



Nuclear Education Online

Moodle Course Recommendations – Review Notes from 3/22/23

Online Format for DOT Highway Primary Landing Page - Recommendations:

1. Welcome Overview
 - a. Main Graphic & Overall Course Description
 - b. Requirements of DOT
 - c. Requirements of Course
2. Guidelines
3. Certificate of Completion Information
 - a. Overview
 - This is on the secondary target audience course pages as well.
4. Getting Started - Choose a Section
 - a. Description of Course Audiences (Select the appropriate category to continue)
 - i. Couriers
 - (Include picture, small description, and link into module)
 - ii. Nuclear Medicine Departments
 - (Include picture, small description, and link into module)
 - iii. Radiopharmacists
 - (Include picture, small description, and link into module)
5. Course Support
 - a. Questions and Contact
 - b. How to Navigate the Course (Maybe only include in target audience sections.)
6. Technology Requirements

Online Format for Target Audience Course Sections - Sidebar Recommendations:

Current Left Sidebar :

- a. Active Course Name
- b. Badges
- c. Competencies
- d. Grades
- e. Home
- f. Dashboard
- g. Calendar
- h. Private Files
- i. My Courses

Right Sidebar :

- a. Brought to you by NEO (Logo)
- b. Course Completion Status
- c. Support
- d. Latest Badges
- e. CE Credit
- f. Copyright

Wireframe of Primary Course Landing Page

Left
Sidebar

1

Welcome to the DOT Training for Highway Shippers and Transporters of Radiopharmaceuticals (2023)

See Content Outline Coming Soon. Includes main graphic and overall course description, DOT and Course Requirements.

2

Getting Started

See Content Outline Coming Soon.

3

Choose a Section

See Content Outline Coming Soon.

Couriers

Nuclear Medicine Departments

Radiopharmacists

4

Certificate of Completion Information

See Content Outline Coming Soon.

5

Course Support

See Content Outline Coming Soon. Includes Questions and Contact, Technology Requirements, How to Navigate the Course

Right
Sidebar

a. Brought to
you by NEO

b. Course
Completion
Status

c. Support

d. Latest Badges

e. CE Credit

f. Copyright

Online Format for Target Audience Course Sections - Recommendations:

1. [Target Audience Title] and Graphic and Back to Home Button Link
2. Getting Started – Important Information
3. [Target Audience] Guidelines
4. Module Overview
 - Currently Named Overview & Module Listing
5. Module Content (Link to actual pop-out content)
6. Final Quiz
 - Allows 3 attempts
 - Passing score is 70% and above
 - Time limit 1 hour
7. Course Evaluation
8. Certificate of Completion
 - Once you receive a certificate it is irreversible and you will not be able to take another section.
 - Complete Final Quiz

Wireframe of Target Audience Course Landing Page

Left
Sidebar

1

Targeted Audience Title and Graphic

Back to Primary Home Link

2

Getting Started – Important Information

See Content Outline Coming Soon.

3

Guidelines

See Content Outline Coming Soon.

4

Learning Modules Overview

See Content Outline Coming Soon.

5

Module Content

Link to actual learning material.

6

Final Quiz

See Content Outline Coming Soon.

7

Course Evaluation

See Content Outline Coming Soon.

