

Al Literacy - Questions & Answers

Definitions of article 4 and the AI Act

What does article 4 of the AI Act provide?

Providers and deployers of AI systems should take measures to ensure a sufficient level of AI literacy of their staff and other persons dealing with the operation and use of AI systems on their behalf. They should do so by taking into account their technical knowledge, experience, education and training of the staff and other persons as well as the context the AI systems are to be used in and the persons on whom the AI systems are to be used.

What is AI literacy for article 4 of the AI Act?

The concept of Al literacy mentioned in article 4 of the Al Act relies on the definition of the term given in article 3(56) of the Al Act, according to which: 'Al literacy' means skills, knowledge and understanding that allow providers, deployers and affected persons, taking into account their respective rights and obligations in the context of this Regulation, to make an informed deployment of Al systems, as well as to gain awareness about the opportunities and risks of Al and possible harm it can cause.

Which target group is in scope of article 4 of the AI Act? Who are 'other persons'?

Article 4 of the AI Act is a key provision to ensure that all providers and deployers of AI systems equip their staff with the right skills, knowledge and understanding of the system(s) provided or deployed. This concerns anyone in the organisation directly dealing with an AI system and reinforces the provisions of transparency (Article 13 of the AI Act) and human oversight (Article 14 of the AI Act) included in the Regulation. At the same time, Article 4 indirectly contributes to the protection of affected persons, because it ensures an effective application of the AI Act rules.

"Persons dealing with the operation and use of AI systems on behalf of providers/deployers" means that these are not employees, but persons broadly under the organisational remit. It could be, for example, a contractor, a service provider, a client.

Is there effectively an actual obligation to measure the level of the knowledge of employees?

Article 4 of the Al Act does not entail an obligation to measure the knowledge of Al of employees. Yet, it affirms that Al providers and deployers should ensure a sufficient level of Al literacy taking into account the technical knowledge, experience, education and training of employees.

Are there formal categorisations of the different types of AI systems in the Act such as GenAI, Conversational AI, AI assistants? Is there a list with concrete examples?

Yes, the Al Act distinguishes between Al models (GPAI models), Al systems, including GPAI systems, prohibited, high-risk systems. For more details, please also see the <u>guidelines on Al system definition</u> (https://digital-strategy.ec.europa.eu/en/library/commission-publishes-guidelines-ai-system-definition-facilitate-first-ai-acts-rules-application), published by the Commission on 6 February to assist providers and other relevant persons in determining whether a software system constitutes an Al system and facilitate the effective application of the rules. These guidelines, which are non-binding and are designed to evolve over time, explain the practical application of the legal concept, as

anchored in the Al Act. The guidelines on Al systems definition were published in addition to the <u>Guidelines on prohibited</u> <u>artificial intelligence (Al) practices</u>

(https://digital-strategy.ec.europa.eu/en/library/commission-publishes-guidelines-prohibited-artificial-intelligence-ai-practices <u>-defined-ai-act</u>), as defined by the Al Act.

Where do we find further documents and videos on Article 4 of the AI Act?

For the time being information on Commission's activities in relation to article 4 of the Al Act can be found on the Al Pact (https://digital-strategy.ec.europa.eu/en/policies/ai-pact) webpage, including the recording of the webinar that took place on 20 February (https://digital-strategy.ec.europa.eu/en/events/third-ai-pact-webinar-ai-literacy) and the living repository on Al literacy. (https://digital-strategy.ec.europa.eu/en/library/living-repository-foster-learning-and-exchange-ai-literacy) A dedicated webpage on Al literacy and skills is under preparation.

Compliance with article 4

What should be the minimum content to consider for an AI literacy programme complying with article 4 of the AI Act?

