

## COURSE ABSTRACT

# IBM SPM Design System for Designers

9D79G

### Course Description

This self-paced course introduces the learner to the following topics:

- The increasing importance of design in the development of digital services and web apps
- The related introduction of national web design systems
- The layout and contents of the U.S. Web Design System
- The IBM Design Thinking framework
- The IBM Social Program Management (SPM) Web Design System

The course explains the importance of design in the development of usable web apps and digital services. It also places the importance of design in the context of governments in Canada, the U.K., and U.S. setting up national web design systems. The course also introduces the IBM Design Thinking framework and the IBM SPM Web Design System.

### General Information

**Delivery Method:** Self-paced.

**Audience:** This course is intended for a mixed audience includes business analysts (BA), Developers, and Graphic Designers who will work on SPM implementation projects that use the IBM SPM Web Design System. For BAs who find themselves tasked with design work, it will provide the background information that they need on design and how essential it is to application development. For Developers, it introduces them to basic design concepts and IBM Design Thinking. Graphic Designers will also benefit from an introduction to IBM Design Thinking and the structure and contents of the IBM SPM Web Design System.

**Topics:** The course covers the following topics:

- How the overarching Merative SPM product is structured and the functional interrelationships between its constituent parts.
- The main functional components of the Merative SPM Platform and the respective purpose of each component.
- SPM business process analysis activities.

- Learning Objectives:** After completing the course, learners should be able to:
- Explain the purpose of government web design systems.
  - State general design guidelines, including accessibility and theming.
  - Provide an overview of IBM Design Thinking.
  - Identify the components in the IBM Social Program Management (SPM) Design System.
  - Interpret guidelines for using IBM Web Design System components.

**Prerequisites:** Learners should have a working knowledge of health and human services programs and exposure to and experience of typical business process analysis activities related to system implementations.

**Duration:** 1 day

**Skill Level:** Basic

### Course Agenda

<b>Course Introduction</b> <b>Duration: 15 mins</b>	
<b>Learning objectives:</b>	After completing this lesson, learners should be able to: <ul style="list-style-type: none"> <li>• Describe the course objectives             <ul style="list-style-type: none"> <li>o Outline the course agenda</li> </ul> </li> </ul>
<b>Unit 1: Web App Design Introduction</b> <b>Lesson 1. Designing Web Apps</b> <b>Duration: 30 minutes</b>	
<b>Learning objectives:</b>	After completing this lesson, learners should be able to: <ul style="list-style-type: none"> <li>• State the importance of design when planning and developing citizen-facing government web apps.</li> <li>• Differentiate between User Experience (UX) design and User Interface (UI) design.</li> <li>• Outline some key design considerations and principles.</li> <li>• Describe the design process and its associated roles and tasks.</li> <li>• Provide an overview of IBM Design Thinking and explain how it facilitates user-centric design. IBM Cúram SPM Approach.</li> </ul>

## Unit 1: Exercise 1 – Perform Design Thinking Ideation and To-Be Stages

Duration: 1 hour 40 minutes

Learning objectives: After completing this exercise, learners should be able to:

- Use the provided scenario to perform Design Thinking Ideation and To-Be Stages

Note: This exercise introduces you to the overall Design Thinking process by providing a partially completed Design Thinking workshop and asking you to finish off certain parts of it based on the work that has already been done.

## Lesson 2. Design Systems

Duration: 30 minutes

Learning objectives:

After completing this lesson, learners should be able to:

- Define what a web design system is.
- Provide an overview of the official U.S. web design system.

## Unit 1: Exercise 2 – Access US WDS and Example Pages Based on it

Duration: 20 minutes

Learning objectives:

After completing this exercise, learners should be able to:

- Access the U.S. Web Design System.
- Navigate to the Showcase section to view real-world sites and services that use the U.S. Web Design System.
- Compare and contrast some sites to see whether you can identify the influence of the U.S. Web Design System on their structure and functionality.

## Unit 2: SPM Web Design System

### Lesson 1. Introduction to SPM WDS

Duration: 25 minutes

Learning objectives:

After completing this lesson, learners should be able to:

- Provide an overview of the IBM Social Program Management (SPM) Design System.
- Summarize the design principles of the SPM Web Design System.
- Explain the relationship between the SPM Web Design System and the official U.S. Web Design System.
- Describe some of the global settings of the SPM Web Design System.
- Navigate the SPM Web Design System documentation and identify the different artifacts that it contains.

- **Unit 2: Exercise 1 – Access WDS Documentation**

- **Duration: 15 minutes**

---

Learning objectives:

After completing this exercise, learners should be able to:

- Access the GovHHS Web Design System Documentation.
- Navigate to the Components section and select a component, **Button**.
- Explore the information that the documentation provides for the button component

### Lesson 2. SPM WDS Components

**Duration: 40 minutes**

---

Learning objectives:

After completing this lesson, learners should be able to:

- Summarize the types of components that the SPM Web Design System contains and provides design usage guidelines for.
- Navigate the documentation repository.
- List and describe the main layout components for app pages.
- Identify some key components:
  - Grid
  - Section
  - Tab
  - Header
  - Footer
  - Sidebar
  - Message
  - Card
  - Inputs
  - Progress Indicator

### Unit 2: Exercise 2 – Identify WDS Components on a Sample Page

**Duration: 30 minutes**

---

Learning objectives:

After completing this exercise, learners should be able to:

- Examine pages from the new Universal Access (UA) Application Module that use the GovHHS Web Design System.
- Look up the appropriate area of the Storybook to identify the components used on individual UA pages.

### Lesson 3: Design Considerations

**Duration: 45 minutes**

---

Learning objectives:

After completing this lesson, learners should be able to:

- Access and interpret guidelines for arranging components.
- List and describe characteristics of well-defined pages.
- Discuss some of the main issues that can affect how app pages are themed and styled:
  - Typography
  - Color schemes

- Unit 2: Exercise 3 – Sketch Prototype Pages that Use DS Components

- Duration: 1 hour

Learning objectives:

After completing this exercise, learners should be able to:

- Sketch prototype pages that use Design System components.
- Use some of the outputs of the Design Thinking process exercise in Unit 1 to sketch pages for the scenario that use design system components.