8

Certificate of Completion

Right
Sidebar

a. Brought to you
by NEO

b. Course
Completion Status

c. Support

d. Latest Badges

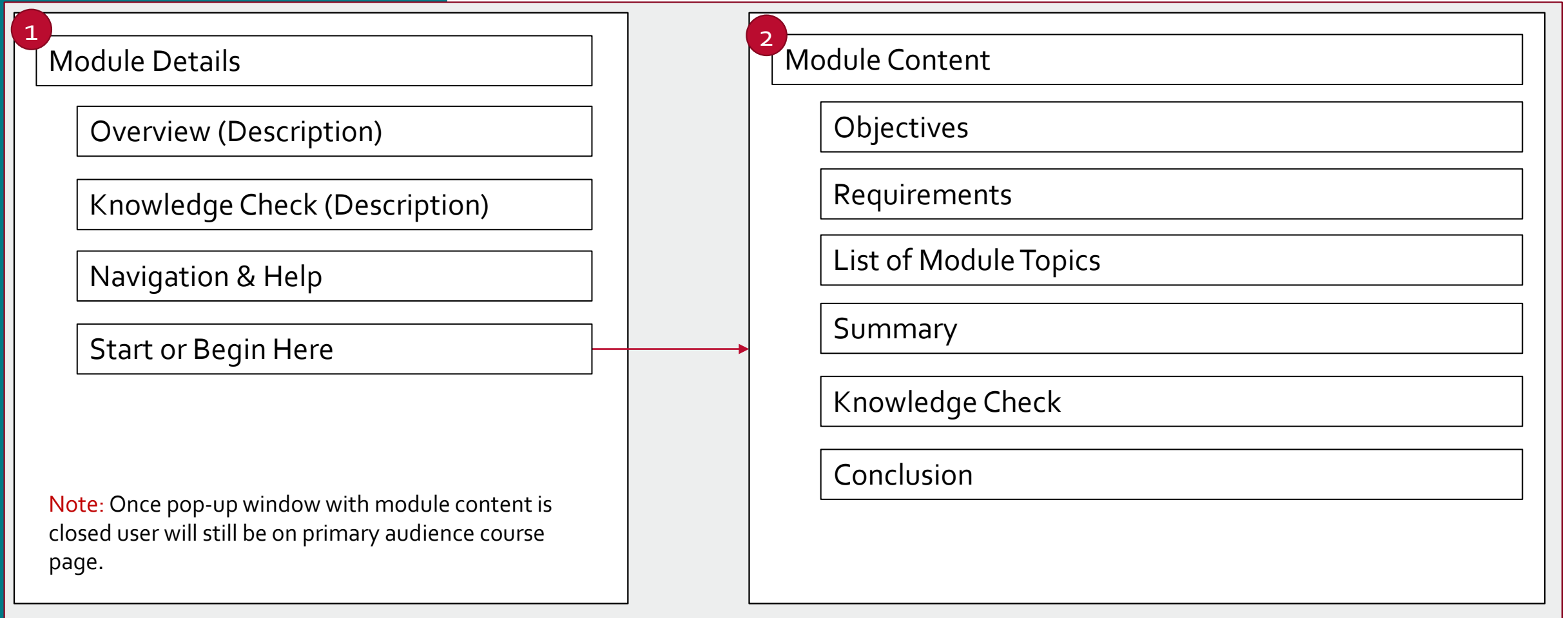
e. CE Credit

f. Copyright

Module Content (Pop-Out) Structure - Recommendations:

1. **Module Details**
Provides information and format of upcoming module content
 - a) **Module Overview**
 - i. Overview (Paragraph description)
 - ii. Knowledge Check (Think this sounds better than Test, since it's ungraded).
 - iii. Navigation & Help
 - iv. ~~Audio (Remove)~~
 - v. Start or Begin Here
2. **Module Content**
 - a) Objectives
 - b) Requirements
 - i. Some have, some don't.
 - ii. It should be consistent on every module.
 - c) List of Module Topics
 - d) Summary
 - i. Sometimes called conclusion in certain module sections.
 - ii. Keep as Summary.
 - e) Knowledge Check
 - i. Rename from Test Your Knowledge.
 - f) Conclusion
 - i. Final End to module content – **different than Summary**
 - ii. Includes next steps to take Final Quiz after module content completion

Pop-Out Module Content Wireframe



Questions/Considerations

1. Would we want to include **supplemental download materials** of module information?
 - Tables, Charts, Graphics, Module Content
 - PDF format
2. Is **SNMMI Member Information** still correct?
 - Need to learn more about SNMMI.
3. I don't see a huge difference between **Conclusion and Summary** at the end of the pop-out module content. We need to be consistent with navigation structure.
 - Propose we use Summary.
4. Do we need supplemental **audio**?
 - This is also harder to maintain if there are updates to module content.
5. Understand what **Voice Credit** is and expand on details for course users.
6. Update **Sidebar Content**
 - Copyright
 - Voice Credit
7. Course Navigation
 - If you have to drill down to a secondary or tertiary page, make sure there is a good way to get back to where you were.

Questions/Considerations (continued)

7. Support Email on Sidebar and Within Course Content

- When opening up in blank email, we can also possibly have the body content populated with course name, your name, and problem details section

8. Define Acronyms throughout course content and throughout instructions, at least first time referenced

- CEU's, NMD, TI, RAM, RSO
- Make sure acronyms are consistent such as, NMD vs. NMT (page content vs. sidebar)

