



TRAINING AND PROJECTS

"making your skills a priority"

**Course Title:** Assemble, Tie, and Install Reinforcing Cages

**SAQA ID:** 262586

**NQF Level:** 2

**Credits:** 12

---

### **Course Description:**

This course provides learners with the knowledge and practical skills required to assemble, tie, and install reinforcing cages for concrete structures. It covers the selection and handling of reinforcement materials, tying techniques, and installation procedures for cages used in structural elements such as beams, columns, and slabs. Emphasis is placed on safety, accuracy, and adherence to industry standards, equipping learners to meet quality and structural specifications in reinforcing work.

### **Course Objectives:**

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

- Identify and select appropriate reinforcement materials for specific construction requirements.
- Assemble and tie reinforcing cages with correct techniques and tools.
- Install reinforcing cages accurately to meet structural specifications.
- Adhere to safety and quality standards throughout the reinforcing process.

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

- Acquire specialized skills for reinforcement work in the construction sector.
- Enhance employability in concrete construction and civil engineering projects.
- Develop confidence in handling and installing reinforcing cages safely and effectively.
- Obtain a recognized qualification that supports career growth in construction.

### **Who Should Attend:**

- Construction workers involved in concrete reinforcement work.
- Apprentices and trainees in construction or civil engineering programs.
- Supervisors and quality control personnel overseeing reinforcement installation.
- Individuals pursuing a career in concrete construction and structural assembly.

### **Assessment:**

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

- Demonstrate knowledge of reinforcement principles and cage assembly techniques.
  - Safely assemble, tie, and install reinforcing cages in specified structures.
  - Participate in discussions and practical activities focused on reinforcement safety and quality.
-



TRAINING AND PROJECTS

"making your skills a priority"

### **Specific Outcomes and Assessment Criteria:**

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

#### **1. Understand Reinforcement Materials and Specifications:**

- Identify and describe types of reinforcing materials and their properties.
- Explain the structural requirements and specifications for reinforcing cages in concrete construction.
- Assessment Criteria: Written assessment on reinforcement materials and specifications.

#### **2. Assemble and Tie Reinforcing Cages:**

- Measure, cut, and tie reinforcing bars to form cages that meet project specifications.
- Use appropriate tools and techniques to tie reinforcing bars securely.
- Assessment Criteria: Practical exercise demonstrating the assembly and tying of reinforcing cages.

#### **3. Install Reinforcing Cages in Concrete Forms:**

- Position and secure reinforcing cages in concrete forms, ensuring alignment and stability.
- Verify installation according to specifications and drawings for structural integrity.
- Assessment Criteria: Practical assessment focused on the accurate installation of reinforcing cages.

#### **4. Adhere to Quality and Safety Standards:**

- Implement safety measures and use personal protective equipment (PPE) during reinforcement work.
- Maintain quality standards to ensure reinforcing cages are correctly assembled and installed.
- Assessment Criteria: Group discussion and practical assessment on quality and safety in reinforcement work.

---

By completing this course, learners will gain the essential skills to assemble, tie, and install reinforcing cages safely and accurately, contributing to the structural integrity and quality of concrete construction projects.