

SLOVENSKI STANDARD oSIST prEN ISO/IEC 80079-34:2017

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Potencialno eksplozivne atmosfere - 34. del: Uporaba sistemov kakovosti za izdelavo opreme (ISO/IEC/DIS 80079-34:2017)

Explosive atmospheres - Part 34: Application of quality systems for equipment manufacture (ISO/IEC/DIS 80079-34:2017)

Explosionsgefährdete Bereiche - Teil 34: Anwendung von Qualitätsmanagementsystemen für die Herstellung von Ex-Produkten (ISO/IEC/DIS 80079-34:2017)

Atmosphères explosives - Partie 34: Application des systèmes de qualité pour la fabrication d'équipements (ISO/IEC/DIS 80079-34:2017)

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Other standards related to

kakovostjo

13.230 Varstvo pred eksplozijo

Explosion protection

oSIST prEN ISO/IEC 80079-34:2017

en,fr,de

quality

oSIST prEN ISO/IEC 80079-34:2017

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Part 34:

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Partie 34: Application des systèmes de qualité pour la fabrication d'équipements

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188		INTERNATIONAL ELECTROTECHNICAL COMMISSION
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190 191 192 193		EXPLOSIVE ATMOSPHERES – Part 34: Application of quality management systems
194 195		for Ex product manufacture
196		FOREWORD
197 198 199 200 201 202 203 204 205 206	1)	The International Electrotechnical Commission (IEC) is a worldwide organization for standardization comprising all national electrotechnical committees (IEC National Committees). The object of IEC is to promote international co-operation on all questions concerning standardization in the electrical and electronic fields. To this end and in addition to other activities, IEC publishes International Standards, Technical Specifications, Technical Reports, Publicly Available Specifications (PAS) and Guides (hereafter referred to as "IEC Publication(s)"). Their preparation is entrusted to technical committees; any IEC National Committee interested in the subject dealt with may participate in this preparatory work. International, governmental and non-governmental organizations liaising with the IEC also participate in this preparation. IEC collaborates closely with the International Organization for Standardization (ISO) in accordance with conditions determined by agreement between the two organizations.
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231 232		ternational Standard ISO/IEC 80079-34 has been prepared by ISO/IEC subcommittee 31M: on-electrical equipment and protective systems for explosive atmospheres.
233 234		is second edition cancels and replaces the first edition, published in 2011, and constitutes full technical revision.
235	Th	is publication is published as a double logo standard.
236	Th	nis standard should be read in conjunction with ISO 9001:2015.
237		

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- 238 This publication has been drafted in accordance with the ISO/IEC Directives, Part 2.
- 239 A list of all parts of the IEC 60079 series, under the general title *Explosive atmospheres*, can
- be found on the IEC website.
- 241 The committee has decided that the contents of this publication will remain unchanged until
- 242 2021 as indicated on the IEC web site under "http://webstore.iec.ch" in the data related to the
- 243 specific publication. At this date, the publication will be
- reconfirmed,
- withdrawn,
- replaced by a revised edition, or
- **•** amended.

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250	INTRODUCTION
251 252	This document specifies requirements for a quality management system that can be used by an organization for the manufacture of Ex products and for the provision of Ex services.
253 254	It can also be used by third parties including certification bodies, to assess the organization's ability to meet conformity assessments system requirements and/or regulatory requirements.
255 256 257	The application of this standard is intended to cover both electrical and non-electrical equipment, protective systems, safety devices, Ex components and their combinations. The detailed content (e.g. annexes) is currently focused on the established standards.
258 259 260 261 262	Quality requirements are an integral part of most certification schemes and as such this Standard has been prepared with the IECEx system requirements in mind, is intended to support ATEX Directive requirements for quality management system and can be applied in other national or regional certification schemes that relate to the manufacture of Ex products and to the provision of Ex services.
263 264 265	In order to help the reader, the text of the applicable sections of ISO 9001:2015 is reproduced in a rectangular box. Where clauses are referenced within a box these refer to ISO 9001:2015.
266	

