

NTHRYS

OPC PVT LTD

SECTION • QCC

Quality Control, Standardisation & Compliance

Hands-on wet-lab training in the discipline that makes results defensible — nucleic-acid and reagent QC, method validation and verification, quality systems (GLP / GMP), documentation and data integrity, equipment and process control, and regulatory and accreditation readiness.

06

CATEGORIES

30

PROTOCOLS

QCC

SECTION ID

2026

EDITION

Categories & Protocols

Section **QCC** spans 6 category streams and 30 bench protocols. Every protocol carries a unique code for enrolment, tracking and certification.

QCC-NA	Nucleic Acid & Reagent QC Purity/integrity, primer, enzyme & lot qualification	05
QCC-MV	Method Validation & Verification Accuracy, linearity, LoD/LoQ & robustness	05
QCC-QS	Quality Systems (GLP / GMP) GLP, GMP, QMS & CAPA implementation	05
QCC-DC	Documentation & Data Integrity SOPs, records, ALCOA+ & electronic records	05
QCC-EQ	Equipment & Process Control IQ/OQ/PQ, calibration & process validation	05
QCC-RG	Regulatory & Accreditation Frameworks, ISO accreditation & inspection readiness	05
TOTAL	All training protocols in section QCC	30

CODE FORMAT

QCC • **MV** • **01**

QCC section

MV category

01 protocol

01

■ CATEGORY · QCC-NA

Nucleic Acid & Reagent QC

Purity/integrity, primer, enzyme & lot qualification

05

PROTOCOLS

CODE

TRAINING PROTOCOL

DESCRIPTION

QCC-NA-01

Nucleic Acid Purity &
Integrity QC

Yield, ratio & integrity checks.

QCC-NA-02

Primer / Probe QC

Identity & performance checks.

QCC-NA-03

Enzyme Activity QC

Unit-activity verification.

QCC-NA-04

Reagent Lot Qualification

Batch-release testing.

QCC-NA-05

Reference-Material Use

Traceable calibration anchors.

02

CATEGORY • QCC-MV

Method Validation & Verification

Accuracy, linearity, LoD/LoQ & robustness

05

PROTOCOLS

CODE

TRAINING PROTOCOL

DESCRIPTION

QCC-MV-01

**Accuracy & Precision
Validation**

Trueness & repeatability.

QCC-MV-02

Linearity & Range

Quantitative-span validation.

QCC-MV-03

**Limit of Detection /
Quantification**

Sensitivity limits.

QCC-MV-04

Robustness & Ruggedness

Tolerance to variation.

QCC-MV-05

**Method Verification &
Transfer**

Confirming methods at new sites.



■ CATEGORY · QCC-QS

Quality Systems (GLP / GMP)

GLP, GMP, QMS & CAPA implementation



PROTOCOLS

CODE

TRAINING PROTOCOL

DESCRIPTION

QCC-QS-01

GLP Principles & Implementation

Good-laboratory-practice basics.

QCC-QS-02

GMP for Molecular Workflows

Manufacturing-grade practice.

QCC-QS-03

Quality Management System (QMS)

System-level quality control.

QCC-QS-04

CAPA & Deviation Management

Corrective / preventive action.

QCC-QS-05

Internal Audit

Self-assessment & gap-finding.

04

■ CATEGORY · QCC-DC

Documentation & Data Integrity

SOPs, records, ALCOA+ & electronic records

05

PROTOCOLS

CODE

TRAINING PROTOCOL

DESCRIPTION

QCC-DC-01

SOP Development & Control

Standardised, controlled procedures.

QCC-DC-02

Batch Records & Logbooks

Traceable execution records.

QCC-DC-03

ALCOA+ Data Integrity

Attributable, complete data.

QCC-DC-04

Electronic Records (21 CFR Part 11)

Compliant e-records / e-signatures.

QCC-DC-05

Document Control & Versioning

Controlled-document lifecycle.



■ CATEGORY · QCC-EQ

Equipment & Process Control

IQ/OQ/PQ, calibration & process validation



PROTOCOLS

CODE

TRAINING PROTOCOL

DESCRIPTION

QCC-EQ-01

Equipment Qualification (IQ / OQ / PQ)

Install / operate / performance.

QCC-EQ-02

Calibration & Maintenance Programmes

Scheduled instrument upkeep.

QCC-EQ-03

Process Validation

Demonstrating consistent output.

QCC-EQ-04

Environmental Monitoring

Controlled-area surveillance.

QCC-EQ-05

Statistical Process Control

Trend & control-chart monitoring.



■ CATEGORY · QCC-RG

Regulatory & Accreditation

Frameworks, ISO accreditation & inspection readiness



PROTOCOLS

CODE

TRAINING PROTOCOL

DESCRIPTION

QCC-RG-01

Regulatory Frameworks Overview

Key compliance landscapes.

QCC-RG-02

ISO 15189 / 17025 Accreditation

Lab-accreditation standards.

QCC-RG-03

Proficiency Testing / EQA

External performance assessment.

QCC-RG-04

Audit & Inspection Readiness

Preparedness for assessors.

QCC-RG-05

Continuous Improvement

Ongoing quality enhancement.

Make every result defensible

Every protocol in Section QCC is delivered as hands-on training in quality discipline — from reagent QC and method validation through GLP / GMP systems, data integrity and accreditation readiness. Quality is what separates a result you hope is right from one you can stand behind.

30 protocols

6 categories

QCC section

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