

ISO 14224:2006-12 (E)

Petroleum, petrochemical and natural gas industries - Collection and exchange of reliability and maintenance data for equipment

Contents		Page
Foreword		iv
Introduction		v
1	Scope	1
2	Normative references	2
3	Terms and definitions	2
4	Abbreviated terms	8
5	Application	8
5.1	Equipment coverage	8
5.2	Time periods	9
5.3	Users of this International Standard	9
5.4	Limitations	9
5.5	Exchange of RM data	10
6	Benefits of RM data collection and exchange	11
7	Quality of data	13
7.1	Obtaining quality data	13
7.2	Data collection process	16
8	Equipment boundary, taxonomy and time definitions	17
8.1	Boundary description	17
8.2	Taxonomy	18
8.3	Timeline issues	20
9	Recommended data for equipment, failures and maintenance	22
9.1	Data categories	22
9.2	Data format	23
9.3	Database structure	23
9.4	Equipment data	25
9.5	Failure data	27
9.6	Maintenance data	28
Annex A (informative) Equipment-class attributes		31
Annex B (normative) Interpretation and notation of failure and maintenance parameters		112
Annex C (informative) Guide to interpretation and calculation of derived reliability and maintenance parameters		131
Annex D (informative) Typical requirements for data		149
Annex E (informative) Key performance indicators (KPIs) and benchmarking		155
Annex F (informative) Classification and definition of safety-critical failures		164
Bibliography		168