

DIN EN ISO 14644-5:2025-09 (E)

Cleanrooms and associated controlled environments - Part 5: Operations (ISO 14644-5:2025)

Contents		Page
Foreword		iv
Introduction		v
1 Scope		1
2 Normative references		2
3 Terms and definitions		2
4 Abbreviations		4
5 General		4
6 Impact assessment		5
7 Operations Control		6
7.1 General.....		6
7.2 Operations control programme.....		6
7.2.1 General.....		6
7.2.2 Elements of the OCP.....		7
7.2.3 Additional considerations for the operations control programme.....		7
7.3 Materials Flow.....		7
7.3.1 General.....		7
7.3.2 Incoming materials and components.....		8
7.3.3 Finished goods.....		8
7.3.4 Waste removal.....		8
7.3.5 Transfer of maintenance tools and test equipment.....		8
7.3.6 Transfer and installation of large or stationary equipment.....		8
7.4 Personnel management programme.....		8
7.4.1 Requirements and restrictions.....		8
7.4.2 Gowning programme.....		9
7.4.3 Training.....		10
7.5 Cleaning programme.....		11
7.5.1 General.....		11
7.5.2 Requirements for the cleaning programme.....		11
7.5.3 Special cleaning.....		12
7.6 Maintenance programme.....		12
8 Monitoring programme		13
Annex A (informative) Personnel management		14
Annex B (informative) Gowning		16
Annex C (informative) Training		18
Annex D (informative) Cleaning		20
Bibliography		24