

Office of the State Superintendent of Education and University of the  
District of Columbia (OSSE AFE & UDC)  
Fall 2025 Mini-Professional Development Institute

Session 2

# Leveraging AI to Revolutionize Assessment Design



UDC Adult Education Team:

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OSSE AFE Team

# Activity 1 – Assessment Insights Word Cloud

## In the chat:

- Type your name and agency
- Click the link or scan the QR code to join the Mentimeter word cloud:

<https://www.menti.com/alk3cz43ovns>

- Enter one word or phrase that describes your readiness to design assessments with AI and GenAI for your learners/clients.



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# Objectives

By the end of this session, you will be able to:

- **Understand** the opportunities and challenges of AI and generative AI in education.
- **Evaluate** existing assessments for AI vulnerabilities and opportunities.
- **Explore** strategies for designing *AI-aware assessments* that emphasize higher-order thinking and authenticity.
- **Reflect** on implications for academic integrity and feedback in an AI-rich classroom.



01

# About Artificial Intelligence (AI)

Understanding the Fundamentals of AI Technology

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# What is Artificial Intelligence (AI)?

Artificial Intelligence (AI) is **the umbrella term** for all technology that enables computers to perform tasks that typically require human intelligence.

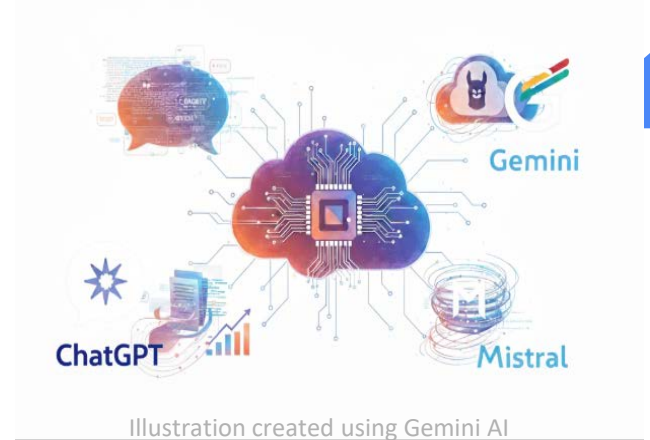


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# Examples of AI in Daily Life & Work

## Examples of AI in daily life and work:

- **Computer vision:** AI can identify objects, faces, or scenes in photos and videos. For example, Google Photos automatically tags people, and self-driving cars recognize stop signs.
- **Text-to-speech and speech-to-text:** AI converts written words into spoken language or transforms spoken words into text. Common examples include voice assistants like Siri or Alexa and dictation tools.
- **Recommender systems:** AI suggests things users might like based on past behavior, such as Netflix recommending shows, Amazon suggesting products, or Spotify creating personalized playlists.
- **Robotics:** AI enables machines to act independently and perform tasks. For instance, a robot vacuum navigates a room or warehouse robots move packages.

# History of AI



**Neural Networks**

1950-1970



**Machine Learning**

1980-2010



**Deep Learning**

Today

Source: <https://omq.ai/blog/history-of-ai/>

# AI Ethics Concerns

## Common Challenges and Risks in AI

### Data & Bias

1. **Bias:** AI data can reflect and reinforce human bias and discrimination.
2. **Datafication:** Everyday life is turned into data, raising privacy and exploitation concerns.
3. **Privacy:** Personal data can be collected and used without consent.

### Society & Impact

4. **Truth:** AI may enable plagiarism, cheating, and the spread of fake or misleading information.
5. **Copyright:** Outputs may infringe on copyright or intellectual property rights.
6. **Human Labor:** Workplace automation and AI can cause job disruption, displacement and exploitation.

### Power & Environment

7. **Affect Recognition:** AI's analysis of emotions can result in privacy violations and discrimination.
8. **Power:** AI can deepen global power imbalances and widen structural inequalities.
9. **Environment:** Mining, energy consumption, and digital waste from AI use threaten the planet.



Illustration created using Gemini AI

# 02

# About Generative AI (GenAI)

Exploring Artificial Intelligence that Produces New Data

# What is Generative AI (GenAI)?

- AI technology that creates new content, solutions, and ideas.
- Responds to prompts in natural, everyday language.
- Produces text, images, audio, code, data, and more. Examples include:
  - **Text (via Chatbots):** ChatGPT, Gemini, Claude. These tools generate human-like text for conversation, answering questions, summarizing, and content creation.
  - **Images:** DALL-E, Midjourney, Adobe Firefly, Imagen (creating art and graphics)
  - **Music:** Suno, Udio, Amper Music (generating songs and soundtracks)
  - **Code:** GitHub Copilot, Tabnine (writing and assisting with programming)
- Used across fields including business, healthcare, trades, education, public safety, administration, technology, and beyond.

# Today's Leading GenAI Tools

- ChatGPT (*Text, Reasoning & Conversation*)
- Midjourney (*Image Generation*)
- Gemini (*Multimodal, Google AI*)
- Claude (*Conversational AI*)
- Meta AI (*Social Messaging, Meta Platforms*)
- Snapchat My AI (*Social Messaging AI*)
- Copilot (*Microsoft Assistant*)
- Perplexity AI (*Conversational Search & Research*)

