Learning Experience: Generating AI Content

SECTION 0: Learning Experience Overview

Learning Experience Information

Learning Experience Title: Creating Synthetic Content
Program of Instruction (POI): Countering Malign Influence / Version 1.0
Developer Point of Contact: first.last@email.tld

IMPORTANT

- **Training Material Classification**: UNCLASSIFIED
- **Distribution Restriction**: Approved for public release; distribution is unlimited.
- **Destruction Notice**: N/A for the Learning Experience
- **Foreign Disclosure**: FD1 - This training product has been reviewed in coordination with the <INSERT_ORG> foreign disclosure officer. This training product can be used to instruct international military participants in all approved countries.

SCOPE OF learning experience

This 40-minute learning experience is an introductory orientation to AI-generated content creation. Participants will learn, through a series of activities and scenario-based exercises, the key principles and procedures necessary to generate high-quality, synthetic AI content. The session reinforces accountability, responsibility, and effective communication techniques and uses existing knowledge repositories to identify and select the best AI tools for the task at hand.

Learning Objectives

Terminal Learning Objective (TLO):

> **Action**: Generate AI Content **Condition**: Given access to AI tools and example prompts **Standard**: Successfully create AI-generated content that meets specified quality standards and is relevant to the given prompts

Enabling Learning Objectives (ELO) / Learning Steps:

- **ELO 1**: Select and configure AI tools using effective prompts
- **ELO 2**: Apply best practices in creating, refining, and assessing AI content

References

1. AI Master List Tool - https://doc.clickup.com/25598832/d/h/rd6vg-14247/0b79ca1dc0f7429/rd6vg-12207
2. AI Catalog Repo - https://github.com/mehmetkahya0/ai-catalog

SECTION 1: ADMINISTRATIVE DATA

Instructional Guidance

Conduct of learning experience | **NOTE:** Before presenting this learning experience, instructors must thoroughly prepare by studying this learning experience and identifying reference material. - Watch the tutorial video until it bores you. This is important because, during the Concrete Experience, you should be observing the participants. - Before the learning experience, set up one easel in each corner of the classroom. Place a marker set with each easel, and affix one scenario sheet (face down) to each easel. - Before class, play the video completely through one time. This will reduce computer lag.

1. The importance of this learning experience: (Why)

This learning experience is crucial for understanding the importance of AI content generation, the common themes and flaws of AI content, methods for subverting prompt safeguards, and using AI tools to generate content, categorize and transform content, and to create synthetic content.

2. What we want our participants to Achieve: (Outcomes/Standard)

Participants will be able to find AI enabled tools, create effective prompts, manuver safeguards, generate content, categorize and transform content, and to create synthetic content. ### 3. A Possible Technique to Achieve the Outcome

1. Use iterative prompts to refine the generated content, starting broad and narrowing down specifics.
2. Use the provided handout to help participants create effective prompts.
3. Use the referenced material to find AI enabled tools.

4. AAR Guidance for this learning experience

1. Conduct an After Action Review (AAR) to discuss what went well and what could be improved.

learning experience Requirements

Instructor Requirements An instructor must: 1. Review previous AARs for this learning experience. 2. Review the entire lesson plan for this learning experience.

3. Review the referenced material. 4. Read and understand the handout. 5. Be able to obtain, access, and be familiar with the required material and equipment.

An instructor must attend the following training:

1. Countering Malign Influence Workshop

An instructor should:

1. Have received this learning experience as a participant
2. Participated in this instruction as an assistant instructor for this learning experience
3. Participated in the AAR for this learning experience

Additional Support

Required or Requested Support

- N/A

Guidance for Assistant Instructors

- Assist in setting up and troubleshooting AI tools.
- Monitor participant progress and provide guidance during exercises.

Equipment and Material Required for Instruction

learning experience Material, Ammo, Expendable, etc.

Equipment	participant Ratio	Instructor Ratio	Quantity	Expendable
Computer, Keyboard, Touchpad	1:1	1:2		no
Slides			1	no
Projector			1	no
Terminal app	1:1	1:2		

Pre-Requisite Tasks

1. Create ChatGPT account
2. Create GitHub account (to access this repo and submit issues and comments)

Skills Required

1. Basic Computer Skills
2. Typing Skills
3. Internet Browsing Skills

Supporting Tasks

Tasks Taught

1. Select appropriate AI tools.
2. Configure AI tools.
3. Generate and refine AI content.
4. Bypass AI content safeguards.

