging

Notes:

1. The people that might be harmed: Studioworks employees, contractors
2. The Likelihood of injury is reduced if the correct procedures are followed
3. It is not reasonably practicable to avoid moving loads
4. Use mechanical aids: Tow Tractor, Lighting Trailer, Drop Arm Barrow, Mobile Support Working Platform, Trailers and Scenic Hoists; this will reduce repetitive handling and/or physical prolonged effort.
5. If equipment is housed in flight cases/boxes, transport and position as close to the relevant mounting points for rigging and de-rigging.
6. See OTHER FACTORS for items of lighting with special handling requirements

HAZARD		CONTROLS
TASK ASSESSMENT – Do the tasks involve:		
Holding or manipulating loads away from the trunk?	Yes	<ul style="list-style-type: none"> • Loading/unloading from lighting boxes, avoid twisting, stooping and reaching upwards. • Lift from floor level/lighting boxes to lighting monopoles, coat hangers and/or drop arms.
Unsatisfactory body movement or posture?	Yes	<ul style="list-style-type: none"> • Use proper manual handling training techniques.
Excessive lifting, lowering, carrying distances or strenuous pushing or pulling?	Yes	<ul style="list-style-type: none"> • Assess how many persons should be involved in handling items. • Use of tow tractor, lighting trailer, scenic and lighting hoist to be utilised whenever possible.
Risk of unpredictable movement of loads?	No	<ul style="list-style-type: none"> • Items to be stored as near to/in the relevant Studio or in the production stores, this will reduce the amount of repetitive handling or physical effort.
Repetitive handling or frequent or prolonged physical effort?	No	<ul style="list-style-type: none"> • Gaffers should monitor each task / load and individual and ensure adequate breaks are taken out of the working area.

HAZARD		CONTROLS
A work rate imposed by a process or insufficient rest or recovery?	No	
LOAD ASSESSMENT – Are they: Heavy (with mass marked on them), bulky or unwieldy? Difficult to grasp, unstable or unpredictable with contents likely to shift? Sharp, hot or otherwise potentially damaging? Loose items on the load?	Yes Yes Yes No	<ul style="list-style-type: none"> • On some occasions the lamps are unwieldy and bulky depending on the model – assess as required by inspecting beforehand. • Lamps are weight stamped with the mass weight. • x2 or more persons to carryout handling, as required/assessed. • Sometimes difficult to grasp – use proper handling techniques. • Use mechanical aids, whenever possible – lighting monopoles. • Lamps can have sharp edges and after filming the lamps are still hot, potentially there is a risk of burn to fingers and hands – check items prior to handling. • Use PPE as appropriate.
WORKING ENVIRONMENT – Are there: Space constraints preventing good posture, uneven, slippery or unstable floor? Variations in the levels of floors or work surfaces? Extremes of temperature, humidity, ventilation problems or gusts of wind? Poor lighting conditions?	Yes Yes No No	<ul style="list-style-type: none"> • Floor may be slippery. • Raised studio rostrums require consideration when handling. • Adequate lighting is provided in the studios.

HAZARD		CONTROLS
<p>INDIVIDUAL CAPACITY – Does the job:</p> <p>Require unusual strength, height or capability?</p> <p>Create a hazard to those who might be considered to have health problems?</p> <p>Require special information or training for its safe performance?</p> <p>Occur infrequently for people of an otherwise sedentary nature?</p>	<p>No</p> <p>Yes</p> <p>Yes</p> <p>No</p>	<ul style="list-style-type: none"> • Pregnancy, pre-existing medical conditions and / or recent surgery to be taken into account of for those tasked with manual handling. • Manual handling training / scenic training provided.
<p>OTHER FACTORS - consider:</p> <p>Is improvement in posture hindered by PPE, RPE or clothing?</p> <p>Is it possible to eliminate or automate the operation?</p> <p>Follow spots – lifting/lowering</p> <p>Iris 4 Lamp – lifting/lowering from hanging bar via scenic barrow</p>	<p>No</p> <p>No</p> <p>Yes</p> <p>Yes</p>	<ul style="list-style-type: none"> • The lamps are housed in flight boxes that are easily transported and can be positioned as close to the relevant Scenic hoist for rigging or de-rigging. • Use scenic hoist with the stirrup to raise / lower to gantry from lighting boxes. • Iris 4 weight = 31kg, “C” Clamp = 2kg. Use a scenic barrow to move into location. 4+ persons handling required for lifting/lowering from hanging bar into scenic barrow.

HAZARD		CONTROLS
Speakers, Monitors – lifting/lowering	Yes	<ul style="list-style-type: none"> Speakers and monitors are unwieldy and bulky, lift from floor level to lowered lighting monopoles, audience truss and drop arms.