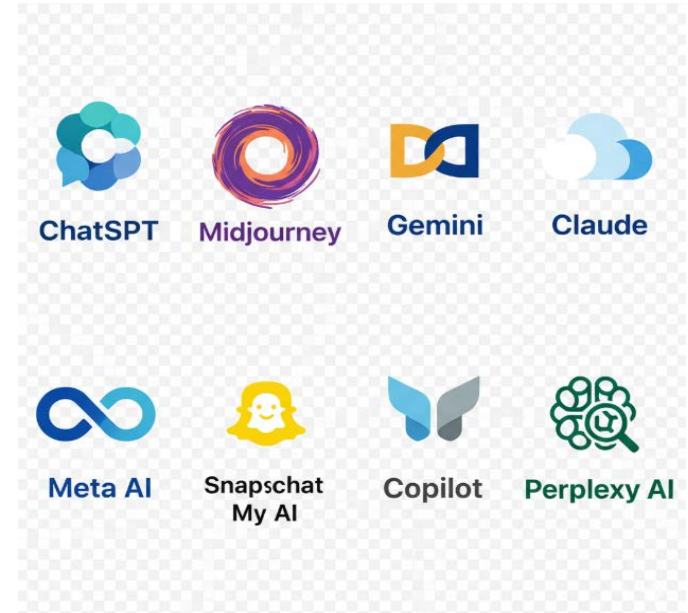


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# Activity 2: Poll - Generative AI Usage in Education and Workforce Practices

Specify the way you are currently using generative AI tools in your professional practice:

- Lesson planning or curriculum development
- Creating differentiated learning resources or personalized learning paths
- Generating instructional materials or classroom content
- Developing assessments or evaluation tools
- Providing feedback on learner work
- Administrative or reporting tasks (emails, scheduling, data management)
- Professional learning or staff development
- Supporting industry-specific needs (e.g., Healthcare, Construction, IT, Business, etc.)
- I am not currently using generative AI tools
- Other (please specify in the chat)



Assessments/Evaluation



Lesson Planning/  
Curriculum



Personalized Learning



Feedback



NO AI



Industry Applications

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## 03

# Designing Freeform & Structured Prompts

Balancing Creativity and Consistency in AI-Driven Assessment Tasks

# Freeform Prompts

- Freeform prompts are open-ended instructions or requests given to an AI system without strict rules or formatting requirements.
- These prompts foster creativity, flexibility, and adaptation for a wide variety of tasks, such as brainstorming, composing original content, or answering complex questions in natural language.
- Ideal for broad or exploratory objectives, they rely on plain language, context driven requests, and let users interact with AI in a conversational, creative manner.

**Tip:** Freeform prompts work best when you want unique ideas, natural conversation, or creative solutions, not just short answers or facts.



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# Structured Prompts

- Structured prompts involve carefully designed instructions with specific context, constraints, formatting, or examples to guide the AI toward predictable and consistent results.
- They are used for defined tasks where clarity, accuracy, and repeatability are essential, and may include roles, steps, or output guidelines to standardize responses.
- Effective structured prompts provide sample outputs, specify roles and audience, and use scaffolding (step-by-step instructions, constraints, and format requirements) to ensure repeatable, high-quality AI responses in education and training.



STRUCTURED PROMPTS



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## 03

# Designing Effective AI Prompts for Instruction and Assessment: Applying the RACE, RACEF, and TRACI Frameworks

Practical Strategies and Real-World Examples for Educators and Assessment Designers

# A Quick Guide to Frameworks for Designing Effective AI Prompts

*These frameworks help educators and professionals craft clear, targeted prompts for optimal AI responses.*

## **RACE**

R – Role

A – Action

C – Context

E – Execute/**Expectation**

## **RACEF**

R – Role

A – Action

C – Context

E – **Examples**

F – Format/Follow-up

## **TRACI**

T – Task

R – Role

A – **Audience**

C – Create

I – Intend/Instruction

*Choose the best-fit framework for your audience, task, or output needs.*

# RACE Framework: Structured Prompt

- **R = Role:** Who is the AI or what perspective should be used?  
Ex: A math instructor, a resume coach, a health educator
- **A = Action:** What should the AI do or produce?  
Ex: Explain dosage calculation, review a resume, create a health safety tip
- **C = Context:** What background, scenario, or audience should be considered?  
Ex: For adult learners in a workforce math class, for job seekers, for families
- **E = Execute/Expectation:**
  - **Execute:** What output, format, or deliverable is required?  
Ex: Summarize the main points in three bullet paragraphs, present data in a comparison table.
  - **Expectation:** What is the expected standard, length, or detail level?  
Ex: Write a sample dialogue between a teacher and student, design a multiple-choice quiz with answers.

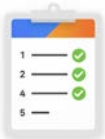
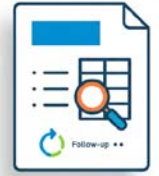


Illustration created using Gemini AI

# RACEF Framework: Scaffolded Prompt

- **R = Role:** Who is the AI (expert, instructor, student, etc.)?  
Ex: A high school science teacher, digital skills trainer
- **A = Action:** What action should be performed?  
Ex: Develop a quiz, summarize new AI trends
- **C = Context:** What is the specific scenario or audience?  
Ex: For online (asynchronous) students, for a digital literacy workshop
- **E = Example:** What sample, demo, or model should the AI follow or include?  
Ex: Format like a multiple-choice quiz, use a sample news bulletin
- **F = Format/Follow-up:**
  - **Format:** In what structure (bullets, table, essay, etc.) should the response appear?  
Ex: List the main ideas as numbered bullets; organize information in a two-column table.
  - **Follow-up:** Should additional actions (like a summary, next steps) be included?  
Ex: Add a brief summary of findings; suggest two actionable next steps for the learner.



# TRACI Framework: Guided Prompt

- **T = Task:** What is the core purpose or assignment?  
Ex: Teach how to round numbers using syringes
- **R = Role:** What expertise or perspective guides the answer?  
Ex: You are a certified medical assistant
- **A = Audience:** Who is the target user or learner?  
Ex: For entry-level adult learners in healthcare
- **C = Context:** What relevant background or scenario shapes the response?  
Ex: In a HyFlex class using digital and physical simulation
- **I = Intent/Instruction:**
  - **Intent:** What is the desired learning goal or outcome?  
Ex: To ensure learners confidently apply mathematical reasoning to dosage calculations in patient care.
  - **Instruction:** What special guidelines or directions should shape the response?  
Ex: To help students accurately convert measurements and safely administer medication in simulated clinical scenarios.