The AI Office will not impose strict requirements regarding Article 4 of the AI Act and its "sufficient level of AI literacy". On the contrary, it considers necessary a certain degree of flexibility, considering the broad topic of AI literacy and the fast-evolving technology that AI is. Yet, as a minimum, to comply with Article 4 of the AI Act, providers and deployers of AI systems should:

- a) Ensure a general understanding of Al within their organisation: What is Al? How does it work? What Al is used in our organisation? What are its opportunities and dangers?
- b) Consider the role of their organisation (provider or deployer of Al systems): Is my organisation developing Al systems or just using Al systems developed by another organisation?
- c) Consider the risk of the AI systems provided or deployed: What do employees need to know when dealing with such AI system? What are the risks they need to be aware of and do they need to be aware of mitigation?
- d) Concretely build their Al literacy actions on the preceding analysis, considering
 - differences in technical knowledge, experience, education and training of the staff and other persons How much does the employees/person know about AI and the organisation's systems they use? What else should they know?
 - as well as the context the AI systems are to be used in and the persons on whom the AI systems are to be used In which sector and for which purpose/service is the AI system being used?

Considerations a, b, c, and d include legal and ethical aspects. Therefore, connections to the EU AI regulation (i.e., understanding of the AI Act) and to principles of ethics and governance are encouraged.

Do we have a risk-based approach on following the AI Literacy requirements of article 4 of the AI Act?

As reported in the answer to the previous question, to comply with article 4 of the AI Act, organisations should consider their role (being providers or deployers of AI systems) as well as the risks associated to the AI systems they provide and/or deploy. According to this, organisations should adapt their AI literacy approach. For example, if the AI systems of the organisation are high-risk, according to Chapter III of the AI Act, additional measures might be relevant to ensure employees are aware of how to deal with the given AI systems and avoid and/or mitigate their risks.

Is an AI training mandatory for article 4 of the AI Act or are other AI literacy initiatives also allowed?

This depends on the organisation's answers to the considerations in question 1. Yet, in many cases, simply relying on the Al systems' instructions for use or asking the staff to read them might be ineffective and insufficient. Article 4 of the Al Act is

intended to provide trainings and guidance as most appropriate on the basis of each target group's level and type of knowledge, as well as given the context and purpose of the AI systems in used in the organisation.

This is also in alignment with other provisions of the AI Act. For example, Article 26 introduces an obligation for deployers of high-risk systems to ensure that the staff dealing with the AI systems in practice is sufficiently trained to handle the system and ensure human oversight. Relying on the instructions of use is therefore not sufficient, further measures are necessary.

What should be the format of a mandatory AI training in companies?

There is no one size fit all when it comes to AI literacy and the AI Office does not intend to impose strict requirements or mandatory trainings. The requirements for a training depend on the concrete context. While replicating the practices collected does not automatically grant presumption of compliance with Article 4, the initiatives in the literacy (https://digital-strategy.ec.europa.eu/en/library/living-repository-foster-learning-and-exchange-ai-literacy) could provide some inspiration.

When it comes to compliance with article 4 of the AI Act, are there requirements for specific industries, including financial services and healthcare?

No, the AI Office does not impose requirements for specific sectors. Yet, as reported in the answer to question 1, the context – including the sector and the purpose – in which AI systems are provided/deployed should be relevant when developing and AI literacy initiative. Moreover, the level of risk of AI systems should be considered.

Al literacy extends to other persons acting on deployer's behalf: should any service provider using Al have a contractual obligation to demonstrate Al literacy?

This depends on the concrete type of AI system and risk (e.g. for high risk). In general, people working for a service provider or contractor need to have the appropriate AI skills to fulfil the task in question (same as the employees).

Does a company, whose employees are using ChatGPT for, e.g., writing advertisement text or translating text, need to comply with the AI literacy requirement of Article 4 of the AI Act?

Yes, they should be informed about the specific risks, for example hallucination.

Does a company, whose employees are using an AI tool with a human-in-the-loop approach, comply with the AI training with internal resources?

These are two distinct questions. The employees and the human-in-the-loop need the appropriate skills, targeted as to the system they are using.

Can we consider people with a degree/experience in AI development as AI literate (in the context of article 4 of the AI Act) without taking any further action?

Normally yes, but it depends on the Al tool in question and their specific qualification. This is particularly relevant in view of the speed of the technological developments.

The organisation should still consider the steps in the answer to question 1 and asks itself: Do these technical employees know what needs to be known about the AI systems of the organisation and how to deal with them? Are they aware of all risks and how to avoid/mitigate them? Moreover, the organisation should consider what else these employees might need to know; e.g., legal and ethical aspects of AI.

Are Al literacy training concepts allowed to differentiate between different levels of detail?