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267 268	EXPLOSIVE ATMOSPHERES -					
269 270 271 272	Part 34: Application of quality management systems for Ex product manufacture					
273	1 Scope					
274 275 276 277 278 279	This part of ISO/IEC 80079 specifies particular requirements and information for establishing and maintaining a quality management system to manufacture Ex products in accordance with the Ex certificates or to provision of Ex services. While it does not preclude the use of other quality management systems that are compatible with the objectives of ISO 9001:2015 and which provide equivalent results, the minimum requirements shall be in accordance with this standard.					
280	2 Normative references					
281 282 283	The following referenced documents are indispensable for the application of this document. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.					
284 285	IEC 60050-426, International Electrotechnical Vocabulary (IEV) – Chapter 426: Electrical apparatus for explosive atmospheres					
286	IEC 60079-0, Explosive atmospheres – Equipment – General requirements					
287	ISO 9000:2015, Quality management systems – Fundamentals and vocabulary					
288	3 Terms and definitions					
289 290	For the purposes of this document, the terms and definitions given in IEC 60050-426, IEC 60079-0 and ISO 9000:2015, as well as the following definitions, apply.					
291 292 293 294 295	3.1 Ex Component equipment intended to be part of Ex Equipment, marked with the symbol "U", which is not intended to be used alone, and requires additional consideration when incorporated into Ex equipment					
296						
297 298 299	3.2 Ex Equipment equipment with explosion protection					
300 301 302 303	Note 1 to entry: This is equivalent to the term "certificate" defined in IEC 60079-0. Note 2 to entry: Such equipment often includes Ex Components, but additional evaluation is always required as part of their incorporation into equipment.					
304 305 306 307	3.3 certificate document that conveys the assurance of the conformity of an Ex product with specified requirements for explosive atmospheres					
308 309 310	Note 1 to entry: This is equivalent to the term "certificate" defined in IEC 60079-0. Note 2 to entry: This term includes the Ex Equipment Certificate and the Ex Component Certificate as defined in IEC 60079-0					

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- 311 3.4
- 312 manufacturer
- organization, situated at a stated location or locations, that carries out or controls such stages 313
- in the manufacture, assessment, handling and storage of a product that enables it to accept 314
- 315 responsibility for continued compliance of the product with the relevant requirements and
- 316 undertakes all obligations in that connection
- 317 Note 1 to entry: The term "manufacturer" is used instead of "organization" as used in ISO 9001:2015. For the
- 318 purposes of this standard they are interchangeable.
- 320 3.5

319

- 321 contract
- 322 requirements forming an agreement between different parties and transmitted by any
- 323 appropriate means
- 324
- 325 customer complaint
- 326 reported written or verbal allegation made by a customer which concerns the identity, quality,
- 327 durability, safety, security, conformity or performance of any equipment or protective system
- 328 or component as defined in the Ex certificate
- 329 3.7
- 330 **Ex Product**
- 331 Ex Equipment, protective systems, safety devices, Ex Components and their combinations, as
- 332 well as software and service as defined in 3.7.6 and 3.7.7 of ISO 9000:2015
- 333 3.8
- 334 protective systems
- 335 devices other than components of equipment which are intended to halt incipient explosions
- 336 immediately and/or to limit the effective range of an explosion
- 337 Note to entry: Protective systems may be integrated into equipment or separately released for use as autonomous
- 338 systems.
- 339 3.9
- 340 safety device
- 341 device intended for use inside or outside explosive atmospheres but required for or
- 342 contributing to the safe functioning of equipment and protective systems with respect to the
- 343 risks of explosion
- 344 3.10
- 345 schedule drawing
- 346 drawing or document listed in the certificate and/or test report
- 347 3.11
- 348 related drawing
- 349 drawing or document not listed in the certificate but linked to the schedule drawing, and used
- 350 for example, for detailed manufacture of component parts
- 351 3.12
- technical documentation 352
- 353 documentation that enables the conformity of the product with the requirements of the
- 354 Standard(s) to be assessed.
- 355 Note 1 to entry: This can include schedule drawings when a Certification Body is involved.
- 356 Note 2 to entry: It covers the design, manufacture and operation of the product and can contain:
- a general description;
- 357 358 design and manufacturing drawings and layouts of components, sub-assemblies, circuits, etc.;
- 359 descriptions and explanations necessary for the understanding of drawings and layouts and the operation of 360
- 361 a list of the standards referred to in the certificate, applied in full or in part, and descriptions of the solutions 362 adopted to meet the requirements of the Standards;
- 363 results of design calculations made, examinations carried out, risk assessment etc.;
- 364 test reports.

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- 365 3.13
- 366 manufacturer's documentation
- documents required by a manufacturer but not subject to assessment by body responsible for 367
- 368 verification when making an application for a test report or an certificate
- 369 NOTE 1 For example, manufacturing instructions, related drawings, data sheets and sales literature.
- 370 NOTE 2 The manufacturer's documentation can be either in paper form or electronic form.
- 371 3.14
- 372 Type of Protection
- 373 specific measures applied to equipment to avoid ignition of a surrounding explosive
- 374 atmosphere
- 375 376 Note 1 to entry: This definition is identical to that of IEC 60079-0, except that the term "electrical" has been
- replaced by "Ex' to allow a broader application of the definition.
- 377 3.15
- 378 body responsible for verification
- 379 body which conducts documentation review and periodical audit as appropriate
- 380 Note 1 to entry: The body can be a manufacturer, purchaser, third party or a Certification body.

