New

Articles AI ACT

Standard | AI Act | Article | Mapping | Terminology

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ID **22**

Article 001

Specification Subject matter

Relationship with **Standard** **24029-1, 22989, 24030, 38507, 24028** *(Artificial intelligence);* **25010, 14971, 5469, 24368, 24028** *(Safety)*

Link https://eur-lex.europa.eu/legal-content/EN/TXT/?uri=CELEX:32024R1689

Summary The purpose of this Regulation is to improve the funtioning of the internal market and promote the uptake of human-centric and trustworthy AI, while ensuring a high level of protection of health, safety, funsamental rights, including democracy, the rule of law and environmental protection, support innovation

Terms	*Variant*	*Complementary*	*Standard*	
216 Human-centric				22
96 Trustworthy				22
194 Artificial intelligence			**24029-1, 22989, 24030, 38507, 24028**	22
212 Health				22
214 Safety			**25010, 14971, 5469, 24368, 24028**	22
209 Fundamental righs				22
217 Democracy				22
218 Environmental protection				22
220 Harmful effects				22
219 Innovation				22

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Observations

ID **23**

Article 002

Specification Scope

Relationship with **Standard** **25059, 5338, 24030, 24028, 6254, 17847, 22443** *(AI systems);* **12182** *(Service)*

Link https://eur-lex.europa.eu/legal-content/EN/TXT/?uri=CELEX:32024R1689

Summary The Regulation applies to:
- providers
- deployers
- located in the Union
- located in a third country with output used in the Union
- Importers
- product manufacturers
- location
- products covered by Union harmonization legislation

Terms	*Variant*	*Complementary*	*Standard*	
222 Providers				23
223 Deployers				23
225 Located in the Union				23
224 Located in a third country with output used				23
226 Importers				23
227 Product manufacturers				23
228 Location				23
229 Products covered by Union harmonization				23
4 AI systems			**25059, 5338, 24030, 24028, 6254, 17847, 22443**	23
255 Service			**12182**	23

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Observations

New

Articles AI ACT

Standard | AI Act | Article | Mapping | Terminology

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ID **21**

Article 003

Specification Definitions

Relationship with **Standard** **25059, 5338, 24030, 24028, 6254, 17847, 22443** *(AI systems);* **27000** *(Conformity);* **24029-1, 22989, 24030, 38507, 24028** *(Artificial intelligence);* **9868** *(Biometric data)*

Link https://eur-lex.europa.eu/legal-content/EN/TXT/?uri=CELEX:32024R1689

Summary The article start with a definition of Artificial Intellligence system continuing with mentioning other terms such as: risk, AI model, deployer, authorized representative, importer, distributor, operator, placing on the market, making avaailable on the market, putting into service, intended purpose, reasonable foreseeable misuse, safety component, and so on.

	Terms	*Variant*	*Complementary*	*Standard*	
194	Artificial intelligence			**24029-1, 22989, 24030, 38507, 24028**	21
4	AI systems			**25059, 5338, 24030, 24028, 6254, 17847, 22443**	21
223	Deployers				21
226	Importers				21
144	Conformity			**27000**	21
290	Biometric data			**9868**	21

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Observations

ID **24**

Article 004

Specification AI literacy

Relationship with **Standard** **25059, 5338, 24030, 24028, 6254, 17847, 22443** *(AI systems);* **25019** *(Experience);* **22989** *(Knowledge);* **24028** *(Training)*

Link https://eur-lex.europa.eu/legal-content/EN/TXT/?uri=CELEX:32024R1689

Summary Providers and deployers ensure the AI literacy to their staff

	Terms	*Variant*	*Complementary*	*Standard*	
222	Providers				24
223	Deployers				24
234	Literacy				24
231	Knowledge			**22989**	24
134	Experience			**25019**	24
232	Education				24
233	Training			**24028**	24
4	AI systems			**25059, 5338, 24030, 24028, 6254, 17847, 22443**	24
230	AI literacy				24

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Observations

New

Articles AI ACT

Standard | AI Act | Article | Mapping | Terminology

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ID **25**

Article 005

Specification Prohibited AI Practices

Relationship with **Standard** **25024, 5259-2, 25059, 25019, 25012** *(Accessibility);* **14971** *(Market for medical or safety reasons);* **9868** *(Biometric data)*

Link https://eur-lex.europa.eu/legal-content/EN/TXT/?uri=CELEX:32024R1689

Summary Tha following AI practices shall be prohibited:

- manipulative or deceptive tecniques

- the placing on the market the use of an AI system that exploit any vulnerabilities of a person or a specific group of persons due to their age, disability or a specific social or economic situation

- evaluation or classification of natural persons or groups of persons

...