Tasks Supported

1. Reviewing and editing AI-generated content.

Tasks Reinforced

1. Applying best practices in AI content generation.

learning experience Timeline

Academic (y/n)	Broad Topic	EST TIME Min	Methods
Instructor	Instructor Rehearsal	5	Rehearsal
Instructor	Classroom Setup	0	Setup
y	Concrete Experience	5	Generating Synthetic Content
y	Publish and Process	4	Discussion
y	Generalize New Information	12	Best Practices for AI Content
y	Develop	6	Applying Best Practices
y	Apply	10	Practical Exercise
y	Assessment / Check On Learning	4	Summary and Feedback

SECTION 2: learning experience INTRODUCTION

Concrete Experience / Motivator (Approximately 5 Minutes)

- **Setup (1 Minute)**
  - Have participants pair up: one person acts as the *User* and the other as the *AI*.
  - Instruct the User to write a short instruction (e.g., "Create a three-sentence summary about the importance of training").
  - The AI partner must follow the instruction exactly as written.

- **Activity (2 Minutes)**
  - The User passes the instruction to the AI partner, who performs the task literally.
  - Emphasize that the AI should stick to the exact wording without interpreting unstated elements.
- **Discussion (2 Minutes)**
  - Ask: "How did the AI's response match your expectations?"
  - Discuss the impact of clear versus vague instructions.
- **Bridge to Next Activity (1 Minute)**
  - Explain that, similar to this exercise, AI tools require explicit and detailed inputs. Transition to the main activity on crafting effective prompts.

Publish and Process

NOTE: Go to Slide 1

Instructional Lead-in: "The learning objectives for this block are to generate AI content effectively using specific tools and best practices."

NOTE: Go to Slide 2

Scope Statement: During this 40-minute learning experience, you will get hands on experience generating and refining AI content using multiple AI tools. You will learn to find and select the best AI tools for the task at hand, generate content, and create templates for future and collaborative content generation.

1. Introduce the learning objectives.
2. Explain the significance of being able to generate and refine AI-generated content.

NOTE: Go to Slide 3

SECTION 3: learning experience PRESENTATION

Learning Step Activity (LSA) 1: Introduction to AI Content Generation

SLIDE 1: Overview & Memorization of Prompting Strategies

Activity Structure and Timing

1. **Present an Overview of AI Content Generation Tools (5 minutes)**
   - **Content & Demonstration**:
     - Introduce a variety of tools that generate AI content (e.g., ChatGPT for text, DALL-E for visuals, Copilot for code).

- Briefly discuss key features, advantages, and limitations of each tool.
- Show real-time examples or screenshots that illustrate tool capabilities.

- **Instructor Tips**:
  - Ask the class if anyone has prior experience with any AI tool.
  - Highlight common applications and potential pitfalls.

2. **Present the Prompting Strategies for Memorization (5 minutes)**
   - **Content & Explanation**:
     - **Write Clear Instructions**: Explain the importance of clarity (e.g., "Analyze [topic] focusing on [data points]…").
     - **Provide Reference Text**: Stress the value of background context with sample templates.
     - **Split Complex Tasks**: Teach how to break a multi-part question into manageable steps.
     - **Give the Model Time to "Think"**: Encourage allowing a pause for deeper processing.
     - **Use External Tools**: Demonstrate integrating AI capabilities with external data sources.
   - **Visuals/Handouts**:
     - Display slides that list each strategy along with prompt templates.
     - Hand out a one-page reference guide summarizing these strategies for later review.
3. **Interactive Memorization Quiz (2 minutes)**
   - **Activity Details**:
     - Divide participants into pairs.
     - Have them quiz each other on the names and functions of each prompting strategy.
     - Encourage the use of mini whiteboards or digital note-taking to jot down key points.
   - **Facilitator Guidance**:
     - Walk around to facilitate discussion and correct any misunderstandings.
     - Optionally, call on a few pairs for a quick oral review with the class.
4. **Collaborative Application Challenge (5 minutes)**
   - **Activity Details**:
     - Organize participants into small groups (3–4 members per group).
     - Assign the following prompts and ask groups to collaboratively apply the prompting strategies:
       - **Prompt 1**: "Create a SITREP for what you did in class today."
       - **Prompt 2**: "Create an Email to your boss about the importance of AI enabled tools for your organization."

