

RIGGER AND SLINGER

Aims and Outcomes

This course is designed for candidates to gain the necessary skills to plan, prepare and safely carry out rigging and slinging activities.

On completion of this course, candidates will be able to determine the SWL of gear and materials; select, maintain and inspect fibre ropes, chains, steel and wire ropes; perform splicing techniques and demonstrate a number of bends and hitches; sling, move and place loads; directing cranes.



Prerequisite

There are no prerequisites for this courses.

Course Content

The Rigger and Slinger Plan is based on competencies within the Australian Qualification Framework (AQF):

- Legislation in the Workplace - HSE Acts and regulations; specific regulations dealing with rigging and slinging; roles and responsibility; Company Procedures.
- Plan Work - Crane type and capacity requirements; site requirements and rules; site hazards; priorities; emergency procedures; signals in accordance recognised Standards.
- Fibre Rope - Tag lines; bends and hitches; slings - inspections; W.L.L - breaking strain.
- F.S.W.R. (Flexible Steel Wire Rope) - Slings, construction, inspection - care/maintenance; discard factors in accordance with recognised Standards; W.L.L. - breaking strain; safety factor; crane ropes.
- Synthetic Slings - Flat, round; manufacturer's instructions for use; inspection - care/maintenance; W.L.L. - breaking strain, safety factor.
- Chain Slings - ISO grading; construction; grade markings and manufacturers markings; safety factor; care/maintenance; W.L.L. - breaking strain, safety factor; general use; terminating components - description and use.
- Slinging Practice (Slings in General) - Safe use procedure for all sling types; reeving factors; angle factors; determine capacity required; emphasize single and double wrap.
- Calculation of Mass - Calculate area; calculate volume; estimation using known methods.
- Rigging Appliances - Chain block; chain puller; plate clamp; shackles; spreader/ lifting beam.

- Crane Operation - Pre-start/Pre-operation checks; set-up - G.B.P. outrigger/ stabilizers; load chart interpretation; defined areas of operation; tipping/ structural areas; signalling/ communication; shut down crane; park up.
- Practical Training - Using a crane with crane operator; sling various loads using different slings and components; use tag lines; use appropriate crane signals in accordance with recognised Standards; shut down; park up.

Certification

On successful completion of the training, candidates will be awarded a Futuro Skills Certificate in Rigging and Slings.

Duration

5 days

Maximum Candidates

10 persons