9. Moodle Content Pop-Outs

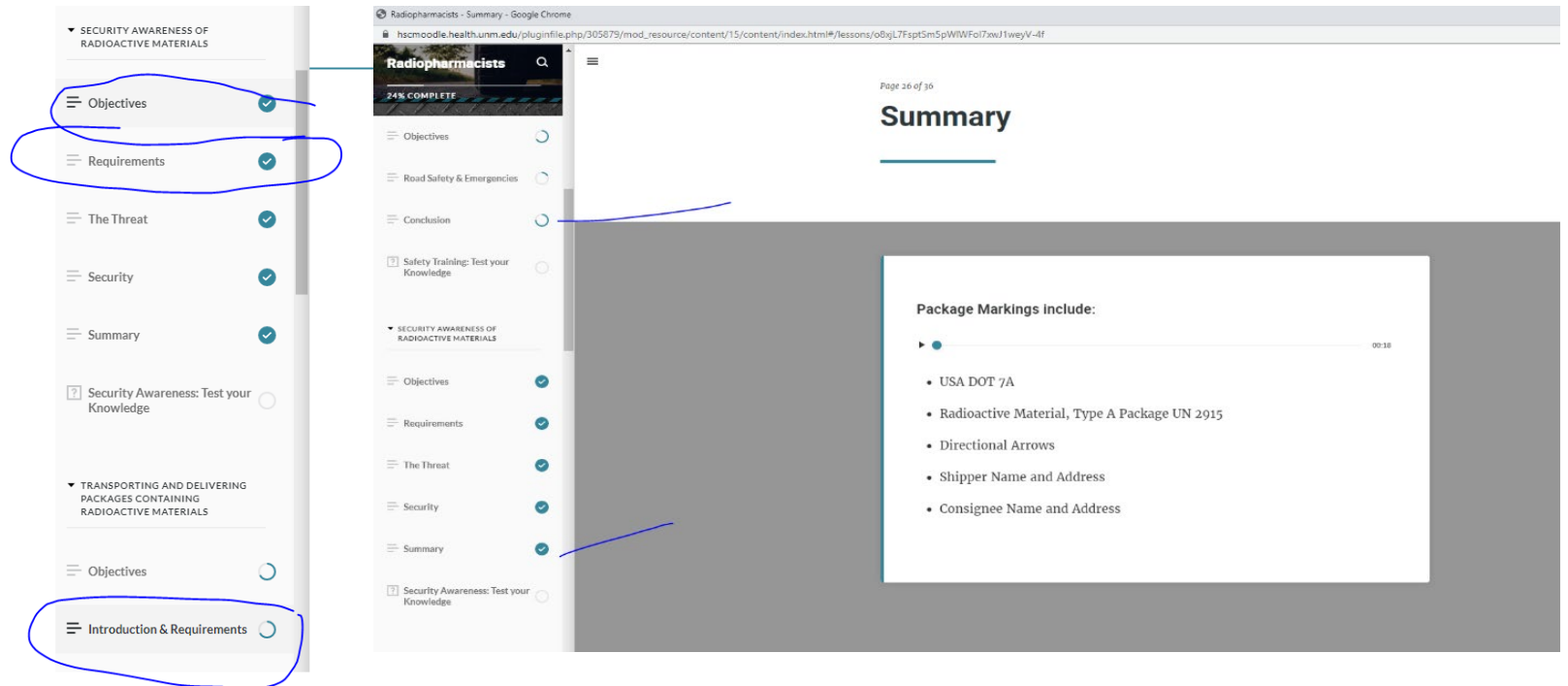
- Make all content pop-out design, navigation, and structure consistent
- Do we want to use Adobe Captivate or Articulate? TBD
- Note: Current modules are crated in Articulate

10. Final Graded Quizzes

- Allow 3 attempts
- Time limit: 1 hour
- Make sure to remove duplicate questions if any.
- Remove test your knowledge and call it "Final Quiz"
- Knowledge checks are ungraded and within learning modules