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Illustration created using Gemini AI

# 04

## Practical Applications of GenAI in Education and Workforce Programs

Strategies and Tools for Transforming Learning and Career  
Readiness

# Four Key Practical Applications of GenAI in Education and Workforce Programs

## 1. AI Curriculum Integration

- Lesson Design
- Automated Feedback
- Student Adaptation

## 3. Critical Thinking and Deep Learning

- AI-facilitated debates or Socratic questioning to strengthen analytical skills.

## 2. AI Literacy and Awareness

- Foundational Skills
- AI-Focused Modules and Literacy Exercises

## 4. AI Innovative Assessment

- Project-Based
- Portfolio Evaluations
- Beyond Traditional Tests

# AI Integration Across The Curriculum

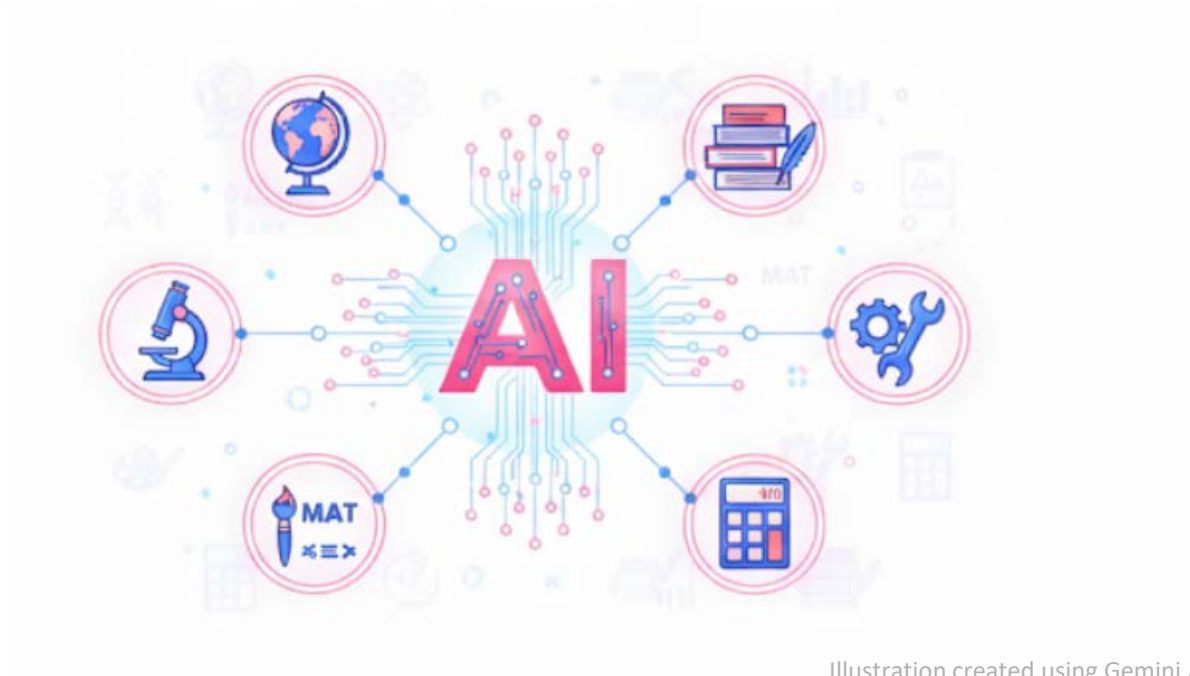


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# Integrating GenAI Across the Curriculum: Practical Strategies for All Learners



## AI Integration Across The Curriculum

- **K-12:** Personalized support in STEM, language arts, and social-emotional learning.
- **Adult Education:** Project-based learning and college/career readiness skills.
- **Postsecondary:** Adaptive learning platforms, inclusive teaching, and AI-driven academic support.
- **Integrated Education & Training and Digital Literacy (IE&T+D)/Workforce Training:** Tailored training materials and career guidance.



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# AI Integration Across the Curriculum Using the RACE Framework

- **Role:** You are a 10<sup>th</sup> high school math teacher.
- **Action:** Create a real-world quadratic word problem focusing on maximizing the area of a garden.
- **Context:** The problem should be suitable for 10th grade students and include step-by-step solution guidance and a graph of the solution.
- **Execute:** Generate the word problem, solution steps, and graph, and present them in a clearly structured, labeled format for classroom use.
- **Expectation:** The output should model a clear word problem, full solution process, and graph interpretation.

## Key Takeaways for Students and Instructors:

- **Instructor Gains:** Experience designing structured, authentic math tasks using GenAI for engaging, differentiated instruction.
- **Student Gains:** Practice real-world mathematical modeling, receive clear feedback, and deepen understanding through visualization and problem creation.

# AI Integration Across the Curriculum Using the RACEF Framework

- **Role:** You are a 10th grade math instructor designing authentic learning experiences.
- **Action:** Compose a quadratic word problem about optimizing the area of a garden, guiding students through the solution and interpretation of the results.
- **Context:** Students are studying real-world applications of quadratics and need connected, visual examples.
- **Example:** A rectangular garden is to be built along an existing wall. You have 40 meters of fencing for the other three sides. What dimensions maximize the area? Provide the equation, solution, and a graph.
- **Format:** Return as a clearly labeled word problem, followed by a step-by-step algebraic solution (showing key equations and calculations), and conclude with a graph or visual sketch of the solution.
- **Follow-up:** Invite students to modify variables (e.g., change fencing length, garden shape), generate new word problems collaboratively, and explain how these changes alter the problem's solution and graph.

