



THE  
LEARNING  
DEVELOPMENT  
GROUP

## Introduction

The accredited Skills Programme: Production Quality Assurance Skills is a practical, occupational NQF level 4 programme for individuals working in production quality assurance in manufacturing and engineering environments.

The programme covers the theory and skills needed to monitor and control the quality of manufacturing practices and processes and resolve non-conformances. Delegates will also cover monitoring machine processes using statistical control charts, solving production problems using specific techniques and approaches, and conducting audits of quality assurance systems.

The Skills Programme offers career progression in the sector and articulates into the FETC: Production Technology, level 4.

## Target Audience

The Skills Programme is aimed primarily at individuals responsible for quality assurance of products and services in the manufacturing, production and engineering sectors.

## Entry Requirements

- Competence in Communication at NQF level 3.
- Competence in Mathematics at NQF level 3.

## Additional Requirements

- You will need access to appropriate workplace projects to complete the practical components of the skills programme.
- Active support and mentorship by your manager.
- Access to a PC, software and the internet.

## Manufacturing & Production

# Production Quality Assurance Skills

### MERSETA Statement of Results

SP ID:	SP 0889/14-17
NQF Level:	4
Credits:	21

## Course Delivery & Assessment

We use a blend of inclass and virtual interactive learning, workplace learning, coaching and mentoring, theoretical assessment, practical workplace observation and self-study to embed skills.

You will need to:

- Attend all sessions.
- Complete practical workplace experiential learning and assignments.
- Demonstrate theoretical and practical understanding of programme content.
- Compile and submit a Portfolio of Evidence (PoE).

To receive your Statement Of Results, Production Quality Assurance Skills, you will need to compile, submit and be found competent on a Portfolio of Evidence (PoE).

## Learning Outcomes

By the end of the skills programme, you will be able to:

- Understand quality assurance practices in a manufacturing and engineering environment.
- Integrate quality assurance practices into a production line and monitor quality.
- Resolve non-conformance to quality.
- Monitor machining processes using various statistical process control charts.
- Recognise problems and identify and rectify causes of machining problems.
- Conduct audits of quality and make recommendations to enhance quality assurance systems.
- Write work instructions, identify statistical outputs, record and report data and conduct product tests to specific quality assurance systems.





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## Course Content

**SP: Production Quality Assurance Skills**  
**Accreditation Body: MERSETA**

**| SETA Skills Programme ID: SP 0889/14-17**  
**| NQF Level: 4 | Credits: 21**

### **Unit Standard 14586: Monitor and Control Quality Control Practices in a Manufacturing and Engineering Environment**

- Demonstrate understanding of quality assurance practices in a manufacturing and engineering environment
- Integrate quality assurance practices into a manufacturing and engineering production line
- Monitor quality during manufacturing and engineering processes
- Resolve non-conformance to quality in manufactured and engineered products

### **Unit Standard 243025: Monitor Machining Process, Interpret Statistical Process Control Charts, and Rectify Production Problems**

- Describe and explain the purpose of quality processes and the relationship to work activities
- Review statistical information and identify unstable processes
- Analyse the process conditions in unstable processes and determine the cause of the problem
- Implement remedial action, monitor and evaluate the effect of changes, and record and report actions

### **Unit Standard 7117: Contribute to and Improve on the Operation of a Quality Assurance System**

- Conduct audits of quality assurance systems
- Make recommendations to enhance quality assurance systems
- Write work instructions
- Identify statistical outputs and record and report data to aid decision making
- Conduct product tests

## Our Accredited Organisations



FACULTY  
TRAINING  
INSTITUTE



Siyangqoba



Siyaya®  
SKILLS INSTITUTE



PROSERV  
SOUTH AFRICA



MBAT  
DEVELOP - EMPOWER - GROW

