AI ACT

New

| Standard | AI Act | Mapping | Terminology |

Article

UNINFO UNI
Technical Committee 533 AI

ai open mind — Hosting and developing

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Article 001

ID 22

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:

Article 002

ID 23

Specification: Scope

Relationship with Standard:

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

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Observations:

AI ACT

New

Standard | AI Act | Mapping | Terminology

Article

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ID 21

Article 003

Specification: Definitions

Relationship with Standard: 25059, 5338, 24030, 24028, 6254, 17847 *(AI systems)*; 24029-1, 22989, 24030, 38507, 24028 *(Artificial intelligence)*

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	21

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Observations:

ID 24

Article 004

Specification: AI literacy

Relationship with Standard: 25059, 5338, 24030, 24028, 6254, 17847 *(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	24
230	AI literacy				24

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Observations:

AI ACT

New

Standard | AI Act | Mapping | Terminology

Article

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Article 005

ID 25

Specification
Prohibited AI Practices

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

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

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Observations

Article 006

ID 29

Specification
Classification rules for high-risk AI systems

Relationship with Standard
25059, 5338, 24030, 24028, 6254, 17847 *(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	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

| New | AI ACT | Standard | AI Act | Mapping | Terminology | UNINFO UNI Technical Committee 533 AI |
Article

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ID 30

Article 007

Specification
Amendment. to Annex III

Relationship with Standard
25059, 5338, 24030, 24028, 6254, 17847 *(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	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

Name and Surname		Affiliation and Qualification		Linkedin ... other	

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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Article 009

ID 19

Specification
Risk management system

Relationship with Standard
24027, 5338, 17847 *(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	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					

Article 010

ID 10

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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| | | | | Article | | | | Technical Committee 533 AI | |

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ID 28 **Article 011**

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

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

OPTIONAL INFORMATION

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

Observations

ID 27 **Article 012**

	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

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

OPTIONAL INFORMATION

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Observations

New	AI ACT	Standard	AI Act	Mapping	Terminology	UNINFO UNI Technical Committee 533 AI
			Article			ai open mind Hosting and developing

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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 *(Robustness)*; 5259-2, 22989 *(Data quality reporting)*; 5259-1, 31010 *(Data collection processes)*; 24027, 5338, 17847 *(Lifecycle)*; 25024, 42001, 27000 *(Measurement and method)*; 5259-2 *(Origin of data)*; 25059, 25010, 24028 *(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	15
48	Level declaration & instruction of use				15
66	Security			25059, 25010, 24028	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	Robustness			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 *(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	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

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

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