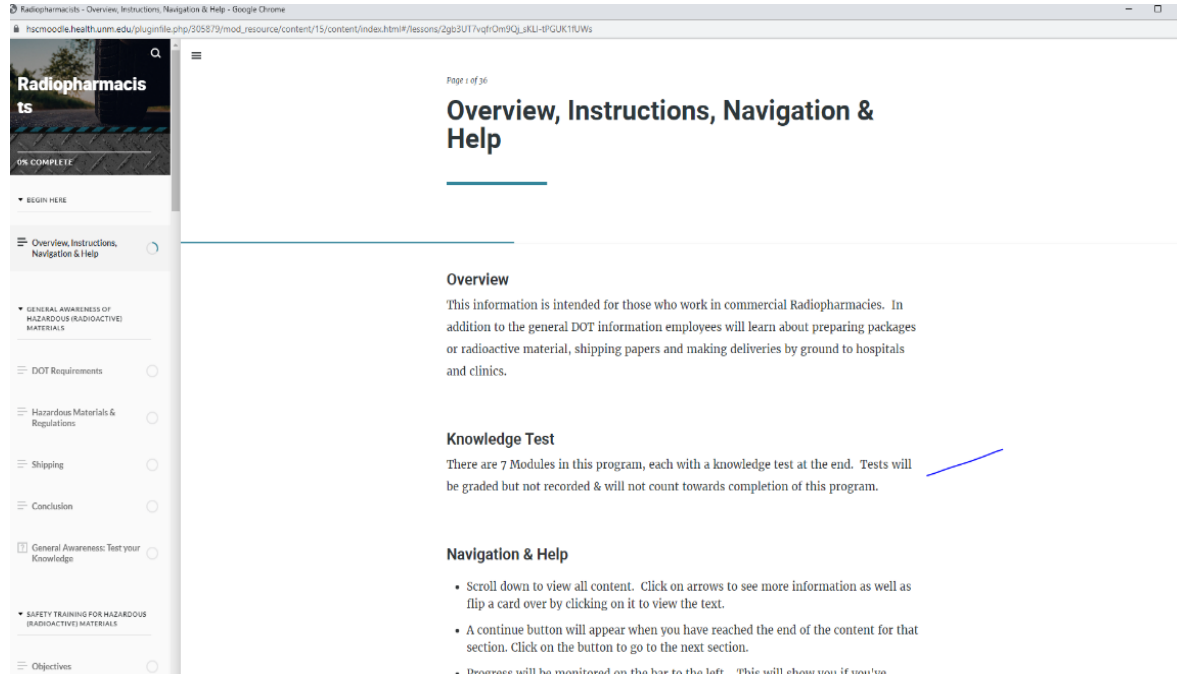
Best Practices to Follow

- Provide **consistent module navigation** format and headings throughout all content sections.



Best Practices to Follow

- Use the Term “**Knowledge Check**” for ungraded quiz sections in module content, instead of “Knowledge Test”.



The screenshot shows a web browser window displaying a course page for "Radiopharmaceuticals". The page title is "Overview, Instructions, Navigation & Help". The left sidebar contains a navigation menu with the following items: "BEGIN HERE", "Overview, Instructions, Navigation & Help", "GENERAL AWARENESS OF HAZARDOUS (RADIOACTIVE) MATERIALS", "DOT Requirements", "Hazardous Materials & Regulations", "Shipping", "Conclusion", "General Awareness: Test your Knowledge", "SAFETY TRAINING FOR HAZARDOUS (RADIOACTIVE) MATERIALS", and "Objectives". The main content area is titled "Overview, Instructions, Navigation & Help" and includes three sections: "Overview", "Knowledge Test", and "Navigation & Help".

Overview
This information is intended for those who work in commercial Radiopharmacies. In addition to the general DOT information employees will learn about preparing packages or radioactive material, shipping papers and making deliveries by ground to hospitals and clinics.

Knowledge Test
There are 7 Modules in this program, each with a knowledge test at the end. Tests will be graded but not recorded & will not count towards completion of this program.

Navigation & Help

- Scroll down to view all content. Click on arrows to see more information as well as flip a card over by clicking on it to view the text.
- A continue button will appear when you have reached the end of the content for that section. Click on the button to go to the next section.
- Progress will be monitored on the bar to the left. This will show you if you've

Best Practices to Follow

- Keep **progress indicators** throughout module content, to inform user where they are and what is complete or incomplete.

Radiopharmacists

20% COMPLETE

SAFETY TRAINING FOR HAZARDOUS (RADIOACTIVE) MATERIALS

- Objectives
- Road Safety & Emergencies
- Conclusion
- Safety Training: Test your Knowledge

SECURITY AWARENESS OF RADIOACTIVE MATERIALS

- Objectives
- Requirements
- The Threat
- Security
- Summary

Be Alert for Suspicious Persons During Deliveries

00:41

Call the hospital security immediately & provide a description of the person if you see a person who is acting suspicious, including:

- Asking questions about what you are delivering
- Going door to door, office to office
- Waiting or loitering in an area or hallway
- Entering a private office un-escorted
- Entering, or trying to enter, a secured area
- Abandoning a suspicious or common package in a public area

1 2 3 4 5

The packages are GONE!!!

Best Practices to Follow

- Moodle Final Quiz navigation on sidebar is helpful.
- Avoid duplicate quiz questions.
- Maintain consistent formatting in quiz content.
- If you get a quiz question wrong, show the right answer hint.
- Create Final Quiz question and answers based on prior knowledge base check content so the quiz draws upon content already studied.
- Provide good directions on starting Final Quiz

The screenshot shows a Moodle course page for "DOT and IATA Training for Air Shippers of Radioactive Material, Type A Packages (2023)". The page includes a sidebar with navigation options like "Home", "Dashboard", "Calendar", "My courses", and "My courses". The main content area displays a quiz question with a "Feedback" section and a "Quiz navigation" sidebar. A blue arrow points from the "Quiz navigation" sidebar to the question content.

