

EC&I834 ADDIE TEMPLATE

ANALYSIS

The prompt
<p>The primary issue driving the need for this instruction is the learners' lack of familiarity with the Brightspace Learning Management System (LMS), which is essential for their success in the course. Many students have little to no prior experience using LMS platforms, and their ability to engage with course materials and assessments is hindered by this lack of proficiency. Furthermore, the diverse demographic of learners includes a significant number of non-native English speakers who may struggle with complex instructions and technical terminology.</p> <p>By addressing these issues through a structured introduction to Brightspace, the course ensures that all learners, regardless of background or prior experience, can confidently navigate the LMS, access learning materials, and participate in key activities such as discussion posts and assessments. This foundational skill set is critical for learners to focus on the substantive content of their medical device reprocessing program without being hindered by technological barriers.</p>
Learner personas
<ul style="list-style-type: none">• Target Audience: New medical device reprocessing students.• Demographics:<ul style="list-style-type: none">○ Learners typically range in age from 18–35 years.○ The course has specific admission requirements: Grade 12 education and English proficiency with a minimum overall score of Band 6.5 (with a minimum score of 5.0 in each component).○ Many learners are non-native English speakers, with English as an additional language (EAL).○ Education levels may vary, but generally, students may have lower academic ability or fewer advanced qualifications.• Current Skills & Knowledge:<ul style="list-style-type: none">○ Students may have little to no prior knowledge of medical device reprocessing.○ Their familiarity with learning management systems (LMS) may range from minimal to moderate. However, many students struggle with navigation and system use, indicating a need for user-friendly design and guidance in LMS tutorials or orientation sessions.

- **Challenges:**

- Many students face difficulties navigating the LMS, which could impact their ability to engage fully with course materials.
- English proficiency challenges for non-native speakers may require simplified language or supplementary resources for understanding technical terms and content.

- **Learning Preferences & Needs:**

- Given that many learners are non-native English speakers and may have varied educational backgrounds, the course should prioritize clear, simple language and visual aids.
- Learners may benefit from additional support in using the LMS, including step-by-step guides or introductory training.
- A blended learning approach (combining in-person and online elements) might help address diverse learning needs and preferences.

Course overview

The course should enable learners to demonstrate basic navigation and use of the Brightspace LMS. The key skills and abilities include:

- 1. Logging into Brightspace:**

- **Learners should be able to successfully log into the Brightspace LMS using their credentials.**

- 2. Navigating Brightspace Menus and Sections:**

- **Learners should be able to find and access the following key sections within Brightspace:**
 - **Learning Outcomes:** Understand how to find course objectives and learning outcomes.
 - **Calendar:** Use the calendar to track important dates such as assignments, exams, and events.
 - **Newsfeed:** Check for announcements and course updates posted by the instructor.
 - **Exam Section:** Access and complete assessments or exams available in the course.

- 3. Submitting a File to the Dropbox:**

- **Learners should be able to upload and submit assignments or files to the course Dropbox in Brightspace.**

4. Making a Discussion Post:

- **Learners should be able to participate in online discussions by making a post in the discussion forum.**

5. Completing an Example Exam:

- **Learners should be able to access and complete a sample exam, applying the basic skills learned in the course.**

Learning environment

The learning environment is asynchronous and fully online, leveraging Brightspace LMS as the primary platform for delivering course content and facilitating interactions. Learners engage with course materials, complete assignments, and participate in discussions at their own pace, offering flexibility to accommodate diverse schedules and time zones. Learners are required to have access to a computer with a reliable internet connection to participate. The cost will be zero, but based on admission to the MDRT program.

Opportunities:

- **Learners:** Self-paced learning allows students to review materials as needed, promoting mastery through repetition and practice.
- **Facilitators:** Clear, step-by-step instructions, visual aids, and pre-recorded tutorials provide consistent guidance for all learners.
- **Learning Technologies:** Brightspace offers tools such as calendars, discussion boards, and automated assessments to support organization, communication, and self-directed learning.

Limitations:

- **Learners:** Limited real-time support may challenge those who struggle with English proficiency or lack prior LMS experience.
- **Access and Cost:** Requires reliable internet and devices, which may be barriers for some students.

Domain of Learning:

This learning falls primarily within the **Cognitive Domain** of Bloom's Taxonomy, as it focuses on building learners' knowledge and understanding of the LMS and applying that knowledge through tasks. It also includes **psychomotor elements**, as learners perform hands-on interactions with the LMS interface (e.g., navigating menus, uploading files). Additionally, it

aligns with the **technological domain**, emphasizing digital literacy and the development of technical skills essential for engaging in an online learning environment.

