

ADVANCED DIPLOMA IN QUALITY MANAGEMENT

Qualification code: ADQU20 - NQF Level 7 (120 credits)

SAQA ID: 111623, CHE NUMBER: H/H16/E181CAN

Campus where offered:

Arcadia Campus

REMARKS

- a. *Admission requirement(s):*
Any relevant bachelor's degree or diploma from a South African university. Prospective students must currently be employed in a quality-related working environment with a minimum of two years' working experience.
- Holders of any other equivalent South African or international qualification may also be considered, see Chapter 1 of Students' Rules and Regulations.
- b. *Selection criteria:*
Admission is subject to selection. Prospective students will be evaluated based on the marks obtained in the previous qualification and/or work experience.
- Acceptance is subject to available capacity according to the Student Enrolment Plan (SEP). Applicants will be informed of their status per official letter from the Office of the Registrar, alternatively, they can check their application status on the TUT website, www.tut.ac.za.
- c. *Recognition of Prior Learning (RPL), equivalence and status:*
See Chapter 30 of Students' Rules and Regulations.
- d. *Intake for the qualification:*
January only.
- e. *Presentation:*
Block-mode classes.
- f. *Minimum duration:*
Two years.
- g. *Exclusion and readmission:*
See Chapter 2 of Students' Rules and Regulations.

CURRICULUM

FIRST YEAR

CODE	MODULE	NQF-L	CREDIT
APL107V	Applied Statistics	(7)	(24)
QMA107V	Quality Management Systems	(7)	(24)

FIRST SEMESTER

CQI117V	Continual Quality Improvement	(7)	(12)
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SECOND SEMESTER

QAT117V	Quality Auditing Techniques	(7)	(12)
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TOTAL CREDITS FOR THE FIRST YEAR: 72



SECOND YEAR

CODE	MODULE	NQF-L	CREDIT
RPQ107V	Research Project	(7)	(24)

FIRST SEMESTER

IGP117V	Integrated Project Management	(7)	(12)
RQM117V	Introduction to Research Methodology	(7)	(12)

TOTAL CREDITS FOR THE SECOND YEAR: **48**

TOTAL CREDITS FOR THE QUALIFICATION: **120**

MODULE INFORMATION (OVERVIEW OF SYLLABUS)

The syllabus content is subject to change to accommodate industry changes. Please note that a more detailed syllabus is available at the Department or in the study guide that is applicable to a particular module. At time of publication, the syllabus content was defined as follows:

A

APPLIED STATISTICS (APL107V)

PRACTICAL EXAMINATION

(Module custodian: Department of Mathematics and Statistics)

Statistical concepts, data types, sampling, Summaries data using tables and graphs, Measures of location and dispersion, Probability and probability distributions, Inferential statistics on a single mean, proportion or variance, Simple regression and correlation. Reporting on statistical findings. Inferential statistics on multiple means, proportions or variances, Chi-square tests, Basic statistical process control, and theory of six sigma. (Total tuition time: ± 96 hours)

C

CONTINUAL QUALITY IMPROVEMENT (CQI117V)

1 X 3-HOUR PAPER

(Module custodian: Department of Mathematics and Statistics)

Introduction to TQM, Business philosophy, Setting objectives, Business improvement/Waste reduction, Quality Function Deployment, Quality costs-overview, Quality Policy Deployment, Benchmarking, Business requirements, Systems management, and quality improvement. (Total tuition time: ± 48 hours)

I

INTEGRATED PROJECT MANAGEMENT (IGP117V)

1 X 3-HOUR PAPER

(Module custodian: Department of Mathematics and Statistics)

Theory of project management, ISO 21500:2012 Guidance on Project Management, Risk management in a project environment/ISO 31000, Project management principles, Project management tools, Developing a project plan, Management and Control of Projects, Project Scheduling and budgeting, Project management in a Quality environment, and project reporting. (Total tuition time: ± 48 hours)

INTRODUCTION TO RESEARCH METHODOLOGY (RQM117V)

1 X 3-HOUR PAPER

(Module custodian: Department of Mathematics and Statistics)

Literature Review, Hypotheses and research objectives Research methods, Data collection methods, Statistical methods and data analysis, Research ethics, and creative writing. (Total tuition time: ± 48 hours)



Q**QUALITY AUDITING TECHNIQUES (QAT117V)****1 X 3-HOUR PAPER****(Module custodian: Department of Mathematics and Statistics)**

Development of ISO 19011, Auditing Integrated management systems, Auditor competency and auditor qualifications, Auditing Terms and Definitions, Principles of auditing, Managing an audit programme, Types and levels of audits, Audit planning and budgeting, Establishing the audit scope and objectives, The roles of audit team members, Establishing an audit programme, The process approach, Planning, preparing and conducting document review, Planning and preparing the audit documentation, Conducting the audit and recording findings, Preparing the audit report, Attributes of the auditor, Roles of the auditor and auditee, Maintaining and improving auditor competence, and preparing and conducting follow-up audits. (Total tuition time: ± 48 hours)

QUALITY MANAGEMENT SYSTEMS (QMA107V)**1 X 3-HOUR PAPER****(Module custodian: Department of Mathematics and Statistics)**

Origins of the ISO, History and development of ISO 9000 family of Standards. ISO High level structure (HLS) for International Standards, Types of Standards and scope of application, Overview of ISO 10000 series of Standards, Scope of ISO 9000. Standard ISO 9000 Fundamentals of Quality, ISO 90000 Quality Principles, ISO 9000 Quality definitions. Scope of ISO 9001, The process approach, Conformance clauses and text analyses from ISO 9001, Overview ISO 10004 Customer satisfaction guidelines, ISO/TS 16949 Overview and additional requirements, ISO 17025 Requirements for Laboratories, ISO 14000 Environmental Management System, ISO 18000+ISO18001 OSHAS, ISO 22000 Food Safety Management System. ISO 19011 Auditing Guidelines; Overview, ISO 9004 Managing Sustained Success. (Total tuition time: ± 96 hours)

R**RESEARCH PROJECT (RPQ107V)****PROJECT ASSESSMENT****(Module custodian: Department of Mathematics and Statistics)**

Project IV, and Colloquium. (Total tuition time: ± 24 hours)