Question 31: The DOT label information on the shipping papers must be identical to that on the package. Select one: True False

Question 32: The DOT label information on the shipping papers must be identical to that on the package. Select one: True False

Question 3: Each vehicle used to transport radioactive material must have a copy of... Select one: A. the DOT Emergency Guidelines and Protocols Handbook B. the radiopharmacy Emergency Procedures C. the state motor vehicle code book for hazmat. D. the OSHA Emergency Hazardous Materials Spill Guide.

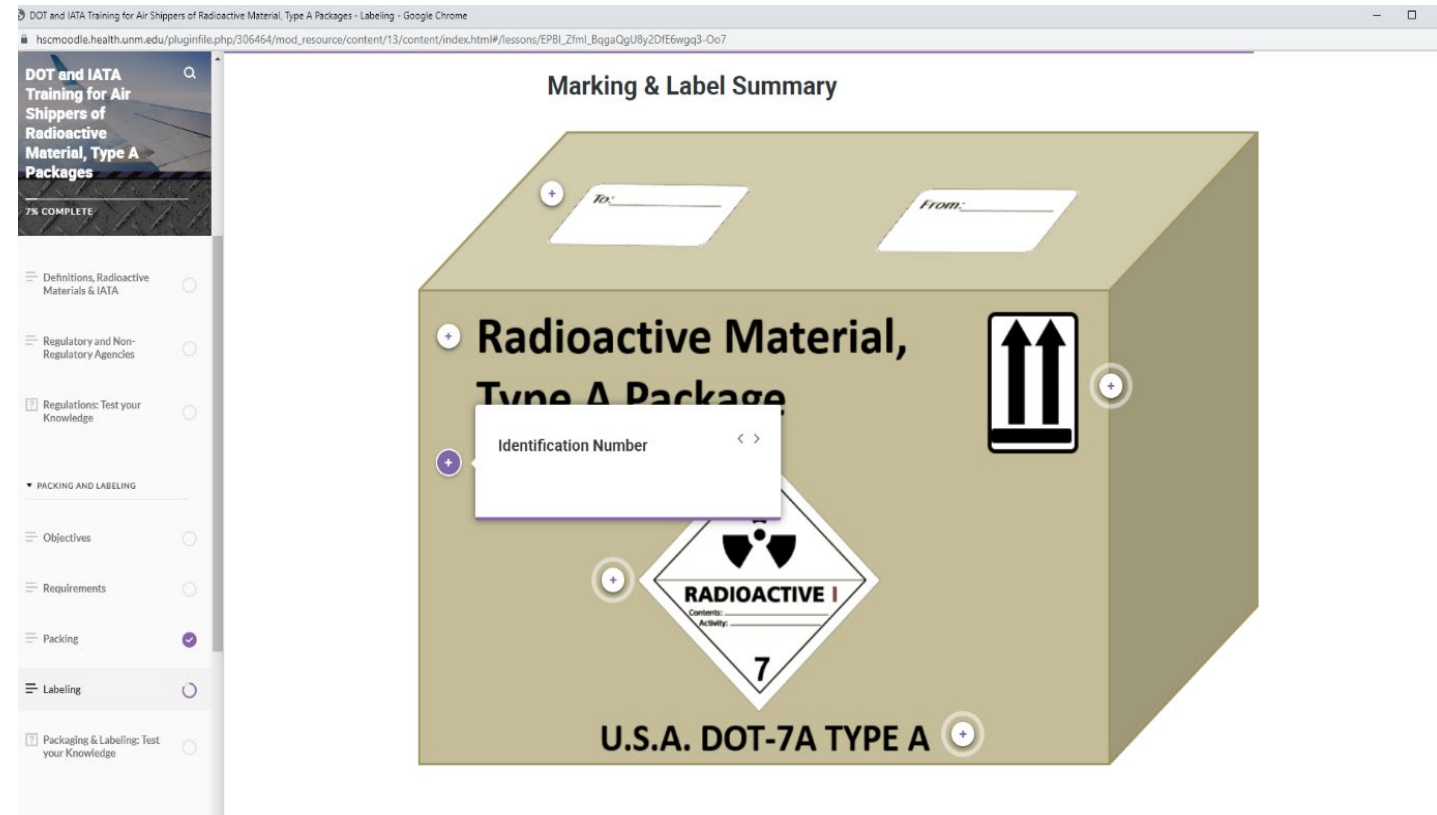
Question 4: You have a large I-131 dose to be returned to the pharmacy. You are not sure how to prepare the... What is your most logical option? Select one: A. Call the radiopharmacy and ask for assistance. B. Mark the case as EMPTY since no one ever opens the case.