381 Context of the organization

382 4.1 Understanding the organization and its context

- 383 The organization shall determine external and internal issues that are relevant to its purpose 384 and its strategic direction and that affect its ability to achieve the intended result(s) of its
- 385 quality management system.
- 386 The organization shall monitor and review information about these external and internal
- 387 issues.

397

407

- 388 NOTE 1 Issues can include positive and negative factors or conditions for consideration.
- 389 NOTE 2 Understanding the external context can be facilitated by considering issues arising from legal, 390 technological, competitive, market, cultural, social and economic environments, whether international, national,
- 391 regional or local.
- 392 NOTE 3 Understanding the internal context can be facilitated by considering issues related to values, culture,
- 393 knowledge and performance of the organization.
- 394 4.1 of ISO 9001:2015 applies with the following addition:
- 395 In regards to this Standard, the context of the organization is to ensure that any Ex Product is
- 396 in accordance with its certificate and technical documentation.

Understanding the needs and expectations of interested parties

- 398 Due to their effect or potential effect on the organization's ability to consistently provide products and services that meet customer and applicable statutory and regulatory 399 400 requirements, the organization shall determine:
- 401 a) the interested parties that are relevant to the quality management system;
- 402 b) the requirements of these interested parties that are relevant to the quality management 403 system.
- 404 The organization shall monitor and review information about these interested parties and their 405 relevant requirements.
- 406 4.2 of ISO 9001:2015 applies.

Determining the scope of the quality management system 4.3

- 408 The organization shall determine the boundaries and applicability of the quality management system to establish its scope. 409
- 410 When determining this scope, the organization shall consider:
- 411 a) the external and internal issues referred to in 4.1;
- 412 b) the requirements of relevant interested parties referred to in 4.2;

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- 413 c) the products and services of the organization.
- 414 The organization shall apply all the requirements of this International Standard if they are
- 415 applicable within the determined scope of its quality management system.
- 416 The scope of the organization's quality management system shall be available and be
- 417 | maintained as documented information. The scope shall state the types of products and
- 418 services covered, and provide justification for any requirement of this International Standard
- 419 that the organization determines is not applicable to the scope of its quality management
- 420 system.

425

- 421 | Conformity to this International Standard may only be claimed if the requirements determined
- 422 as not being applicable do not affect the organization's ability or responsibility to ensure the
- 423 conformity of its products and services and the enhancement of customer satisfaction.
- 424 4.3 of ISO 9001:2015 applies.

4.4 Quality management system and its processes

- 426 4.4.1 The organization shall establish, implement, maintain and continually improve a quality
- 427 management system, including the processes needed and their interactions, in accordance
- with the requirements of this International Standard.
- The organization shall determine the processes needed for the quality management system
- 430 and their application throughout the organization, and shall:
- 431 a) determine the inputs required and the outputs expected from these processes;
- b) determine the sequence and interaction of these processes;
- 433 c) determine and apply the criteria and methods (including monitoring, measurements and
- related performance indicators) needed to ensure the effective operation and control of these
- 435 processes;
- 436 d) determine the resources needed for these processes and ensure their availability;
- e) assign the responsibilities and authorities for these processes;
- 438 f) address the risks and opportunities as determined in accordance with the requirements of
- 439 6.1;
- 440 g) evaluate these processes and implement any changes needed to ensure that these
- 441 processes achieve their intended results;
- h) improve the processes and the quality management system.
- 4.4.2 To the extent necessary, the organization shall:
- a) maintain documented information to support the operation of its processes;
- 445 | b) retain documented information to have confidence that the processes are being carried out
- 446 as planned.
- 4.4 of ISO 9001:2015 applies with the following addition:
- 448 The quality management system shall ensure that the Ex Product conforms to the type
- 449 described in the certificate and the technical documentation.
- 450 **5 Leadership**
- 451 5.1 Leadership and commitment
- 452 **5.1.1 General**
- Top management shall demonstrate leadership and commitment with respect to the quality management system by:
- 455 a) taking accountability for the effectiveness of the quality management system;
- b) ensuring that the quality policy and quality objectives are established for the quality management system and are compatible with the context and strategic direction of the
- 458 organization;