Yes, article 4 of the AI Act encourages providers and deployers to consider the knowledge, experience, education and

training of employees and other persons to provide a sufficient level of Al literacy. Given the difference between Al systems and that the level of knowledge and experience, as well as the type of education and training received, might vary, having different levels of training or learning approaches can be appropriate.

How do organisations have to document their actions to comply with article 4 of the AI Act and the best effort provisions in it? Do they need specific certificates?

There is no need for a certificate. Organisations can keep an internal record of trainings and/or other guiding initiatives.

Is an AI officer necessary similarly as for the GDPR? Can a DPO and AI officer be the same person? Shall an organisation set up an AI governance board?

No, no specific governance structure is mandated to comply with article 4 of the Al Act.

Enforcement of article 4

When will the enforcement start? Is a company already late/at risk if it has not yet an established AI literacy initiative?

Article 4 of the Al Act entered into application on 2 February 2025, therefore the obligation to take measures to ensure Al literacy of their staff already applies. The supervision and enforcement rules apply from 3 August 2026 onwards.

Who will be enforcing article 4 and on which basis?

The supervision and enforcement of Article 4 of the AI Act is not with the AI Office, but it is under the remit of national market surveillance authorities that will have to be nominated by 2 August 2025. The national market surveillance authorities will start supervising and enforcing the rules as of 2 August 2026. While decisions on enforcement are with the national market surveillance authorities in the different Member States, the AI Office will work closely with the AI Board to support an appropriate implementation.

When market surveillance authorities are designated, could they impose penalties for non-compliance starting from 2 February 2025? Are we to expect a difference in this assessment by national authorities?

The prohibitions apply since 2 February 2025. With the Al Board and cooperation between all relevant authorities, a coherent application of the rules will be ensured.

What consequences could an organisation face if they are considered to not comply with Article 4 of the AI Act? In what part of Chapter XII is this set out?

National market surveillance authorities could impose penalties and other enforcement measures to sanction infringements of Article 4. This will be based on national laws that Member States are due to adopt by 2 August 2025.

It is important to underline that the enforcement of the AI Act follows a proportionate approach. Any sanction must be proportionate, based on the individual case and take into account factors such as nature and gravity and the intentional and negligent character of the infringement. This might, however, be more likely if there is proof of an incident due to lack of appropriate training and guidance of employees or other persons.

How does article 4 of the AI Act apply to countries outside the EU who are willing to provide services to EU based countries?

The AI Act's legal framework applies to both public and private actors inside and outside the EU as long as the AI system is placed on the Union market, used in the Union or its use has an impact on people located in the EU. This is also valid for Article 4 of the AI Act.

What do you mean that Article 4 of the AI Act is for private enforcement and for public enforcement?

Public enforcement means that each Member State will nominate authorities responsible to enforce the provisions of the Al Act, who supervise and enforce compliance to this law. Private enforcement relates to the scenario where a private person suffers harm and considers that this is due to an organisation not complying with the obligation of Article 4 and sues the organisation to receive damages.

Regarding private enforcement: does this imply that employees may sue their employers if they feel they did not receive adequate training? Could you outline how the police or a law firm might help?

When there is a harm/damage, the provider of an AI system can be sued, according to national law. The AI Act doesn't create criminal offences or a right to compensation.

Al Office approach to Al literacy

Will the AI Office issue guidelines on Article 4 of the AI Act like the guideline for prohibited systems published or something comparable or will this be a task for Member States?

For the moment, guidance will be provided via further examples of practices, webinars and clarifications via this Q&A.

Further guidance on enforcement might be provided by the relevant national market surveillance authorities once nominated. The AI Office will work closely with the AI Board on the topic of AI literacy, in alignment with article 66(f) and article 95(2f) of the AI Act.

Since the training is context-specific, will the AI Office issue guidelines for providers of highrisk AI systems of Annex III, to assist them on this front?

The Commission will publish guidelines on the application of the requirements and obligations referred to in Articles 8 to 15 and in Article 25 Al Act, and these guidelines will also touch upon issues of literacy, when discussing for example human-oversight or risk-management.

Does the Commission already have a plan to put in place Article 4 of the Al Act in terms of its own employees?