Question 13: Who can sign the Shipper's Certificate statement on the Bill of Lading? Select one: A. Anyone trained in radiation safety B. Any delivery courier C. Anyone who works for the organization D. An individual trained in preparing shipping papers.

The screenshot shows a Moodle quiz start attempt dialog box. The dialog box is titled "Start attempt" and contains the text "Timed quiz" and "The quiz has a time limit of 1 hour. Time will count down from the moment you start your attempt and you must submit before it expires. Are you sure that you wish to start now?". There are "Start attempt" and "Cancel" buttons at the bottom of the dialog box.

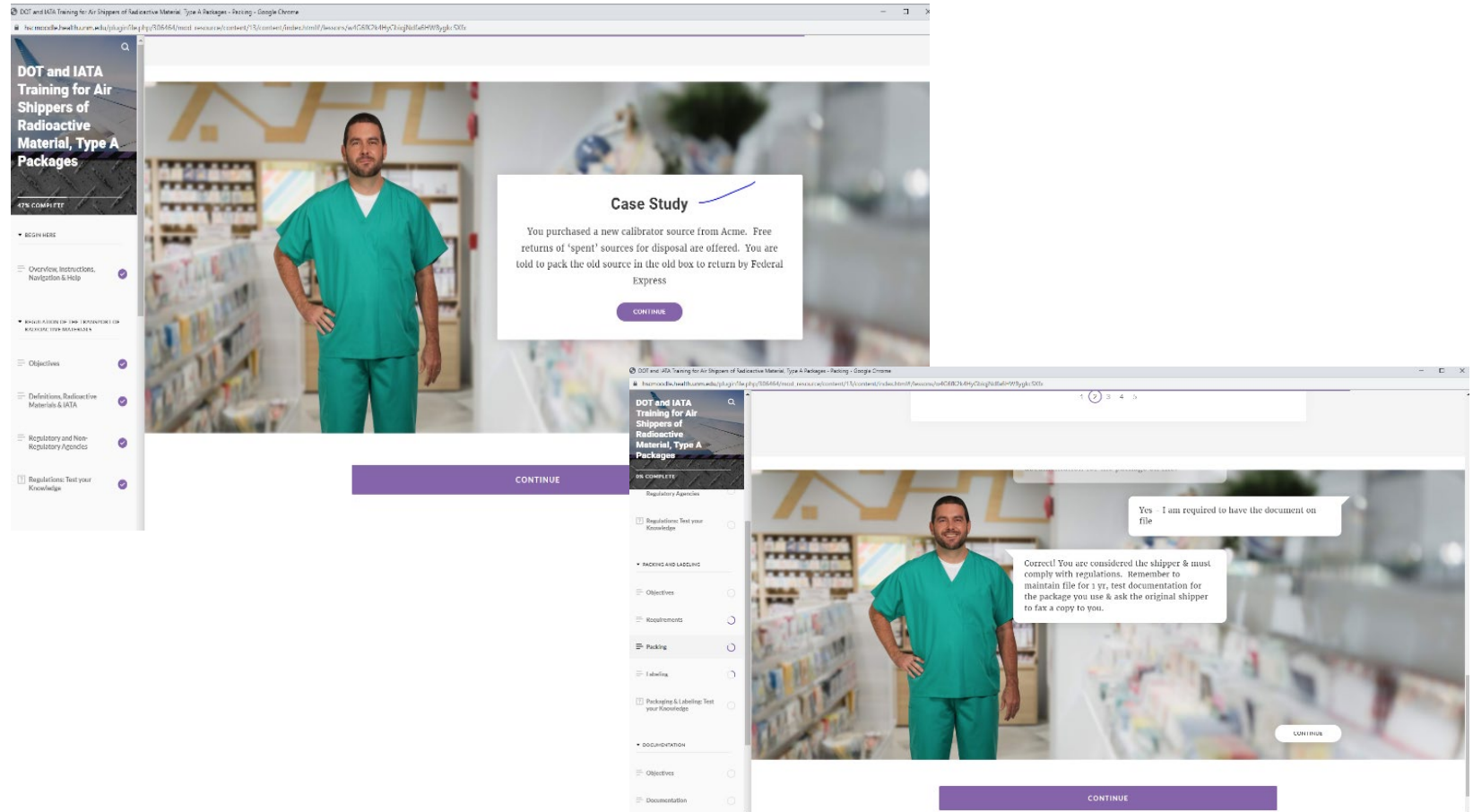
Best Practices to Follow

- **Interactivity** on graphics are a nice feature. Make sure user will see and know how to use the interactivity buttons.



Best Practices to Follow

- **Case Study** interactive element was engaging.