	Terms	*Variant*	*Complementary*	*Standard*	
239	Market for medical or safety reasons			**14971**	25
1	Accessibility			**25024, 5259-2, 25059, 25019, 25012**	25
290	Biometric data			**9868**	25
288	Disability				25

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Observations

ID **29**

Article 006

Specification Classification rules for high-risk AI systems

Relationship with **Standard** **25059, 5338, 24030, 24028, 6254, 17847, 22443** *(AI systems);* **42001, 5259-3, 23894, 27000, 24970, 31000, 25058** *(Risk management);* **25010, 14971, 5469, 24368, 24028** *(Safety);* **23894** *(Products);* **4213** *(Classification);* **12182** *(Service);* **38507** *(Decision-making)*

Link https://eur-lex.europa.eu/legal-content/EN/TXT/?uri=CELEX:32024R1689

Summary The document distinguishes for AI systems the level of risks

	Terms	*Variant*	*Complementary*	*Standard*	
253	Classification	categorization		**4213**	29
4	AI systems			**25059, 5338, 24030, 24028, 6254, 17847, 22443**	29
255	Service			**12182**	29
236	Products			**23894**	29
212	Health				29
214	Safety			**25010, 14971, 5469, 24368, 24028**	29
209	Fundamental righs				29
256	Decision-making			**38507**	29
101	Risk management			**42001, 5259-3, 23894, 27000, 24970, 31000, 25058**	29

OPTIONAL INFORMATION

Name and Surname		Affiliation and Qualification		Linkedin ... other	

Observations

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ID **30**

Article 007

Specification Amendment. to Annex III

Relationship with **Standard** **25059, 5338, 24030, 24028, 6254, 17847, 22443** *(AI systems);* **42001, 5259-3, 23894, 27000, 24970, 31000, 25058** *(Risk management);* **25010, 14971, 5469, 24368, 24028** *(Safety);* **24030** *(Use-cases);* **24028, 8200, 29119-11** *(Autonomy)*

Link https://eur-lex.europa.eu/legal-content/EN/TXT/?uri=CELEX:32024R1689

Summary Amendmenys to Annex III by adding or modiying use-cases of high-risks, regarding AI systems

	Terms	*Variant*	*Complementary*	*Standard*	
258	Use-cases			**24030**	30
4	AI systems			**25059, 5338, 24030, 24028, 6254, 17847, 22443**	30
212	Health				30
214	Safety			**25010, 14971, 5469, 24368, 24028**	30
209	Fundamental righs				30
101	Risk management			**42001, 5259-3, 23894, 27000, 24970, 31000, 25058**	30
266	Autonomy			**24028, 8200, 29119-11**	30

OPTIONAL INFORMATION

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Observations

ID **20**

Article 008

Specification Compliance with the requirements

Relationship with **Standard** **27000** *(Compliance with the requirements)*

Link https://eur-lex.europa.eu/legal-content/EN/TXT/?uri=CELEX:32024R1689

Summary High-risk AI systems shall comply with the requirements laid down in the Section 2. The risk managemnt system referred to in Article 9 shall be considered when ensuring compliance with those requirements.

	Terms	*Variant*	*Complementary*	*Standard*	
147	Compliance with the requirements			**27000**	20

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Observations

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ID **19**

Article 009

Specification Risk management system

Relationship with **Standard** **24027, 5338, 17847, 22443, 5339, 62304** *(Lifecycle)*; **42001, 5259-3, 23894, 27000, 24970, 31000, 25058** *(Risk management)*; **27000** *(Documented information)*; **5259-1, 27000** *(Measurement)*; **27000, 14971** *(Residual risk)*; **27000, 14971** *(Risk evaluation)*

Link https://eur-lex.europa.eu/legal-content/EN/TXT/?uri=CELEX:32024R1689

Summary A risk management system shall be established, implemented, documented and maintained in relation to high-risk AI system.

	Terms	*Variant*	*Complementary*	*Standard*	
101	Risk management			42001, 5259-3, 23894, 27000, 24970, 31000, 25058	19
49	Lifecycle			24027, 5338, 17847, 22443, 5339, 62304	19
145	Documented information			27000	19
158	Risk evaluation			27000, 14971	19
154	Residual risk			27000, 14971	19
153	Measurement			5259-1, 27000	19

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Observations

ID **10**

Article 010

Specification Data and data governance

Relationship with **Standard** **25059** *(Annotation)*; **5259-2** *(Bias detection and correction)*; **25024, 5259-2, 25012, 24028** *(Consistency)*; **5259-1, 31010** *(Data collection processes)*; **24027, 23894, 82079-1, 26514** *(Design)*; **5259-2** *(Origin of data)*; **25024, 5259-2** *(Quality criteria)*; **25024, 5259-2, 24029-1** *(Training, validation, testing datasets)*; **42001** *(Cleaning)*; **8183, 5259-5, 38500, 38507** *(Governance)*; **5259-1, 25019, 25012, 8000-1** *(Data quality)*

Link https://eur-lex.europa.eu/legal-content/EN/TXT/?uri=CELEX:32024R1689

Summary High-risk AI systems shall be developed on the basis of training, validation and testing data sets that meet the quality criteris referred to in paragraphs 2 to 5.

