

Session title: Using Generative AI to create scaffolded formative assessment activities

Session type: Workshop (60 mins)

Main presenter: Sue Beckingham, Sheffield Hallam University

Co-presenter: Professor Peter Hartley, Edge Hill University

Session summary:

This workshop will review the latest developments in Generative AI (GenAI) tools and their applications across HE, explain the craft of prompt engineering and how this can differ within different platforms, and then consider how GenAI can be used to create formative assessment activities to use with students. The session will include hands-on activities using ChatGPT, which has recently been extended to enable text to image conversion.

Session outline:

Key issues to be addressed are:

- How do we define effective formative assessment?
- What can GenAI do, and what are its limitations?
- What GenAI tools and techniques are now readily available?
- How can we use GenAI tools effectively in formative assessment?

Generative AI (GenAI) has applications and implications for every subject discipline and every HE institution (1). Rapid technical development means it is now embedded in applications such as Microsoft 365 and Google Workspace (2). The range of applications has also increased; for example, in addition to producing coherent text in a variety of formats and styles, ChatGPT can now talk to you and produce text from image prompts (3). Profound implications for the world of work have been suggested which we need to prepare students for (4). At the very least, teaching staff need to be familiar with what GenAI can (and cannot) do (5).

This workshop is a hand-on introduction to using GenAI tools in formative assessment. To gain most benefit from the session, participants should bring an appropriate device (laptop/tablet) and sign up for ChatGPT beforehand. (see Instructions below). We also invite participants to think of a possible formative assessment they would like to develop which could use GenAI.

Plan

1. Introduction (5 mins)
 - Overview and objectives
2. Developments in GenAI tools (10 mins)
 - Current GenAI applications in education.
 - Comparing GenAI tools for text and image generation.
 - How to develop effective prompts.

3. Exploring AI Tools (10 mins)
 - Interacting with GenAI to understand/test the effectiveness of prompting. (Initial starting examples will be provided)
4. Designing Formative Assessment Activities (10 mins)
 - Defining formative assessment activities.
 - Guidelines for designing effective formative assessments using GenAI.
5. Hands-On Activity (10 mins)
 - Groups design an outline of a formative assessment activity using GenAI.
6. Sharing and Feedback (15 mins)
 - Group present their formative assessment activity.
 - Feedback and review.

References:

(1) Philippa Hardman (2023) "Dr. Philippa Hardman - The AI Education Revolution is Coming - or is it?" □ In Making Waves Conversations by Mark Sylvester (05/03/2023). See at <https://tedxsantabarbara.com/2023/dr-philippa-hardman-the-ai-education-revolution-is-coming-or-is-it/>

(2) Ina Fried (2023) "Microsoft, Google rebuild their worlds around AI." □ Microsoft Start (22/9/23) See at: <https://www.msn.com/en-us/money/other/microsoft-google-rebuild-their-worlds-around-ai/ar-AA1h5YmS#image=1>

(3) Lauren Goode and Will Knight (2023) ChatGPT "Can Now Talk to You""and Look Into Your Life." □ Wired (25/9/23). See at: <https://www.wired.com/story/chatgpt-can-now-talk-to-you-and-look-into-your-life/>

(4) KPMG (2023) "Generative AI and the UK Labour Market." □ See at: <https://assets.kpmg.com/content/dam/kpmg/uk/pdf/2023/06/generative-ai-and-the-uk-labour-market.pdf>

(5) Examples include the principles developed by the Russell Group (see at: <https://russellgroup.ac.uk/news/new-principles-on-use-of-ai-in-education/>) and guidance from individual universities such as Edinburgh (see at: <https://www.ed.ac.uk/bayes/ai-guidance-for-staff-and-students/ai-guidance-for-staff>).

Can we add this please to make the session inclusive for all

Instructions to create a free ChatGPT account

Step 1: Navigate to OpenAI's Website

Go to <https://chat.openai.com/>

Step 2: Sign Up for an Account

Click on the "Get Started" button found on the top-right corner.

Enter your email, set a password, and follow the prompts to create an account.

Step 3: Sign In.

Step 4: Click "New Chat"  at the top left corner.

Type a question or prompt and press enter to start using ChatGPT.

Note: Once you have done this you have the option to download the ChatGPT app on iPhone or Android, should you wish to access via your phone.