Best Practices to Follow

- Provide **clear instruction** at the very **end of module** content for next steps on taking Final Quiz and completing course training.

DOT and IATA Training for Air Shippers of Radioactive Material, Type A Packages - Summary - Google Chrome

hscmoodle.health.unm.edu/pluginfile.php/306464/mod_resource/content/13/content/index.html#lessons/uy4Hud4nlRpZKL0EBG17wEx8C11wBd0

Page 12 of 12

Summary

Each shipment of Radioactive Material, Type A Package prepared for air transport must be accompanied by a completed Air Waybill and a Shipper's Declaration of Dangerous Goods.

The shipper is responsible for completeness and accuracy of all documentation.

After completing the last Knowledge Test, proceed back to Moodle to take the final exam on the content you just reviewed.

After passing the exam, complete the course evaluation and finally click on the Certificate of Completion to generate your certificate.

To Exit the presentation close the browser window by clicking on the x located at the top right corner of the screen [windows] or the red dot on the right top side of the screen [for apple devices]

CONTINUE

Best Practices to Follow

- **Color coding** of different courses is effective to distinguish target audience types.
 - DOT Highway Training
 - Couriers – E.g. Green
 - Radiopharmacists – E.g. Teal
 - Nuclear Medicine Departments – E.g. Red
 - DOT Air – E.g. Purple

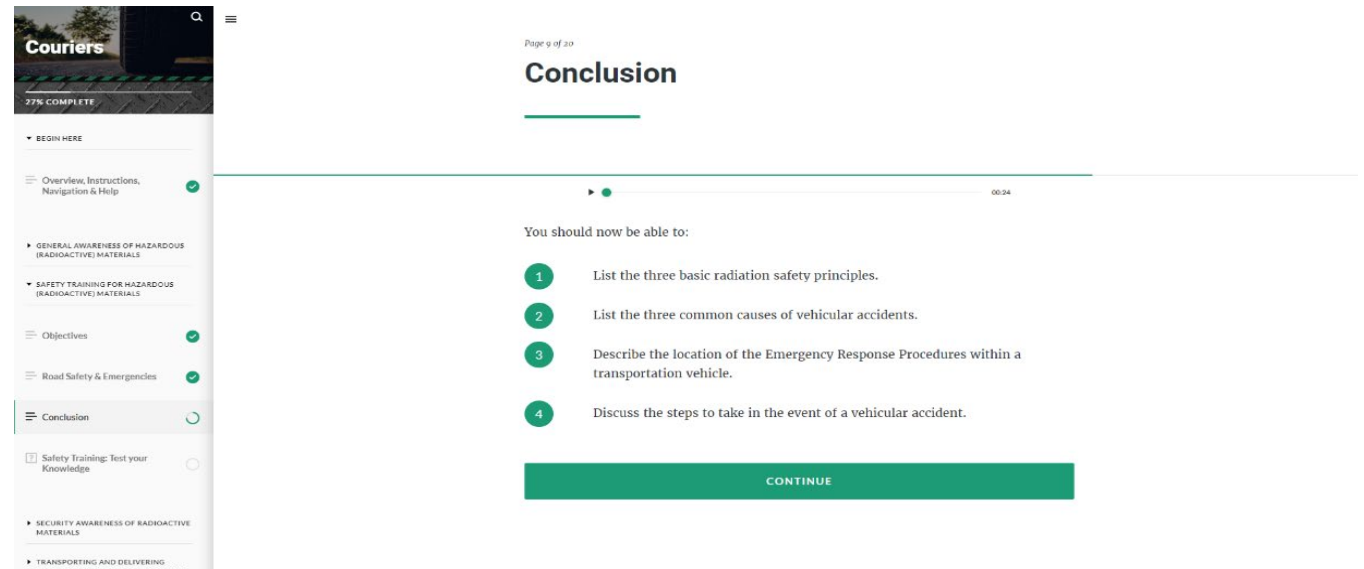
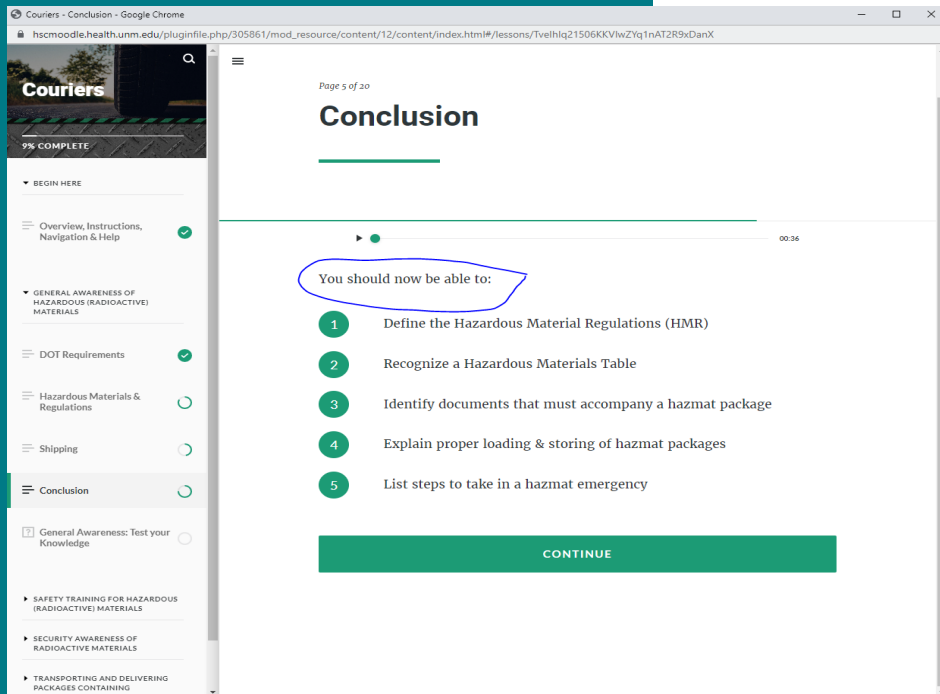
Best Practices to Follow