This asynchronous, online environment emphasizes accessibility and flexibility while addressing the diverse needs of learners through intentional design and support strategies.

DESIGN

Course-level objectives
<ul style="list-style-type: none">● Primary Objectives:<ul style="list-style-type: none">○ Learners will demonstrate the ability to log in to Brightspace and navigate the dashboard.○ Learners will locate key sections: Learning Outcomes, Calendar, Newsfeed, and Exam Section.○ Learners will successfully submit an assignment via Dropbox.○ Learners will create and post to a discussion forum.○ Learners will complete a sample online exam.○ Learners will create instructional guides on how to complete specific tasks in Brightspace, using a format and language of their choice. These guides will become part of a database for future students entering the program.●
Instructional approach
<p>Instructional Strategies</p> <p>To cater to your diverse learners:</p> <ul style="list-style-type: none">● Multimodal Instruction:<ul style="list-style-type: none">○ Provide text, video, and interactive content for each topic.○ Use simple language and visuals to support EAL learners.● Scaffolded Learning:<ul style="list-style-type: none">○ Start with simple tasks (logging in) and build toward more complex tasks (completing an exam).● Active Learning:<ul style="list-style-type: none">○ Include hands-on activities for each module, such as practice submissions and navigation tasks.● Feedback:<ul style="list-style-type: none">○ Offer immediate feedback through quizzes and mock activities.○ Include instructor or peer feedback for discussion posts.

Major platforms		Educational technologies
<i>Design2Learning (D2L) BrightSpace</i>		<p><i>List the ways that the platform and other educational technologies will be used to support student learning.</i></p> <p><i>e.g., Group discussions, polling, video-hosting, peer feedback activities...</i></p>
Course design pre-planning		
Learning objective	Assessment	Learning material
Logging In and Dashboard Navigation <ul style="list-style-type: none"> • Watch a video tutorial on logging in and navigating the dashboard. • Follow a step-by-step guide (PDF) on the process. • Practice logging in to a test Brightspace account and exploring the dashboard. • Follow text instructions to locate specific sections (e.g., Learning Outcomes, Calendar). 	<p>Summative H5P interaction no formal submission</p> <ul style="list-style-type: none"> • Complete an interactive tutorial with hotspots and annotated screenshots. 	<ul style="list-style-type: none"> • Video tutorial • Step-by-step guide (PDF) • H5P content
Submitting Assignments Learning Steps: <ul style="list-style-type: none"> • Watch a screencast video on submitting assignments. • Follow a text-based guide. • Practice uploading a file to a mock Dropbox. 	<p>Summative H5P interaction no formal submission</p> <p>Complete an interactive tutorial with hotspots and annotated screenshots</p> <p>(The learner submits their assignment in the final assignment)</p>	<ul style="list-style-type: none"> • Video tutorial • Step-by-step guide (PDF) • H5P content
Creating a Discussion Post Learning Steps:	<ul style="list-style-type: none"> • Participate in a peer review of discussion posts. 	<ul style="list-style-type: none"> • Video tutorial • Step-by-step guide (PDF)

<ul style="list-style-type: none"> • Watch a video tutorial on creating discussion posts. • Review discussion etiquette tips and examples of posts. • Write and submit a discussion post on a sample topic. 		<ul style="list-style-type: none"> • H5P content
Taking a Sample Exam Learning Steps: <ul style="list-style-type: none"> • Follow step-by-step instructions for taking an exam. • Complete a sample exam walkthrough. 	<ul style="list-style-type: none"> • Complete an auto-graded sample quiz. 	<ul style="list-style-type: none"> • Video tutorial • Step-by-step guide (PDF) • H5P content
Final Assignment: Creating Instructional Guides for Fellow Students Learning Steps: <ul style="list-style-type: none"> • Choose a task to create an instructional guide for. • Select a format (written guide, video tutorial, infographic, interactive presentation, podcast). • Use native language and culturally relevant strategies if desired. • Develop and submit the guide. • Review and provide feedback on peers' guides. 	<ul style="list-style-type: none"> • Content accuracy • Clarity and organization • Creativity and engagement 	<ul style="list-style-type: none"> • Tools for creating chosen format (e.g., video recording software, infographic tools) • Access to Dropbox for submission