

## PRINCIPLES OF QUALITY – NQF LEVEL 2

Duration: 2 days + 1 day follow up  
 Target: Operator level and below  
 Prerequisite: Basic Literacy & Numeracy [ABET 4]  
 NQF Info: NQF Level 2  
 Qualification: National Certificate In Plastics Manufacturing NQF Level 2  
 Credits: 20  
 Certification: MERSETA accredited  
 PFSA Certification.

### Unit Standard:

- Monitor the quality of the input materials, manufactured plastic product [119139]
- Collect and use information [13217]
- Apply basic statistics and probability with regard to data and procedures(re life related problems) [9009]

### Course Objective:

To enable the learner to perform effectively in the field of plastics manufacturing by monitoring the quality of the input materials, the process and the manufactured product.

Outcomes: At the end of the course the learners will be able to:

- Conduct visual checks & measure products, components and materials and conduct initial/operational/on-line tests
- Recognise defects and record production and/or defects and report incidents
- Respond to information or communications, & apply various techniques to organise and represent data in order to model situations for specific purposes
- Use a variety of methods to represent statistics including pie charts, bar graphs, stem and leaf plots
- Read tables, and extract a suitable set of data from tables and databases (e.g. census data, tables in newspapers, weather data)
- Record and organize data into tables, & calculate measures of centre and spread such as mean, median, mode, and range.
- Use quartiles in classifying data items, & understand the implications of the modelled data e.g. determining trends in societal issues such as crime and health.

### Contents:

- Understanding what quality is, what quality means, Rules and principles of quality
- Customers and Suppliers, Quality Control
- The Effect of Quality on Business, Conducting quality checks
- Statistical Process Control & Quality Control Methods Applied in the Process
- The Principles of Sampling, & Sampling Cycle and Procedure
- Dealing with faulty products, Quality defects, Quality testing, Calibration
- How is quality measured,

### Assessment and Certification:

- Assignments to be submitted within two weeks following training. One follow up day is required to give feedback on assessed assignments. A PFSA Certificate of Competence is issued to successful candidates
- Relevant credits may be awarded to successful learners upon MERSETA due approval process.

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