



"making your skills a priority"

**Course Title:** Operate a Tower Crane

**SAQA ID:** 116255

**NQF Level:** 2

**Credits:** 20

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### **Course Description:**

This course provides learners with the knowledge and skills required to operate a tower crane safely and efficiently. It covers key aspects of tower crane operation, including pre-operational inspections, safe lifting practices, load management, and adherence to safety regulations. Emphasis will be placed on the technical aspects of crane operation, as well as communication and coordination with ground personnel.

### **Course Objectives:**

By the end of this course, learners will be able to:

- Conduct pre-operational checks and inspections of a tower crane.
- Safely operate a tower crane to lift, move, and position loads.
- Communicate effectively with ground personnel to ensure safe operations.
- Adhere to safety standards and procedures to prevent accidents during crane operation.

### **Benefits of Completing this Course:**

- Develop specialized skills for operating tower cranes, which are essential in construction and heavy lifting industries.
- Improve workplace safety by learning proper load handling techniques and safety practices.
- Enhance employability and career opportunities in construction and logistics sectors.
- Obtain a recognized certification that supports professional growth in crane operation.

### **Who Should Attend:**

- Construction workers involved in heavy lifting and material handling.
- Crane operators seeking certification and skill enhancement.
- Supervisors and managers overseeing crane operations on construction sites.
- Individuals interested in pursuing a career in crane operation.

### **Assessment:**

Assessment will be based on the learner's ability to:

- Conduct thorough pre-operational checks and inspections.
  - Demonstrate safe and efficient operation of a tower crane.
  - Participate in practical exercises and discussions on load handling and emergency procedures.
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TRAINING AND PROJECTS

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### Specific Outcomes and Assessment Criteria:

By successfully completing this SAQA Unit Standard, learners will demonstrate competency in the following:

#### 1. Conduct Pre-Operational Checks on the Tower Crane:

- Inspect the crane's mechanical and safety features to ensure operational readiness.
- Identify and report any issues or hazards that could affect safety.
- **Assessment Criteria:** Practical assessment of pre-operational inspections and checks.

#### 2. Safely Operate the Tower Crane:

- Control the crane's movements to lift, lower, and position loads with precision.
- Operate the crane effectively in different work conditions and settings.
- **Assessment Criteria:** Practical exercise demonstrating safe and effective crane operation.

#### 3. Manage Loads and Ensure Safe Lifting Practices:

- Assess load weight, dimensions, and stability before lifting.
- Use appropriate rigging techniques to secure loads for safe transport.
- **Assessment Criteria:** Practical assessment focused on load management and lifting techniques.

#### 4. Follow Safety Standards and Emergency Protocols:

- Apply safety procedures to mitigate risks during crane operations.
- Recognize emergency situations and implement correct response measures.
- **Assessment Criteria:** Group discussion and practical exercises on safety compliance and emergency handling.

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By completing this course, learners will acquire the skills and knowledge necessary to operate a tower crane safely and effectively, contributing to enhanced safety and productivity on construction sites.