



FUNDAMENTALS OF QUALITY MANAGEMENT



science, technology
& innovation

Department:
Science, Technology and Innovation
REPUBLIC OF SOUTH AFRICA



CSIR
Touching lives through innovation

UWU **BIO**



SOUTHERN AFRICAN
BIOMANUFACTURING TRAINING HUB



Applications are open for the Fundamentals of Quality Management Systems course, a free skills development initiative from the CSIR-hosted Southern African Biomanufacturing Training Hub (SA-BTH), in partnership with UVU BIO, scheduled to commence on Monday, 30 November 2026. The course forms part of the Strengthening Biomanufacturing Capabilities in Southern Africa (BIOcapSA) programme, which is supported by KfW Development Bank.

The programme aims to support training and skills development in the biomanufacturing sector by building a skilled and competent workforce across Africa.

FUNDAMENTALS OF QUALITY MANAGEMENT SYSTEMS (B-BTH01_UVU)

SA-BTH seeks to strengthen and grow the African biomanufacturing sector through cutting-edge training delivered in partnership with local and international stakeholders.

The course is intended for unemployed and under-employed graduates, early-career professionals and final-year students in the life sciences, physical sciences or engineering fields who wish to pursue careers in the vaccine and biomanufacturing sector. A key objective of the programme is to provide industry-relevant theoretical training through interactive online learning and skills development that supports the local manufacturing of biologics, vaccines, recombinant proteins and therapeutics. The programme aligns with several initiatives aimed at establishing vibrant biomanufacturing industries across Africa.

COURSE DESCRIPTION

The Fundamentals of Quality Management Systems course provides early-career scientists and technicians with a practical understanding of quality management systems (QMS), their importance in vaccine, biomanufacturing, pharmaceutical and chemical manufacturing environments and the application of national and international quality standards.

The course will be delivered through an online, facilitator-led format combining live virtual lectures, interactive workshops and practical case studies.



KEY AREAS OF DEVELOPMENT INCLUDE:

- Quality and QMS foundations
 - Quality concepts, quality assurance versus quality control and QMS principles
 - ISO 9001, Lean and Six Sigma
- Process management
 - Process mapping and process capability
 - Supply chains, Lean principles and digital quality
- Documentation and risk
 - QMS documentation, Standard Operating Procedures (SOPs) and regulatory requirements
 - Change management and risk management
- Managing quality
 - Quality leadership, team management and stakeholder engagement
 - Resources and the cost of quality
- Measurement and improvement
 - Quality control plans and statistical process control
 - Audits, problem-solving and continuous improvement
- Building a quality culture
 - Self-inspection and audits at a glance
 - Roles and responsibilities: why quality is everyone's responsibility



COURSE DATES AND DURATION

DATES: 30 NOVEMBER – 4 DECEMBER 2026 (ONLINE)

DURATION: ONE WEEK (FIVE DAYS)

PLATFORM: MICROSOFT TEAMS

COURSE DELIVERY

The course is delivered through a fully online, facilitator-led format and includes:

- Live virtual lectures presented by industry and subject matter experts;
- Interactive workshops, case studies and practical exercises; and
- Guided self-study supported by course notes and learning resources.

Please note that a reliable internet connection is required to participate in the online sessions. A minimum download and upload speed of 5 – 10 Mbps is recommended.

WHO SHOULD ATTEND?

Preference will be given to:

- Unemployed and under-employed graduates holding a National Diploma, BSc or BTech qualification in the life sciences, physical sciences or engineering;
- Final-year tertiary students completing qualifications in these fields; and
- New or early-career employees in the biomanufacturing, pharmaceutical or related sectors seeking to strengthen their foundational skills.



APPLICATIONS are open to South African citizens. Foreign nationals holding a valid South African study permit may also apply. We particularly welcome applications from women and other candidates who are underrepresented in the biomanufacturing and life sciences sector. Participation is limited to candidates with a minimum qualification at NQF level 6. A National Diploma, BSc or BTech (NQF levels 6 – 7) in a life science, physical science or engineering field is preferred. Final-year students may also apply. Applicants should be between 18 and 35 years of age.

For enquiries, please email
recruitment@uvubio.com

IMPORTANT DATES

- Application deadline:
15 November 2026
- Notification of selected candidates:
20 November 2026

Applications must be submitted by completing the application form available [here](#).