	Terms	*Variant*	*Complementary*	*Standard*	
74	Training, validation, testing datasets			25024, 5259-2, 24029-1	10
57	Quality criteria			25024, 5259-2	10
52	Origin of data	provenance		5259-2	10
13	Bias detection and correction			5259-2	10
53	Personal data are not to be transmitted,				10
111	Governance			8183, 5259-5, 38500, 38507	10
34	Design			24027, 23894, 82079-1, 26514	10
46	HR AI Systems				10
29	Data collection processes			5259-1, 31010	10
5	Annotation			25059	10
25	Consistency			25024, 5259-2, 25012, 24028	10
80	Cleaning			42001	10
102	Labelling				10
116	Data quality			5259-1, 25019, 25012, 8000-1	10

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Observations

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ID **28**

Article 011

Specification Technical documentation

Relationship with **Standard** **27000** *(Documented information)*; **82079-1** *(Technical documentation)*

Link https://eur-lex.europa.eu/legal-content/EN/TXT/?uri=CELEX:32024R1689

Summary Technical documentation of a high-risk shall be drown before that the system is on the market or put into service and shall be kept up-to date

	Terms	*Variant*	*Complementary*	*Standard*	
145	Documented information			**27000**	28
246	Technical documentation			**82079-1**	28

OPTIONAL INFORMATION

Name and Surname | Affiliation and Qualification | Linkedin ... other

Observations

ID **27**

Article 012

Specification Record keeping

Relationship with **Standard** **25024, 5259-2, 24970, 25012** *(Traceability)*; **42001, 5259-3, 23894, 27000, 24970, 31000, 25058** *(Risk management)*; **24970** *(Logging)*

Link https://eur-lex.europa.eu/legal-content/EN/TXT/?uri=CELEX:32024R1689

Summary Logging capabilities in order to ensure a level of traceability and functioning of High-risk

	Terms	*Variant*	*Complementary*	*Standard*	
245	Logging			**24970**	27
73	Traceability			**25024, 5259-2, 24970, 25012**	27
101	Risk management			**42001, 5259-3, 23894, 27000, 24970, 31000, 25058**	27

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Observations

New

Articles AI ACT

Standard | AI Act | Article | Mapping | Terminology

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ID **15**

Article 015

Specification Accuracy, robustness and cybersecurity

Relationship with **Standard** **25024, 5259-2, 25012, 29119-11** *(Accuracy);* **5259-2** *(Bias detection and correction);* **24029-1, 24029-2** *(Robusteness);* **5259-2, 22989** *(Data quality reporting);* **5259-1, 31010** *(Data collection processes);* **24027, 5338, 17847, 22443, 5339, 62304** *(Lifecycle);* **25024, 42001, 27000** *(Measurement and method);* **5259-2** *(Origin of data);* **25059, 25010, 24028, 9868** *(Security);* **22989** *(Cybersecurity)*

Link https://eur-lex.europa.eu/legal-content/EN/TXT/?uri=CELEX:32024R1689

Summary High-risk AI systems shall be designed and developed in such a way that they achieve an appropriate level of accuracy robustness and cybersecurity...yhrought their lifecycle.

	Terms	*Variant*	*Complementary*	*Standard*	
47	Interaction with natural person or other				15
2	Accuracy			25024, 5259-2, 25012, 29119-11	15
65	Robustness achieved with redundancy,				15
29	Data collection processes			5259-1, 31010	15
50	Measurement and method			25024, 42001, 27000	15
46	HR AI Systems				15
13	Bias detection and correction			5259-2	15
49	Lifecycle			24027, 5338, 17847, 22443, 5339, 62304	15
48	Level declaration & instruction of use				15
66	Security			25059, 25010, 24028, 9868	15
41	Examination of biases, health and safety of				15
52	Origin of data			5259-2	15
67	Security and privacy, pseudonymisation				15
28	Data quality reporting			5259-2, 22989	15
50	Measurement and method			25024, 42001, 27000	15
18	Robusteness			24029-1, 24029-2	15
215	Cybersecurity			22989	15

