ESSENTIAL WORKPLACE STATISTICS - NQF LEVEL 4

Duration: 3 days + 1 day follow up
Target: Candidates competent in NQF Level 3
Prerequisite: NQF Level 3
NQF Info: NQF Level 4
Qualification: National Certificate In Plastics Manufacturing NQF Level 4
Credits: 7
Certification: MERSETA accredited PFSA Certification.

Unit Standard:

- Apply knowledge of statistics and probability to critically interrogate and effectively communicate findings on life related problems [9015]
- Solve problems involving sequences and series in real and simulated situations [7483]

Course Objective:
To critically interrogate and use probability and statistical models in problem solving and decision making in real-world situations. To use sequences and series to solve problems in real and simulated situations and interpret their findings.

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

- Use sequences and series to model real and simulated situations and interpret their findings. Critique and use techniques for collecting, organising and representing data.
- Apply models based on sequences and series to solve problems. Investigate and interpret convergence of sequences and infinite geometric series. Use theoretical and experimental probability to develop models. Investigate and interpret convergence of sequences and infinite geometric series.
- Use models to correctly represent situations and include findings of general terms.

Contents:

- Situations or issues that can be dealt with through statistical methods are identified correctly. Methods and devices (e.g. tables of random numbers, calculators or computers) are used to select random samples; Different instruments and scales such as yes/no (dichotomous) and 5 point (Liked scales). Data sources and databases are selected in a manner that ensures the representativeness of the sample and the validity of resolutions. Calculations and the use of statistics are correct. Graphical representations and numerical summaries are consistent with the data, Evaluation of data gathering techniques are such that faults and inconsistencies are identified. Calculations involve measures of center and spread such as mean, median, mode, range; and variance. Using scatter plots and lines of best fit to represent the association between two variables.

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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