The Al@EC Communication

(https://commission.europa.eu/publications/artificial-intelligence-european-commission-aiec-communication_en) already identified as operational action to *Develop a policy to build and maintain an Al-skilled workforce*. The European Commissions has already implemented several measures for its staff regarding Al literacy:

- The creation of internal AI specific web portal as one-stop shop accessible to all staff to the AI related content AI guidelines, AI training resources, events, and news.
- Definition on the Commission training platform of Al learning packages, oriented to different targets generalist, managers, and developers (specialist). These packages contain a curated list of relevant trainings, categorising then on essential, highly recommended and recommended. Additional trainings and recording of webinars are available also in the platform.
- Al tools trainings Specific section in the Al portal list the Al tools, available to all staff has been created that includes the relevant learning resources for each tool. There are periodic Q&A sessions on using Al in your daily work.

• An Al community of practice exists where any person can do questions related to Al and interact with Al experts.

How does the AI Office plan to support EU agencies in developing their AI literacy programs?

Currently, many of the agencies have already access to the Commission's learning platform (EU-Learn) as well as to resources such as the Al learning packages and other trainings of the Commission.

What additional guidance and resources do the AI Office plan to release in the near future? Will the AI Office share a rubric to test for compliance with AI literacy?

To support the implementation and compliance with article 4 of the AI Act, the AI Office will continue nurturing the <u>living repository (https://digital-strategy.ec.europa.eu/en/library/living-repository-foster-learning-and-exchange-ai-literacy)</u> on AI literacy practices, gathering further examples from organisations, and updating the Q&A at hand. Further awareness activities will be organised and a dedicated webpage for activities related to AI literacy (within and beyond the remit of article 4), skills and talent will be launched with the aim of promoting access to AI literacy and foster dialogue on AI for all.

How could industry organisations be of any help for the development of AI literacy?

The AI Office highly values the insights and expertise of all stakeholders, including the industry. For this reason, we have created the AI Pact to foster the creation of a collaborative community, where stakeholders can share best practices and internal policies that may be of use to others in their compliance journey. With respect to AI literacy, within the AI Pact we have recently published a living repository of AI literacy practices; any provider and/or developer of AI systems that has put in place an AI literacy programme is invited to <a href="submitted-understate-under

On a regular basis, the Al Office will verify that all contributions received meet the minimum criteria of transparency and reliability before accepting them into the public repository. During the verification period, the survey might be temporarily closed.

Other useful resources

How and where might one get reading access to the living repository?

The living repository on Al literacy practices is freely available on our website: <u>Living repository to foster learning and exchange on Al literacy</u>
(https://digital-strategy.ec.europa.eu/en/living-repository-foster-learning-and-exchange-ai-literacy)

The repository includes several examples of ongoing initiatives to foster AI literacy organisations of different sizes providing and/or deploying different types of AI systems in various private and public sectors. The practices provide examples on how to approach the knowledge of different employees (e.g. technical – such as the one of developers, vs. non-technical, such as the one of an administrator or legal officer), but also refers to initiatives for other persons, including vendors, partners, clients. The list of practices is non-exhaustive and will be updated with further practices on a regular basis.

While replicating the practices collected in this living repository does not automatically grant presumption of compliance with Article 4, the repository aims to encourage learning and exchange among providers and deployers of AI systems. By publishing the practices, the Commission does not imply either endorsement or evaluation in any way.

How can SMEs with limited resources ensure that their employees acquire the necessary Al literacy? Are there specific training initiatives or EU support programs?

An example of EU initiative that could be of support to SMEs is the network of the European Digital Innovation Hubs (EDIHs). EDIHs are 251 one-stop shops across Europe (27 Member States, 3 EFTA countries – Norway, Iceland, and Liechtenstein; 8 associated countries: Albania, Bosnia and Herzegovina, Kosovo, Montenegro, North Macedonia, Serbia, Turkey, and Ukraine), supporting SMEs and public sector organisations to digitalise their processes. 80% of EDIHs already provide services focused

on AI, including trainings, workshops, bootcamps for different needs and levels of knowledge of AI. SMEs and public sector organisations can contact EDIHs to receive support with AI technologies and their digitalisation goals more broadly. EDIHs can assist as first help desk on the AI Act and serve as entry points to other EU-funded supporting measures (Leaflet_web_v10.pdf), such as, among others, Testing and Experimentation Facilities (TEFs) or AI Factories. You can find the EDIH closest to you on this catalogue

 $\label{lem:catalogue} $$($https://european-digital-innovation-hubs.ec.europa.eu/edih-catalogue?f\%5B0\%5D=edih_soe\%3Aedih&f\%5B1\%5D=edih_soe\%3Asoe).$

Does the AI Office offer AI literacy basic courses for citizens or do you have already trainings on AI that you recommend?

