May 2024 eLearning Challenge: MRI Safety Training

ℹ️ The Situation

Milton Imaging is opening a third facility in August 2024 to serve patients seeking specialty diagnostic services. Milton Imaging has grown rapidly over the past five years, so the majority of the staff at this location (doctors, nurses, technicians, and office support) will be new hires.

Administrators anticipate MRI (magnetic resonance imaging) will be one of the most utilized diagnostic services at the imaging center. MRIs are ordered by healthcare providers when patients need internal imaging. MRI technology utilizes a large magnet and radio waves to scan the body within a magnetic field and generate images of structures such as organs and bones.

Milton Imaging will deploy a state-of-the-art MRI machine housed within a separate suite in the clinic using a Zone I-IV safety system.

✅ The Challenge

MRI is an essential healthcare technology relied upon by providers to treat and diagnose serious medical conditions. Exposure to MRI equipment is not without risks to both patients and clinic staff because the magnet is always on. In particular, the magnet is extremely sensitive to metal inside the body and in the MRI testing room. Metal objects in Zone IV present potentially deadly hazards to the patient and anyone else in the environment due to the magnet's strength, effectively pulling metal towards the machine at high velocity.

Clinic leadership has reached out to Milton Imaging's L&D team to design an eLearning for staff at the new clinic in preparation for opening. Staff will need to know the proper protocol for preparing and screening patients for MRI testing as well as the hazards of exposure. Milton administrators expect zero incidents/accidents in the MRI suite to ensure the safety of all employees and patients.

To ensure a safe MRI testing environment at Milton Imaging, after completing your course, learners should be able to complete one or more of the following

objectives:

- Explain the essential hazards of MRI exposure to the human body when metal is present.
- Identify common items patients may bring into/wear to testing.
- Distinguish the safety risks present within each zone (Zone I-IV) of the MRI suite within Milton Imaging.
- Practice asking patients questions about metal on or in their persons (clothing, health, and beauty aids, medical devices, or other personal items).
- Draw attention to Zone I-IV safety protocols using visuals and/or warnings to elicit behavior change in patients and staff.

📋 Requirements & Constraints

As you design and develop your course, keep the following requirements and constraints in mind:

Interactivity & Content Presentation: Ideally, your solution will include decision-based interactions or scenarios to reinforce the skills being taught. Here are some ideas for how you might present your content and make it interactive:

- A map of Zone I-IV with pulsing markers explaining how the zones function and what risks exist within each zone.
- A diagram of the human body with hotspots or click-to-reveal interactions displaying some common medical devices and their locations (pacemaker, insulin pump, metal clamps, etc.).
- A tabs interaction with various types of metal found in clothing, health and beauty aids, and accessories.
- A Zone IV room (with MRI machine) containing items that must be investigated via hotspot to be flagged as hazardous (fire extinguisher, bobby pin, pen, etc.).
- A dialogue sequence between a clinic employee (such as an MRI technician) and a patient as they prepare for their imaging.
- A decision-based scenario for Milton employees who usually do not work in the MRI suite. Each decision takes them closer to danger or rewards them

for safe choices.

- A branching scenario with a clinic employee and patient going through prescreening preparation. The outcomes will change based on the safety decisions and protocols followed (or not followed) by the employee and whether the patient understands the safety requirements.

Authoring Tools: You are free to use any eLearning authoring tool you'd like; however, Articulate Storyline or Rise are recommended. If you're new to Articulate Storyline, check out this playlist of videos to help you get started.

Visual Design: You are free to design the course in any way you'd like; however, it should demonstrate good visual design best practices with a cohesive and consistent use of font, colors, images, and graphics. If you're new to visual design, check out this playlist of videos to help you get started.

🎨 Style Guide

To help in the design of your eLearning course, you can view and download the Milton Imaging style guide and brand assets below. You are free to use these to design a branded course template, or you can create your own design.

📠 Reference Materials

As you design and develop your course, you can create your own content from scratch or source your content from the following references:

- MRI Safety
- Benefits & Risks of MRIs
- Improving MRI Safety for Patients & Staff
- MRI Zones: A Guide for Rad Techs
- What is MRI?
- The MRI Zones
- MRI Hazards & Risks

🏆 Submission Guidelines & Contest Rules

Once you're done building your course, you can submit it by commenting below and sharing a link to your finished project. If you're using Articulate Storyline or Rise, you can publish and share a link from Articulate Review or on

the web using Google Cloud. Along with a link to your published course, share a few words explaining your design decisions, challenges, inspiration, etc.

To be eligible to win the $100 Amazon gift card, your submission must be posted no later than Friday, May 31st, at 11:59 PM ET.

You can learn more about the contest rules and criteria here.

If you'd like to get more eyes on your submission and encourage others to participate in the challenges, you might also consider...

- **Writing a Blog Post:** If you happen to have a blog or online portfolio, write a post about your submission and share it on social media. Make sure to link to it in the comments below for others to see!
- **Record a Video:** If you want to share how you went about designing your submission, record and share a screen recording video (via Loom, Camtasia, SnagIt, or YouTube) to showcase and explain your process. And, of course, don't forget to share a link to it in the comments below!
- **Share on Social Media:** If you're active on LinkedIn, Twitter, or another social media platform, create a post to share your submission. If possible, make sure to link back to this page and tag The eLearning Designer's Academy on LinkedIn or Twitter in your post.

💬 Give & Get Feedback

After you've shared your submission, make sure to review what others have submitted and provide constructive feedback. Remember, the monthly challenges (and this community as a whole) are meant to provide an inclusive and supportive environment. As you provide feedback, make sure to keep our Code of Conduct in mind.

As you work to develop your project, also consider sharing your work-in-progress for community feedback in our Get Feedback space here.

🎉 Challenge Recap, Submissions & Winner

Congratulations to this month's eLearning challenge winner, , for her winning submission for this month's challenge: Secure Scan: Ensuring Safety in MRI Examination. 🎉

Check out all of the submissions for this month's eLearning challenge below:

- MRI Safety Revelation by

- MRI Safety Training by
- MRI Screening Training by
- MRI Safety Training by
- MRI Safety Training by
- Milton Imaging by
- MRI Machine Overview by
- MRI Safety Guide by
- Zone In On Safety by
- MRI Safety by
- MRI Safety Training by