- **Review language** in content to verify it makes sense with the surrounding context and there are no typos.

The collage consists of several overlapping screenshots from a web-based training module. The top-left screenshot shows a navigation menu with categories like 'Requirements', 'Packing', 'Labelling', and 'Documentation'. The top-middle screenshot shows a question interface with the text: 'Who has the responsibility for assuring that packages of radioactive material and the accompanying documentation are accurate and in compliance with applicable regulations?' and three radio button options: 'Manufacturer of the radioactive material', 'Radiopharmacy used to supply radioactive material', and 'Shipping of the package'. The top-right screenshot shows a section titled 'Regulatory Agencies' with a definition of 'reg-u-la-tion' circled in blue. The bottom-left screenshot shows a question interface with the text: 'When shipping a package labeled as Yellow II, DOT labels must be affixed to all sides of the package.' and two radio button options: 'False' and 'True'. The bottom-right screenshot shows a definition of 'Regulations'.

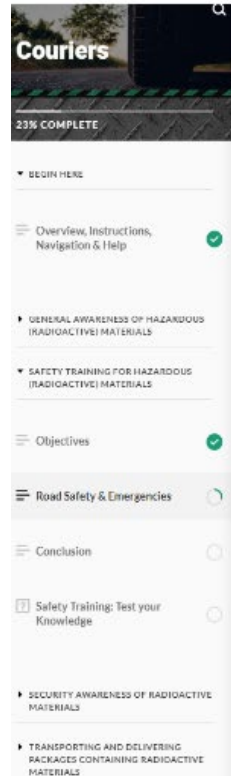
Best Practices to Follow

- On **Summary module sections**, make sure to preface content with: “You should now be able to:” This should refer back to the learning objectives.

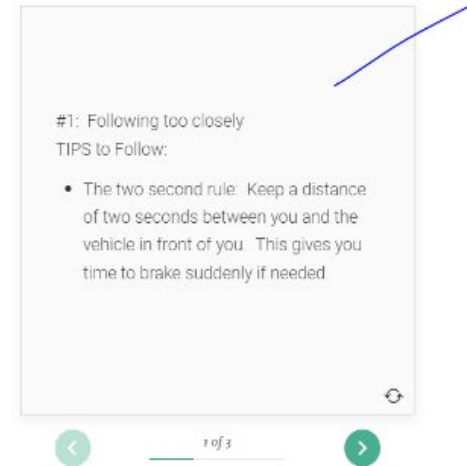


Best Practices to Follow

- If there is an interactive element, make sure to **provide clear instructions** on how to use.



INSTRUCTIONS: Click the flash card to flip the card



00:22

Best Practices to Follow


- **Stay consistent** with colors, formatting, instructions, important call-outs, and notifications. E.g.: This content switches font size, background colors, etc.

console or under the seat.

▶ ● ————— 0025)

In Case of an Emergency

- In the event of an emergency during transportation of radioactive materials,
- Call 911 if anyone is injured and request medical assistance.
- Notify local police, sheriff or highway patrol if the accident is serious.
- Contact the RSO for additional assistance.

 Emergency numbers for the shipper are listed on the Bill of Lading under "Shipper".

A 24/7 emergency contact number is also listed on the Bill of Lading.

SEEK MEDICAL ATTENTION FIRST!

Then follow the steps outlined...