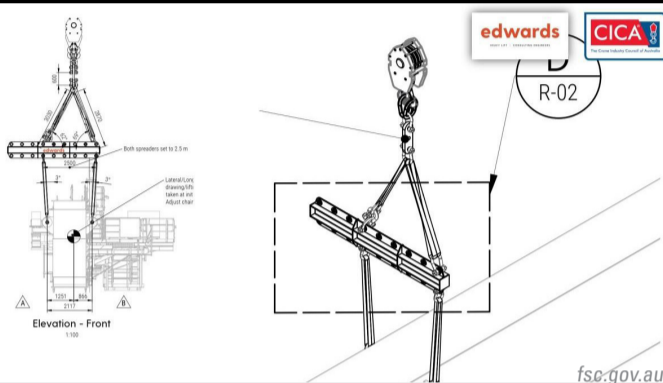


HYER STANDARDS

Cranes and Lifting

The Hansen Yuncken HYer Standards provide guidance on the minimum level of compliance expected for high risk activities on all projects.

Planning



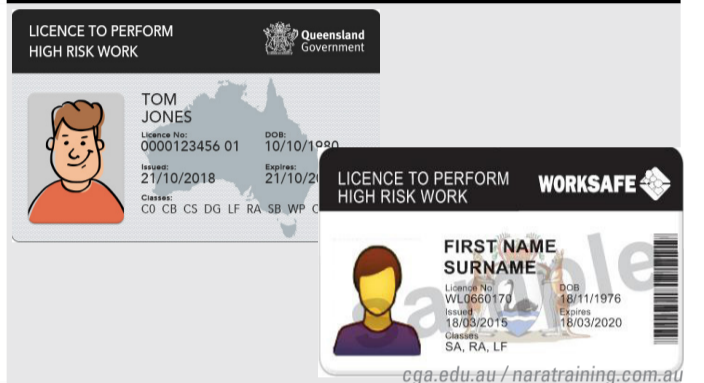
- Crane operators must review lifts, including boom length/angle, radius, gross capacity, net load weight, and travel path
- Documented lift plans must be developed for higher risk/complex lifts such as:
 - Precast Panel Installation
 - Multi Crane Lifts
 - Lifting Personnel in a Lift Cage
 - Erection of/lifts with a Tower Crane
 - Working near live overhead powerlines
 - Lifts > 85% rated Lifting Capacity
 - Heavy lifts where load is >20 tonnes

Crane Set-Up



- The crane location must be assessed for factors that may affect crane stability, risk of collisions, and overhead powerlines
- The crane standing area must be able to withstand forces likely to be imposed on it
- Engineered work platforms must be verified by a geotechnical engineer
- A Plant Setup permit is to be issued for mobile cranes and vehicle mounted cranes using outriggers

Training & Competency



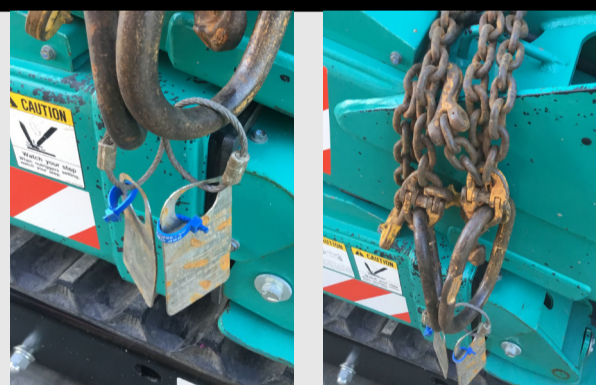
- Personnel involved in crane operations must hold required licence (i.e. relevant high risk work licence (HRWL))
- Tower Crane operators must also have documented evidence of familiarisation training on the crane being operated
- Dogger HRWL required for slinging loads where judgement is required and where directing crane operator when load is out of view of the operator

Operating Conditions



- Load chart(s) are to be available in the crane cabin and operator's manual
- Daily prestarts are to be completed by operators and recorded in the crane's logbook
- A method of positive communication must be established (i.e. designated crane channel or recognised hand/whistle signals)
- Work zones must be established around crane working area

Lifting Equipment



- Lifting equipment must be:
 - Tagged and included in lifting equipment registers with accompanying inspection records
 - Inspected as required by competent person and tagged or marked
 - Visually inspected prior to use and withdrawn from use if damaged
- Soft slings may only be used as a last resort, and are subject to HY approval via the Soft Sling risk assessment process

Falling Objects



- Controls are to be in place to manage the risk of falling objects (i.e. preventing free-fall, or object fall-arrest system)
- Where practicable, loads are not to be lifted over workers or public access areas
- If there is a risk of people being hit by falling objects, control measures such as exclusion zones or suitably designed gantries are to be used



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**CRANES AND LIFTING
PROCEDURE**