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Observations

ID **17**

Article 017

Specification Quality management system

Relationship with **Standard** **25024, 5259-2, 25059, 25019, 25012** *(Accessibility);* **25059** *(AI models);* **5259-2** *(Bias detection and correction);* **25024, 5259-2, 25019, 25012** *(Compliance);* **5259-2** *(Data holder);* **5259-2** *(Identifiability);* **8183, 5259-1, 5259-4** *(Data life cycle);* **24027, 23894, 82079-1, 26514** *(Design);* **24027, 5338, 17847, 22443, 5339, 62304** *(Lifecycle);* **42001** *(Cleaning);* **42001, 23894** *(Leadership);* **42001** *(Planning);* **25019** *(Post-market);* **42001, 5259-3, 23894, 27000, 24970, 31000, 25058** *(Risk management)*

Link https://eur-lex.europa.eu/legal-content/EN/TXT/?uri=CELEX:32024R1689

Summary Providers of high-risk AI systems shall put a quality management system in place that ensures compliance with the AI Act regulation.

	Terms	*Variant*	*Complementary*	*Standard*	
22	Data holder			5259-2	17
86	Leadership			42001, 23894	17
49	Lifecycle			24027, 5338, 17847, 22443, 5339, 62304	17
58	Re-use of the personal data	Quality control			17
71	The personal data in the special categories				17
84	Assessment datasets				17
30	Data life cycle			8183, 5259-1, 5259-4	17
3	AI models			25059	17
80	Cleaning			42001	17
87	Planning			42001	17
21	Compliance			25024, 5259-2, 25019, 25012	17
24	Identifiability			5259-2	17
34	Design			24027, 23894, 82079-1, 26514	17
100	Post-market	Quaity in use		25019	17
1	Accessibility			25024, 5259-2, 25059, 25019, 25012	17
101	Risk management			42001, 5259-3, 23894, 27000, 24970, 31000, 25058	17
13	Bias detection and correction			5259-2	17

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Observations

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ID **32**

Article 043

Specification

Conformity assessment

Relationship with **Standard**

25059, 5338, 24030, 24028, 6254, 17847, 22443 *(AI systems);* **27000** *(Conformity);* **5259-3, 14971, 38500, 9868** *(Management);* **25010, 14971, 5469, 24368, 24028** *(Safety);* **82079-1** *(Technical documentation);* **29119-11** *(Assessment)*

Link

https://eur-lex.europa.eu/legal-content/EN/TXT/?uri=CELEX:32024R1689

Summary

Conformity assessment procedures aree based on:
- the internal control referred to in Annex VI
- the assessment of the quality management system and the technical documentation

	Terms	*Variant*	*Complementary*	*Standard*	
170	Management			**5259-3, 14971, 38500, 9868**	32
289	Quality management				32
246	Technical documentation			**82079-1**	32
144	Conformity			**27000**	32
286	Assessment			**29119-11**	32
212	Health				32
214	Safety			**25010, 14971, 5469, 24368, 24028**	32
4	AI systems			**25059, 5338, 24030, 24028, 6254, 17847, 22443**	32

OPTIONAL INFORMATION

Name and Surname | Affiliation and Qualification | Linkedin ... other

Observations

ID **31**

Article 060

Specification

Testing of high-risk AI system in real world conditions outside AI regulatory sandbox

Relationship with **Standard**

24029-1, 24028, 29119-11 *(Testing);* **24028** *(Personal data)*

Link

https://eur-lex.europa.eu/legal-content/EN/TXT/?uri=CELEX:32024R1689

Summary

Testing of hugh-risk AI systems in real world conditions outside AI regulatory sandboxes my be conducted by providers or prospective providers of hight-risks (see Annex III)
The testing of hight-risk AI systems shall be without prejudice to any ethical review

	Terms	*Variant*	*Complementary*	*Standard*	
196	Testing			**24029-1, 24028, 29119-11**	31
287	Ethical review				31
288	Disability				31
271	Personal data			**24028**	31

OPTIONAL INFORMATION

Name and Surname | Affiliation and Qualification | Linkedin ... other

Observations

New

Articles AI ACT

Standard | AI Act | Article | Mapping | Terminology

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ID **26**

Article 073

Specification Reporting of serious incidents

Relationship with **Standard** 25010, 14971, 5469, 24368, 24028 *(Safety)*

Link https://eur-lex.europa.eu/legal-content/EN/TXT/?uri=CELEX:32024R1689

Summary Providers of hight-risk AI systems placed on the Union market shall report any yserious incident to the market surveillance authorities of the Member States where that incident occurred

Terms	*Variant*	*Complementary*	*Standard*	
241 Incident				26
214 Safety			25010, 14971, 5469, 24368, 24028	26

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Observations