# AI Integration Across the Curriculum Using the RACEF Framework (cont.)

## Key Takeaways for Students and Instructors:

### *Instructor Gains:*

- Builds expertise in crafting differentiated, context-rich, standards-based problems using AI.
- Practices extending and adapting activities for various learners and collaborating with students in real time.
- Develops skills integrating visuals and multiple solution approaches, enriching lesson planning and formative assessment.

### *Student Gains:*

- Connects mathematics to practical scenarios with direct relevance.
- Receives step-by-step modeling, immediate AI feedback, and rich visual learning.
- Enhances higher-order thinking by adjusting variables, generating peer problems, and interpreting alternative solutions.

# AI Integration Across the Curriculum Using the TRACI Framework

- **Task:** Develop and teach a quadratic word problem where students maximize the area of a garden using variable fencing lengths.
- **Role:** You are a 10th grade math instructor facilitating project-based, real-world learning.
- **Audience:** High school students working independently or in teams.
- **Context:** Unit on quadratic functions and applications, with emphasis on personalized and visual learning.
- **Intent:** Enable students to use AI tools to model real-world math scenarios, collaborate, and understand quadratic functions more deeply.
- **Instruction:** Guide students to input the scenario into ChatGPT, review the generated prompt, solve it collaboratively, visualize the graph, and create/modify parallel problems for each group.

# AI Integration Across the Curriculum Using the TRACI Framework (cont.)

## Key Takeaways for Students and Instructors:

### *Instructor Gain:*

- Hones modeling and coaching for student use of GenAI in authentic, standards-aligned math.
- Enhances lesson differentiation and formative assessment strategies using AI.
- Expands ability to build a classroom culture of inquiry and peer-teaching.

### *Student Gain:*

- Increases skill in setting up and solving real-world problems.
- Strengthens peer and self-directed learning, visualization, and analysis.
- Deepens engagement and conceptual retention through multiple iterations and representations.

# Developing AI Literacy and Awareness



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# Developing AI Literacy and Awareness: Practical GenAI Skills for Every Learner

## Developing AI Literacy and Awareness

- **K-12:** Teaching AI safety, bias awareness, and ethical use.
- **Adult Education:** Enabling adults to understand, use, and evaluate AI, with a focus on digital literacy, ethical use, and hands-on experience for real-life contexts
- **Postsecondary:** Promoting academic integrity, digital ethics, and equitable access.
- **IE&T+D/Workforce Training:** Building foundational AI literacy for all learners, including understanding algorithms and responsible information use.



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# Developing AI Literacy and Awareness Using the RACE Framework

- **Role:** You are a workforce skills instructor.
- **Action:** Simulate a customer service interaction for a delayed shipment.
- **Context:** The response should model empathy, professionalism, and effective problem resolution.
- **Execute:** Write the customer's inquiry, the AI-generated customer service response, and a follow-up critique section in bulleted or paragraph form
- **Expectation:** The example reply should be useful for a trainee and include a brief critique of tone and clarity.

## Key Takeaways for Students and Instructors:

- **Instructor Gain:** Learn to structure AI-based customer service scenarios to teach communication, empathy, and responsible digital practice.
- **Student Gain:** Develop practical digital literacy, analyze AI support, and understand its strengths/limitations in customer-facing roles.

# Developing AI Literacy and Awareness Using the RACEF Framework

- **Role:** You are a customer service instructor aiming to enhance digital communication awareness.
- **Action:** Simulate a customer requesting a delayed order update and draft an optimal support reply using AI.
- **Context:** Trainees are preparing for client-facing roles and need to reflect on empathy, tone, and escalation when leveraging AI.
- **Example:** A customer asks, 'Where is my package? It was due two days ago.' Compose a clear, empathetic response. Then critique the AI's reply for professionalism, tone, and effectiveness.
- **Format:** Provide the scenario and have the AI reply as a customer service rep, then offer critique section that highlights strengths, weaknesses, and scripts for improved responses.
- **Follow-up:** Have participants compare AI responses, identify the best elements and areas for improvement, and develop guidelines for when to rely on AI versus a human agent.

# Developing AI Literacy and Awareness Using the RACEF Framework (cont.)

## Key Takeaways for Students and Instructors:

### *Instructor Gain:*

- Improves lessons on digital professionalism and empathy.
- Gains tools to lead discussions about AI's strengths, ethical limits, and customer engagement.
- Models real-world customer interaction and how to critique/coach digital replies.

### *Student Gain:*

- Practices drafting, evaluating, and refining communications for real scenarios.
- Recognizes ethical and procedural factors in digital customer interactions.
- Gains confidence distinguishing AI-generated excellence from areas needing human touch.

# Developing AI Literacy and Awareness Using the **TRACI** Framework

- **Task:** Lead a digital literacy activity where participants role-play customer queries and use AI to draft responses.
- **Role:** You are a workforce instructor advancing digital communication and ethical awareness.
- **Audience:** Adult learners in customer service upskilling course or digital literacy program.
- **Context:** Preparation for real-world client communication, escalation procedures, and ethical dilemmas.
- **Intent:** To promote mathematical modeling, connect algebra to real life, and foster both calculation and conceptual graph interpretation.
- **Instruction:** Facilitate role-play scenarios, use ChatGPT as a resource for response drafts, and hold discussion for peer review, critique, and human-AI decision boundaries.

# Developing AI Literacy and Awareness Using the **TRACI Framework** (cont.)

## Key Takeaways for Students and Instructors:

### *Instructor Gain:*

- Develops robust, discussion-based modules to grow both technical and soft skills.
- Expands capacity to address digital ethics, conflict resolution, and escalation in instruction.
- Builds reflective practice into digital workforce training.

