

DIN EN 17023:2019-07 (E)

Railway applications - Railway vehicle maintenance - Creation and modification of maintenance plan

Contents	Page
European foreword	4
Introduction	5
1 Scope	6
2 Normative references	6
3 Terms, definitions, symbols and abbreviations	6
3.1 Terms and definitions	6
3.2 Symbols and abbreviations	6
4 General requirements for maintenance plans	7
4.1 Introduction	7
4.2 Input data	7
4.3 Structure of a maintenance plan	9
4.4 Content of a maintenance plan	9
4.5 Periodicity table	9
4.6 Maintenance interval limit and step frequency table	10
5 Creation of a maintenance plan	10
6 Modification of maintenance plan	11
6.1 General	11
6.2 Project work flow	11
6.2.1 Project steps	11
6.2.2 System definition and Interface	12
6.2.3 Description of the modification	13
6.3 Impact assessment	13
6.3.1 General	13
6.3.2 Safety relevance assessment	13
6.3.3 Significance analysis	13
6.4 Justification methods	14
6.4.1 General	14
6.4.2 Risk assessment	14
6.5 Update the maintenance plan	16
6.6 Verification and validation	16
6.7 Documentation	16
7 Verification, validation, documentation	16
7.1 General	16
7.2 Verification	17
7.3 Validation	17
7.4 Documentation, justification file	17
8 Roles, skills and knowledge	18
8.1 General	18
8.2 Roles	18
8.2.1 Role A	18
8.2.2 Role B	19
8.2.3 Role C	19

8.3	Skills and knowledge	19
Annex A (informative) Examples of a process to assess the safety significance of a proposed Maintenance Plan modification		
		20
A.1	General	20
A.2	Example 1	20
A.2.1	Foreword	20
A.2.2	Method used to assess the significance	20
A.3	Example 2	22
A.3.1	General	22
A.3.2	Steps of the method to assess significance	23
A.4	Example 3	24
A.4.1	Methodology for using the criteria	24
A.4.2	Choosing an approach	25
A.5	Example 4	28
A.5.1	Foreword	28
A.5.2	General	28
A.5.3	Safety relevance	29
Annex B (informative) Safety relevant components, functions and maintenance activities		
		30
B.1	Introduction	30
B.2	Process for addressing safety relevant functions/components and their maintenance activities	30
B.3	Process to determine safety relevance of a maintenance plan change	31
Annex C (informative) Structured list of the content of a Maintenance Plan		
		33
C.1	General	33
C.2	Cover	33
C.3	Approval record	33
C.4	Changes control	33
C.5	Table of contents	33
C.6	Scope of application for this MP	34
C.7	Step frequency table	34
C.8	Periodicity table and supporting technical documentation	34
C.9	Relevant information	34
C.10	Definitions and abbreviations	34
C.11	List of reference documentation	35
Annex D (informative) Examples showing the representation of a Maintenance Plan		
		36
D.1	Examples of a Step frequency representation	36
D.2	Maintenance activities	38
Annex ZA (informative) Relationship between this European Standard and the essential requirements of Directive 2008/57/EC aimed to be covered		
		41
Bibliography		
		43