In the context of the AI Pact, the AI Office hosts events and webinars to engage the AI community, promote knowledge sharing, and best practices to foster trustworthy AI. You can find all recordings of past events and the announcement of upcoming ones on the dedicated page: AI Pact Events (https://digital-strategy.ec.europa.eu/en/policies/ai-pact-events)

Further useful material on Al can be freely accessed via the <u>Digital Skills and Jobs Platform</u> (https://digital-skills-jobs.europa.eu/en), including:

- <u>Training offers</u> (https://digital-skills-jobs.europa.eu/en/opportunities/training?f%5B0%5D=digital_technology%3Ahttp%3A//data.euro pa.eu/uxp/3030)
- <u>Learning Path</u> (https://digital-skills-jobs.europa.eu/en/learning-path?f%5B0%5D=digital_technology%3Ahttp%3A//data.europa.eu/ux p/3030)
- <u>Learning Content</u>
 (https://digital-skills-jobs.europa.eu/en/learning-content?f%5B0%5D=digital_technology%3Ahttp%3A//data.europa.eu/uxp/3030)

Is there a specific competence framework when addressing AI Literacy, including for parents, children, caregivers, students and teachers?

As there is no one-size-fits-all approach for Al literacy, there is also not one unique framework. Below are reported some of the most used frameworks at European and international level, according to their target group.

For all citizens

- The <u>Digital Competence Framework for Citizen</u>
 (https://pact-for-skills.ec.europa.eu/community-resources/publications-and-documents/digcomp-22-digital-competence-framework-citizens_en) provides a common understanding of what digital competence is. The publication has two main parts: the integrated DigComp 2.2 framework provides more than 250 new examples of knowledge, skills and attitudes that help citizens engage confidently, critically, and safely with digital technologies, including AI. A new version of the framework will be released in 2025.
- The <u>Digital Skills and Jobs Platform (https://digital-skills-jobs.europa.eu/en/search?fulltext=artificial%20intelligence)</u> provides open access to a wide variety of high-quality information and resources for everyone interested in the broad topic of digital skills and jobs, including on the topic of Artificial Intelligence.

For the education sector, teachers and learners:

• These ethical guidelines on AI and data usage in teaching and learning (https://op.europa.eu/en/publication-detail/-/publication/d81a0d54-5348-11ed-92ed-01aa75ed71a1/language-en) are designed to help educators understand the potential that the applications of AI and data usage can have in education and to raise awareness of the possible risks so that they are able to engage positively, critically and ethically with AI

- systems and exploit their full potential.
- The European School Education Platform offers a number of <u>materials on Al for teachers and learners</u> (https://school-education.ec.europa.eu/en/discover/news/ai-teaching-and-learning).
- The community of practice of the <u>Digital Education Hub</u>
 (https://education.ec.europa.eu/focus-topics/digital-education/digital-education-hub/about-the-hub) offers an opportunity to education and training stakeholders to discuss and exchange on digital education topics, including Al. Within the Hub, a dedicated working group (squad) has published a report on <u>Al in education</u>
 (https://school-education.ec.europa.eu/en/discover/publications/ai-report-european-digital-education-hubs-squad-artificial-intelligence-education) providing further insights on Al skills development and teacher training.
- The <u>UNESCO's AI competency framework for teachers (https://unesdoc.unesco.org/ark:/48223/pf0000391104)</u> is intended to support the development of AI competencies among teachers to empower them to use these technological tools in their teaching practices in a safe, effective and ethical manner.
- The <u>UNESCO's AI competency framework for students (https://unesdoc.unesco.org/ark:/48223/pf0000391105)</u> aims to serve as a guide for public education systems to build the competencies required of all students and citizens for the effective implementation of national AI strategies and the building of inclusive, just and sustainable futures in this new technological era.

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