### *Student Gain:*

- Practices analyzing, composing, and revising client communications.
- Learns to identify model responses, ethical pitfalls, and escalation best practices.
- Gains workplace readiness in judgment and professionalism.

# Fostering Critical Thinking and Deep Learning



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# Fostering Critical Thinking and Deep Learning with GenAI: Practical Strategies for All Learners



## Fostering Critical Thinking and Deep Learning

- **K-12:** Emphasizing critical thinking, creativity, and collaboration through project-based and hands-on learning.
- **Adult Education:** Emphasizing critical thinking, collaboration, and creativity.
- **Postsecondary:** Developing research, analytical, and digital skills for the future workforce.
- **IE&T+D/Workforce Training:** Problem-solving, adaptability, and cross-functional skills promoted in job prep programs.



# Fostering Critical Thinking and Deep Learning Using the RACE Framework

- **Role:** You are a logistics training facilitator.
- **Action:** Generate an AI recommendation for optimizing delivery schedules in a company.
- **Context:** Consider typical business data, constraints, and potential human factors.
- **Execute:** Produce the initial AI-generated delivery plan, then facilitate a group discussion to identify improvements, listing both the original and refined solutions.
- **Expectation:** The response should propose a plan and prompt critical evaluation, including what human input improves the solution.

## Key Takeaways for Students and Instructors:

- **Instructor Gain:** Model inquiry-based reflection and team-based critique using GenAI-generated case studies.
- **Student Gain:** Strengthen analytical reasoning and collaborative problem-solving using AI suggestions and human judgment.

# Fostering Critical Thinking and Deep Learning Using the RACEE Framework

- **Role:** Lead workforce learners in process optimization and collaborative critique using AI.
- **Action:** Generate a delivery schedule with ChatGPT based on company data and analyze its effectiveness.
- **Context:** Participants are presented with a real logistics challenge, balancing constraints and human considerations.
- **Example:** Given 5 trucks and 80 packages, each needing timely delivery to 20 locations, how should the schedule be organized? Use AI for an initial plan, then debate its pros and cons, identify missing human factors, and revise the approach.
- **Format:** Ask the AI to outline its reasoning and present its schedule in a table, followed by a group analysis presented as a bulleted list of pros, cons, and revised strategies.
- **Follow-up:** Form groups to present a revised schedule addressing factors like traffic, driver fatigue, customer priority, and special instructions.

# Fostering Critical Thinking and Deep Learning Using the RACEF Framework (cont.)

## Key Takeaways for Students and Instructors:

### *Instructor Gain:*

- Deepens facilitation of collaborative, inquiry-based analysis using technology.
- Practices structuring open-ended, high-value group activities with measurable workforce competencies.
- Cultivates ability to scaffold critical reflection and synthesis of divergent viewpoints.

### *Student Gain:*

- Gains experience dissecting complex AI-generated solutions.
- Strengthens teamwork, critical questioning, and adaptability to real problems.
- Applies holistic reasoning, balancing data, AI costs/efficiency, and human conditions.

# Fostering Critical Thinking and Deep Learning Using the TRACI Framework

- **Task:** Present a logistics scenario for AI-based delivery optimization and facilitate group analysis and improvement.
- **Role:** Workforce educator teaching collaborative problem-solving with technology.
- **Audience:** Adult learners or employees engaged in logistics/process improvement.
- **Context:** Business simulation where participant teams must implement, critique, and improve on AI solutions.
- **Intent:** To develop joint analytical, critical, and creative thinking applied to realistic technology enhanced tasks.
- **Instruction:** Guide group review of the AI's proposal, highlight limitations, and support Synthesis of more robust solutions considering human and situational context.

# Fostering Critical Thinking and Deep Learning Using the TRACI Framework (cont.)

## Key Takeaways for Students and Instructors:

### *Instructor Gain:*

- Develops advanced group facilitation skills for critical analysis of AI-generated content.
- Deepens knowledge of scenario-based assessment and pairing AI with authentic human insight.
- Builds collaborative problem-solving into daily workforce training practices.

### *Student Gain:*

- Gains multi-dimensional thinking, balancing efficiency, safety, and human judgment.
- Improves collaborative decision-making, critique skills, and readiness for tech-driven workplace challenges.
- Develops capacity to iterate and defend new solutions with evidence.

# Innovative Assessment Practices



# Innovative Assessment Practices with GenAI: Practical Strategies for Demonstrating Mastery



## Innovative Assessment Practices

- **K-12:** Incorporating portfolios, presentations, and real-world tasks
- **Adult Education :** Leveraging authentic assessments, portfolios, self and peer evaluations, and real-world projects to demonstrate learning and skill application.
- **Postsecondary:** Multi-modal assessments, peer reviews, and project-based evaluation.
- **IE&T+D/Workforce Training:** Performance-based assessments and digital credentialing for skill mastery.)



# Innovative Assessment Practices Using the RACE Framework

- **Role:** You are a digital security instructor.
- **Action:** Analyze a sample phishing email for risk and legitimacy.
- **Context:** The scenario should reflect workplace security threats and decision-making requirements.
- **Execute:** Present the phishing email, generate the AI's analysis, and display a checklist or summary of action steps, clearly organized for instructional review.
- **Expectation:** Provide an analysis, reasoning for the decision, and recommended best practices for staying safe.

## Key Takeaways for Students and Instructors:

- **Instructor Gain:** Experience designing AI-enhanced security assessments, leveraging the RACE structure for clarity and skill validation.
- **Student Gain:** Build practical cybersecurity awareness, critical reasoning, and procedural safety skills with adaptive GenAI tools.