        * **Prompt 3**: "Create advanced search queries to find the latest Fishing Companies in the Pacific."
    - **Group Work Process**:
        * Have groups discuss and write down effective prompts that incorporate strategies like clarity, use of reference texts, and step-by-step breakdown.
        * Encourage each group to assign roles (e.g., one person records, while others propose improvements).
- **Post-Activity Discussion**:
    - Encourage a representative from each group to share one refined prompt and explain the strategy used.
- **Transition Note**:
    - After the exercise, instruct participants: *"NOTE: Go to Slide 2"* for the next section of the lesson.

Learning Step Activity (LSA) 2: Detailed Analysis of AI Content Generation Components

SLIDE 2: Text Generation

- **Key Focus**: Identify and discuss best practices for generating text.
- **Activity**:
    - Present examples of both good and poor prompts for text generation.
    - Demonstrate content generation in real time using an AI tool.
    - Discuss why a clear structure and context improve the quality of the output.

SLIDE 3: Visual Content Generation

- **Key Focus**: Best practices for generating visual content.
- **Activity**:
    - Showcase examples with visual prompts.
    - Explain how specificity in instructions influences the produced imagery.
    - Discuss image-generation constraints and troubleshooting tips.

SLIDE 4: Code Generation

- **Key Focus**: Best practices for generating code.
- **Activity**:
    - Present examples of effective code prompts versus ambiguous code prompts.
    - Walk through a live demonstration of generating simple scripts.
    - Highlight ways to refine code output through iterative prompt adjustments.

Learning Step Activity (LSA) 3: Practical Application of AI Content Generation Techniques

SLIDE 5: Practical Exercise

- **Activity**:
  1. **Group Work and Creation (10 minutes)**:
     - Divide participants into groups.
     - Provide each group with various prompts covering text, visuals, and code.
     - Allow groups to interact with their chosen AI tools to craft content.
  2. **Presentation and Feedback (10 minutes)**:
     - Each group presents their generated content to the class.
     - Facilitate a feedback discussion focusing on:
       * How well the prompts incorporated the best practices.
       * What improvements could enhance the final output.
  3. **Instructor Review**:
     - Summarize key observations and highlight common successes or challenges encountered among groups.

SECTION 4: SUMMARY

- **Review Key Takeaways**:
  - The importance and characteristics of effective AI content generation.
  - How to craft clear, comprehensive prompts by using memorized strategies.
  - The practical differences in generating text, visual, and code outputs.
- **Check on Learning**:
  - Ask: "What are the best practices for generating AI content, and how can they be applied in different contexts?"
  - Encourage a short discussion or reflective writing exercise to consolidate learning.

MOI: Discussion (small or large group)

Check on learning: (Terminal Learning Objective (TLO) Check on learning)

Question: What are the best practices for generating AI content?

Answer: The best practices include being specific, iterating and refining, providing context, using multiple services, reminding AI of constraints, and creating templates.

Review/Summary: During this learning experience, we learned how to generate AI content effectively using various tools and best practices.

SECTION 5: participant EVALUATION

Testing Requirement

NOTE: Describe how the participant must demonstrate accomplishment of the TLO. Refer the class to the Individual participant Assessment Plan.

The participant must demonstrate the ability to generate AI content that meets specified quality standards and is relevant to the given prompts.

participant Feedback Requirement

NOTE: Feedback is essential to effective learning. Schedule and provide feedback on the evaluation and any information to help answer class questions about the test. Provide remedial training as needed.

APPENDIX A - Audio Visual Masters

Required Audio-Visual Material and Handouts

Sequence	Media Name	Attachment/URL	Media Type
1	Master Slide Deck	(Provided)	PPTX
2	Slide Deck	(Provided)	PPTX
3	Handout - Prompt Strategies	(Provided)	PDF
4	Handout - Topic 2	(Provided)	PDF
5	Video File - Topic 3	(Provided)	MP4

APPENDIX B - Assessment Statement and Assessment Plan

Assessment Statement:

The TLO will be evaluated by verifying that the participant's generated AI content is accurate, relevant, and of high quality.

Assessment Plan:

Detailed assessment will involve using performance checklists during practical exercises as well as individual evaluations based on a participant's ability to apply prompting and refinement strategies.

APPENDIX C - Practical Exercises and Solutions

The learning experience includes practical exercises where participants create AI-generated content based on given prompts. The exercises are designed to reinforce the learning experience's objectives and provide hands-on experience with AI tools.