

Annex to *Guidance on the use of artificial intelligence (AI) for IEC Committees* – List of relevant AI tools for IEC Committees

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1. Introduction

As a participant in IEC activities, you may be wondering when and which kind of AI tools you can use for your work at IEC. When an AI tool mentioned below is licensed to you by IEC it will be so indicated; if the tool is not licensed to you by IEC, you may only use the tool to inspire creativity and guide research.

As such, the below is an evolving list of relevant AI tools, and considerations regarding their potential use, for IEC technical committees, subcommittees, and systems committees (IEC Committees) which is provided for information and convenience only, as a supplement for the *Guidance on the use of artificial intelligence (AI) for IEC Committees* when writing and developing IEC International Standards and other publications.

When an AI tool mentioned below is licensed to you by IEC it will be so indicated; if the tool is not licensed to you by IEC, you may only use the tool to inspire creativity and guide research.

IEC licensed AI Tools – currently, the IEC has a licence for the Zoom meeting companion to prepare meeting summaries, and the IEC Secretariat including Technical Officers have a licence for Microsoft Co-pilot.

The IEC will continually review the appropriate licenced AI tools for IEC standards development, and we encourage Committees and experts to discuss potential AI applications with your Technical Officer.



Before using an AI tool for IEC technical work, you must ensure that you respect the *Guidance on use of artificial intelligence (AI) by IEC Committees*. Only tools provided by the IEC Secretariat for the writing and development of IEC International Standards and other publications may be used when inputting or generating IEC content, including drafts.

2. AI tools for meetings

Online meetings

- Zoom AI companion with summary to draft meeting reports
- Zoom AI companion with summary to generate a quick summary of the meeting

Licensed for
IEC work!

Tool name		Notes	Examples
Zoom AI Companion	Plug-in integrated into Zoom Client	This is enabled for any IEC Zoom meeting, plug-in managed by Zoom administrators	Technical committee / Working group meetings

3. AI tools for research or information purposes only

Tool name		Notes	Examples
Bing	copilot.microsoft.com	When signing in with an Office 365 account, Bing can be a powerful research tool. Please note that your individual or corporate license cannot be used to input, manage, or create IEC content.	Research on a specific technical topic, assessment method and related standards
ChatGPT	chat.openai.com	Unpaid Version – Use is tolerated for information purposes only. IEC content cannot be inputted. Please note that your individual or corporate license cannot be used to input, manage, or create IEC content.	Research on a specific technical topic, assessment method, and related standards
Perplexity	www.perplexity.ai	Unpaid Version – Use is tolerated for information purposes only. IEC content cannot be inputted. Please note that your individual or corporate license cannot be used to input, manage, or create IEC content.	Alternative search engine to pose questions and receive concise answers and information

4. AI tools for translation and grammar checking (to facilitate understanding only)

Tool name		Notes	Examples
DeepL	www.deepl.com	Unpaid version – Use is tolerated for information purposes only. IEC content cannot be inputted. Please note that your individual or corporate license cannot be used to input, manage, or create IEC content.	Translation of non-IEC content – technical material that may require translation to understand. No translation of IEC International Standards or other publications, including drafts
Grammarly	www.grammarly.com	Unpaid version – Use is tolerated for information purposes only. IEC content cannot be inputted.	Grammar check for generic text that is not specific to IEC

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5. AI tools for content generation to inspire creativity – no use or creation of IEC content creation permitted

Tool name		Notes	Examples
Adobe Photoshop Adobe Premier		Please note that your individual or corporate license cannot be used to input, manage, or create IEC content.	Generation and editing of photos and illustrations
Bard	gemini.google.com	Unpaid version – Use is tolerated for information purposes only. IEC content cannot be inputted. Please note that your individual or corporate license cannot be used to input, manage, or create IEC content.	Content creation tool
Colossyan	www.colossyan.com	Unpaid version – Use is tolerated for information purposes only. IEC content cannot be inputted. Please note that your individual or corporate license cannot be used to input, manage, or create IEC content.	A platform that uses artificial intelligence to create videos from text. May have application for standards explainer videos or test methods
Dall-E	openai.com/dall-e-2 openai.com/dall-e-3	Unpaid version – Use is tolerated for information purposes only. IEC content cannot be inputted. Please note that your individual or corporate license cannot be used to input, manage, or create IEC content.	Can create realistic images and art from a description in natural language
HourOne	hourone.ai	Unpaid version – Use is tolerated for information purposes only. IEC content cannot be inputted. Please note that your individual or corporate license cannot be used to input, manage, or create IEC content.	Video creation AI platform
Jasper	www.jasper.ai	Unpaid version – Use is tolerated for information purposes only. IEC content cannot be inputted. Please note that your individual or corporate license cannot be used to input, manage, or create IEC content.	Used to generate text, translate languages, write various types of creative material

The IEC Secretariat may provide AI tools to IEC technical committees considering the below possible desired objectives or considerations:

Research and information gathering

- Research on technical matters, information, and processes – e.g., the ‘*various ways to undertake electrical switch reliability testing*’
- Research on applicable technical standards – what is available for a topic – ‘*what standards apply for electrical switch reliability testing*’

Technical writing

- AI-assisted authoring: consistency with rules and state of the art for requirements, test methods, verifiability, objectivity, etc.
- Draft initial text for a topic
- Improve text readability and grammar
- Reference text from other sources
- Language translation
- Check duplications, references, and definitions
- Summarizing content (abstracts, key concepts, etc.), “intelligent” list of changes (conceptual and technical), generation of metadata
- Search and discovery of content
- Accessibility (e.g. alt text for figures)
- Inclusive language or checking for biases
- Development of chatbot support services
- Terminology management
- Creation of content libraries/collections
- Consistency with respect to other standards – cross-check requirements for conflicts, ambiguity and duplication
- Cross-check for scope overlaps between TCs, check whether the text is within the scope
- Re-use of existing requirements, building appropriate structures
- Suggestions for standards writers how to structure requirements for more clarity and precision
- When an AI tool is used, the foreword of the document should indicate use of AI in its preparation, in accordance with the applicable IEC template

Illustrations and diagrams

- Suggest new illustrations.
- Improve illustrations / process charts.
- Accessibility (e.g. alt text for figures)

Editing

- Language translation: checking repercussions of editorial changes to translated versions
- Internal and external reference check and validation
- Consistency checks: formulation of terminology, provisions, test methods, etc.
- Development of chatbot support services
- Real-time edit services, based on contextual analysis
- Validation of markup (requirements, etc.), content enrichment, classification
- Flagging errors in back-catalogue to improve source material (i.e. identify withdrawn documents) of AI models
- Validation of alternative versions of the same text: standard, new products, etc.
- Curation of content libraries

For questions, please consult your management or the IEC IT Helpdesk, for help using IEC IT tools. For any personal data protection, intellectual property, or licensing concerns please contact your National Committee or the IEC legal team through your Technical Officer.

Any FAQs regarding the use of AI by IEC technical committees will be published on the Committee resource area at <https://www.iec.ch/standards-development/resource-area>.