# Innovative Assessment Practices Using the RACEF Framework

- **Role:** You are an instructor guiding trainees in analyzing cyber threats and digital safety protocols with GenAI support.
- **Action:** Input a simulated phishing email into ChatGPT, assess its credibility, and outline countermeasures and staff training needs.
- **Context:** Training involves authentic workplace cyber risks, with emphasis on procedural thinking and risk communication.
- **Example:** You receive an email from '[admin@company-updates.com](mailto:admin@company-updates.com)' requesting your login details. Use AI to analyze risk indicators, explain if it is phishing, and list best practices for reporting and prevention.
- **Format:** AI returns the analysis in a bullet-point risk checklist, then provides a recommended response script and prevention tips in paragraph form.
- **Follow-up:** Assign trainees to produce their own phishing simulations, critique AI responses, and lead brief risk awareness presentations.

# Innovative Assessment Practices Using the RACEF Framework (cont.)

## Key Takeaways for Students and Instructors:

### *Instructor Gain:*

- Masters authentic, scenario-based assessment with instant formative feedback.
- Develops strategies for using AI to enhance security protocols and risk communication training.
- Builds capacity for digital badging and performance-based digital literacy demonstration.

### *Student Gain:*

- Practices identifying and analyzing security threats in hands-on, realistic situations.
- Receives actionable feedback on risk detection and response.
- Prepares for workplace digital safety challenges with confidence and procedural fluency.

# Innovative Assessment Practices Using the TRACI Framework

- **Task:** Present a logistics scenario for AI-based delivery optimization and facilitate group analysis and improvement.
- **Role:** You are a workforce educator teaching collaborative problem-solving with technology.
- **Audience:** Adult learners or employees engaged in logistics/process improvement.
- **Context:** Business simulation where participant teams must implement, critique, and improve on AI solutions.
- **Intent:** To embed risk assessment, best practice communication, and policy compliance into digital safety training using GenAI.
- **Instruction:** Guide group review of the AI's proposal, highlight limitations, and support synthesis of more robust solutions considering human and situational context.

# Activity 3 – Select and Share: Your Top GenAI Priority



In The Chat

## In the chat, respond to the following:

- Of the four key practical applications of Gen AI in Adult Education and Workforce Programs, are you most interested in exploring further?
  - Enter your response in the chat and provide a rationale for your answer.
- AI Integration Across The Curriculum
  - Developing AI Literacy and Awareness
  - Fostering Critical Thinking and Deep Learning
  - Innovative Assessment Practices



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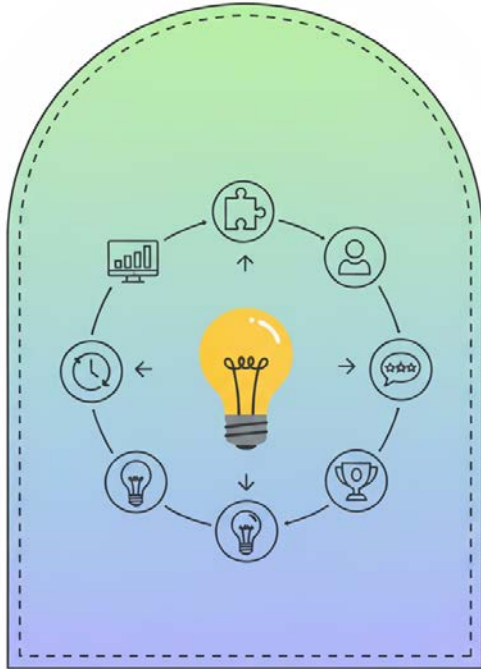


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# 05

## Revolutionizing Assessment Design Approaches

Exploring Opportunities, Challenges, and Transformations in Modern Learning

# Revolutionizing Assessment Design Approaches

Consider these priorities when updating assessment strategies:

- **Foundational skills:** Hands-on, interactive learning without technology is best for core academic and practical skills.
- **Personalized learning:** Use AI for feedback and differentiated instruction, adapting to diverse learners and subjects.
- **Skill priorities:** Identify essential foundational skills for workforce and adult education that should be taught without technology.
- **Action step:** Regularly review curricula to balance tech-based and hands-on assessment effective, inclusive learning outcomes.



Skill Priorities

Illustration created using Gemini AI

# Revolutionizing Assessment Design Approaches (cont.)

- **AI-supported skills:** Use artificial intelligence tools to enhance workplace scenarios and support adult learning assessments.
- **Balance skills:** Blend traditional foundational skills with new digital, AI-related skills to address the needs of integrated education and a diverse workforce.
- **Responsive practices:** Adjust assessment approaches to keep pace with AI advancements and address varied educational and workplace contexts.



Personalized  
AI Learning



AI-supported skills

Illustration created using Gemini AI

# Essential Steps for Powerful Assessment Review

To optimize the assessment review process with AI, consider the following key strategies:

- **Match tools to learners:** Choose AI technologies that address the unique needs of diverse groups, from K-12 students to adult learners in workforce training.
- **Tap top AI platforms:** Use models like ChatGPT, Claude 3.5 Sonnet, or similar for text analysis, writing support, and realistic role-play to enhance learning for all ages.
- **Fuel creativity with visuals:** Integrate image-generating tools such as Midjourney, Firefly, or DALL-E to enrich project-based and simulation activities in both academic and career-focused programs.
- **Strengthen STEM learning:** Employ “Code Interpreter” or similar features to solve mathematical and scientific challenges, especially in technical and upskilling contexts.
- **Prioritize accessibility:** Offer both free and premium AI options to ensure every learner, regardless of background or technology access, can participate fully.
- **Continuously improve:** Regularly evaluate and refine assessment strategies so they keep pace with evolving AI capabilities and are always aligned to learning objectives in every setting.

