

ISO 14644-4:2001-04 (E)

Cleanrooms and associated controlled environments - Part 4: Design, construction and start-up

Contents		Page
Foreword		iv
Introduction		v
1	Scope	1
2	Normative references	1
3	Terms and definitions	2
4	Requirements	3
5	Planning and design	4
5.1	Planning procedure	4
5.2	Design	5
6	Construction and start-up	5
7	Testing and approval	6
7.1	General	6
7.2	Construction approval	6
7.3	Functional approval	6
7.4	Operational approval	6
8	Documentation	6
8.1	General	6
8.2	Record of an installation	6
8.3	Operational instructions	6
8.4	Instructions for performance monitoring	7
8.5	Maintenance instructions	7
8.6	Maintenance record	7
8.7	Record of operation and maintenance training	8
Annex A (informative) Control and segregation concepts		9
Annex B (informative) Classification examples		16
Annex C (informative) Approval of an installation		19
Annex D (informative) Layout of an installation		23
Annex E (informative) Construction and materials		27
Annex F (informative) Environmental control of cleanrooms		32
Annex G (informative) Control of air cleanliness		35
Annex H (informative) Additional specification of requirements to be agreed upon between purchaser/user and designer/supplier		37
Bibliography		50