# Empowering Learners: Bridging Foundational Skills and AI Readiness

To prepare learners for a technology-rich future, blend foundational and AI-enhanced skills throughout your curriculum and assessments:

- **Identify essential skills:** Focus on abilities that require human judgment, creativity, and interpersonal understanding, skills AI cannot fully replicate or replace.
- **Integrate AI intentionally:** Use AI in curriculum and assessment processes to enrich learning, support differentiation, and provide authentic, real-world experiences for everyone.
- **Design innovative assessments:** Incorporate AI features like instant feedback and data analysis, while also testing learners' ability to apply knowledge in novel, tech-driven environments.
- **Empower learners:** Build the confidence and adaptability needed to help students and adults thrive in careers where digital tools and AI are integral to problem-solving and workplace success.

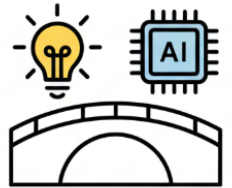


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# Continuous Assessment Evolution

To ensure assessment strategies remain effective, inclusive, and secure in the age of AI, focus on these ongoing priorities:

- **Review for fairness and security:** Continuously assess AI capabilities and address vulnerabilities to maintain high standards and meet evolving learner needs.
- **Invest in educator growth:** Provide ongoing professional development in AI integration, innovative assessment methods, and ethical technology practices.
- **Promote collaboration:** Foster strong networks across disciplines and career pathways to share best practices and respond to emerging challenges together.
- **Embrace innovation:** Stay ahead by evaluating new AI technologies and refining assessment approaches to maximize success for every learner.

# Activity 4 - Quick Assessment Poll & Chat Discussion

Specify which aspect of continuous assessment evolution you consider most critical for your teaching, training, or educational setting.

## **Poll Question:**

Which aspect of continuous assessment evolution do you see as most critical for your current teaching or training context?

- Ongoing review for fairness and security
- Professional development in AI and innovation
- Collaboration across disciplines
- Proactive adaptation to new technologies



## **Chat Discussion Prompt:**

After voting, share in the chat a specific challenge or success you've experienced with adapting assessments in response to AI or new technologies. What strategy or resource has helped you most?

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## 06

# The AI Assessment Scale

Source: leonfurze.com

# The AI Assessment Scale (AIAS)



## THE AI ASSESSMENT SCALE

A TOOL FOR GENAI ASSESSMENT

Source: [leonfurze.com](https://leonfurze.com)

# The AI Assessment Scale (cont.)

<b>1</b>	<b>NO AI</b>	<p>The assessment is completed entirely without AI assistance. This level ensures that students rely solely on their knowledge, understanding, and skills.</p> <p style="text-align: center;"><b>AI must not be used at any point during the assessment.</b></p>
<b>2</b>	<b>AI-ASSISTED IDEA GENERATION AND STRUCTURING</b>	<p>AI can be used in the assessment for brainstorming, creating structures, and generating ideas for improving work.</p> <p style="text-align: center;"><b>No AI content is allowed in the final submission.</b></p>
<b>3</b>	<b>AI-ASSISTED EDITING</b>	<p>AI can be used to make improvements to the clarity or quality of student created work to improve the final output, but no new content can be created using AI.</p> <p style="text-align: center;"><b>AI can be used, but your original work with no AI content must be provided in an appendix.</b></p>
<b>4</b>	<b>AI TASK COMPLETION, HUMAN EVALUATION</b>	<p>AI is used to complete certain elements of the task, with students providing discussion or commentary on the AI-generated content. This level requires critical engagement with AI generated content and evaluating its output.</p> <p style="text-align: center;"><b>You will use AI to complete specified tasks in your assessment. Any AI created content must be cited.</b></p>
<b>5</b>	<b>FULL AI</b>	<p>AI should be used as a 'co-pilot' in order to meet the requirements of the assessment, allowing for a collaborative approach with AI and enhancing creativity.</p> <p style="text-align: center;"><b>You may use AI throughout your assessment to support your own work and do not have to specify which content is AI generated.</b></p>

Source: leonfurze.com

# The AI Assessment Scale (cont.)

<b>1</b>	<b>NO AI</b>	<p>The assessment is completed entirely without AI assistance in a controlled environment, ensuring that students rely solely on their existing knowledge, understanding, and skills</p> <p><b>You must not use AI at any point during the assessment. You must demonstrate your core skills and knowledge.</b></p>
<b>2</b>	<b>AI PLANNING</b>	<p>AI may be used for pre-task activities such as brainstorming, outlining and initial research. This level focuses on the effective use of AI for planning, synthesis, and ideation, but assessments should emphasise the ability to develop and refine these ideas independently.</p> <p><b>You may use AI for planning, idea development, and research. Your final submission should show how you have developed and refined these ideas.</b></p>
<b>3</b>	<b>AI COLLABORATION</b>	<p>AI may be used to help complete the task, including idea generation, drafting, feedback, and refinement. Students should critically evaluate and modify the AI suggested outputs, demonstrating their understanding.</p> <p><b>You may use AI to assist with specific tasks such as drafting text, refining and evaluating your work. You must critically evaluate and modify any AI-generated content you use.</b></p>
<b>4</b>	<b>FULL AI</b>	<p>AI may be used to complete any elements of the task, with students directing AI to achieve the assessment goals. Assessments at this level may also require engagement with AI to achieve goals and solve problems.</p> <p><b>You may use AI extensively throughout your work either as you wish, or as specifically directed in your assessment. Focus on directing AI to achieve your goals while demonstrating your critical thinking.</b></p>
<b>5</b>	<b>AI EXPLORATION</b>	<p>AI is used creatively to enhance problem-solving, generate novel insights, or develop innovative solutions to solve problems. Students and educators co-design assessments to explore unique AI applications within the field of study.</p> <p><b>You should use AI creatively to solve the task, potentially co-designing new approaches with your instructor.</b></p>

# Activity 5 – Poll: AI Assessment Scale Familiarity Check

## Instructions:

Access the poll in the chat to answer the question below:

## Question:

Which best describes your familiarity with the AI Assessment Scale?

- I've never heard of it.
- I've heard of it, but haven't used it.
- I've used it once or twice.
- I use it regularly.



Illustration created using Gemini AI



# 07

## Innovating Feedback for Student Growth

Transforming Student Learning Through Modern Feedback

# Innovating Feedback for Student Growth

Providing powerful feedback in today's classrooms means combining the best of human expertise with smart, transparent use of AI. The AI Assessment Scale helps educators decide where, when, and how AI or human guidance should drive student reflection and growth.

- **Clarify expectations:** Share the AI Assessment Scale with students to help them understand when feedback will come from instructors, AI tools, or a mix of both—and why.
- **Enhance formative feedback:** Use AI at appropriate levels (such as AI Planning or AI Collaboration) to generate rapid, strengths-based comments on drafts, giving students actionable next steps.
- **Humanize high-stakes feedback:** Rely on direct teacher insight for assessments that require core skills, critical thinking, and professionalism, ensuring AI output is always curated, not just accepted.
- **Promote self and peer review:** Encourage students to use AI suggestions as one source of feedback among many, fostering metacognition and responsible learning habits.

# Activity 6 - AIAS Assessment Match

Engage with everyone and the AI Assessment Scale in a live, collaborative online setting, even if you don't have an assessment prepared.

## Instructions:

- Click the link in the chat to open our shared Miro board.
- On the board, you'll see a set of assessment type cards.
- Five columns represent the AI Assessment Scale levels: No AI, AI Planning, AI Collaboration, Full AI, and AI Exploration.
- Drag each assessment card into the column that matches the level you think is most appropriate.
- Next to each card you move, add a sticky note with a brief reason or suggestion for how feedback (from AI or a teacher) could best support growth at that level.
- Reflect and Wrap-Up:
  - What did you notice through this activity?
  - How might your approach to feedback evolve after today's session?

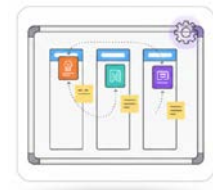


Illustration created using Gemini AI

# Activity 7 – Wrap-up/Exit Ticket

- We value your feedback!
- As an assessment and application of learning, please complete this survey



# Resources

- Teaching with AI – Design Strategies for Assessing Learning  
[cat.fiu.edu/resources/teaching-with-ai/design-strategies-for-assessing-learning-with-ai/](https://cat.fiu.edu/resources/teaching-with-ai/design-strategies-for-assessing-learning-with-ai/)
- Leveraging AI in Assignments – UVA Teaching Hub  
[teaching.virginia.edu/collections/leveraging-ai-in-assignments](https://teaching.virginia.edu/collections/leveraging-ai-in-assignments)
- AI-Powered Education: Authentic Assessments and Learning – ASCCC  
[asccc.org/content/ai-powered-education-authentic-assessments-and-learning](https://asccc.org/content/ai-powered-education-authentic-assessments-and-learning)
- Assessment Design using Generative AI – UBC  
[ai.ctlt.ubc.ca/assessment-design-using-generative-ai/](https://ai.ctlt.ubc.ca/assessment-design-using-generative-ai/)
- 15 AI Tools for Educators You Need to Know – ASU Prep Global  
[www.asuprepglobal.org/news/ai-tools-for-educators/](https://www.asuprepglobal.org/news/ai-tools-for-educators/)



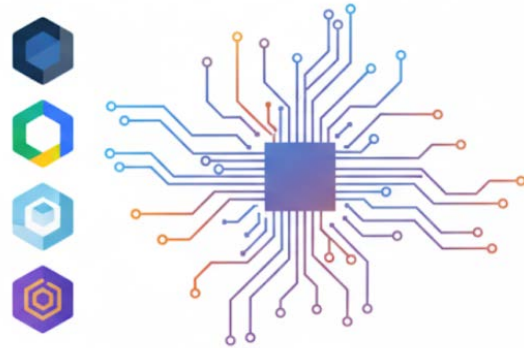
# Resources (cont.)

- The Artificial Intelligence Assessment Scale (AIAS): A Framework for Ethical Integration [open-publishing.org/journals/index.php/jutlp/article/view/810](https://open-publishing.org/journals/index.php/jutlp/article/view/810)
- AI in Assessment: Top 10 Tools Worth Exploring (2024) – EssayGrader [essaygrader.ai/blog/ai-in-assessment](https://essaygrader.ai/blog/ai-in-assessment)
- Eduaide.Ai: AI Created for Teachers [eduaide.ai](https://eduaide.ai)
- 50 AI Tools for Teachers, Educators and Classroom (Free and Paid) – Ditch That Textbook [ditchthattextbook.com/ai-tools/](https://ditchthattextbook.com/ai-tools/)
- 10. Utilizing Artificial Intelligence for Assessment in Higher Education – Pedagogical Research [pedagogicalresearch.com/article/utilizing-artificial-intelligence-for-assessment-in-higher-education-16677](https://pedagogicalresearch.com/article/utilizing-artificial-intelligence-for-assessment-in-higher-education-16677)



# Acknowledgements

- Perplexity AI  
[www.perplexity.ai](http://www.perplexity.ai)
- Gemini (Google)  
[gemini.google.com/](http://gemini.google.com/)
- ChatGPT (OpenAI)  
[chat.openai.com/](http://chat.openai.com/)
- Midjourney  
[www.midjourney.com/](http://www.midjourney.com/)



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# Thank you!

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**AI will radically improve both student outcomes and teacher experiences and help usher in a future where everyone has access to a world-class education.**

**- Bill Gates**