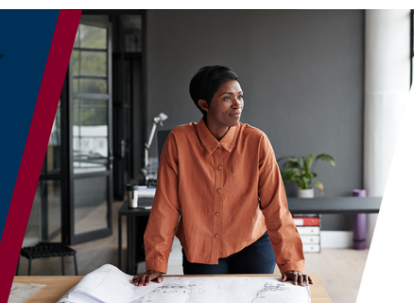


Introduction to Systems Thinking

Section 2: Introduction

## Introduction to Systems Thinking

### SECTION 2 DEVELOPING A SYSTEMS THINKING MINDSET



## Section 2: Introduction

This section, Developing a Systems Thinking Mindset, takes your experience to the next level by providing opportunities to analyze and evaluate real-world case studies where systems thinking should be, or has been, used to solve complex problems. By examining systems and solutions, breaking them down into parts, identifying causes, supporting inferences with evidence, and defending opinions and judgments about solutions' validity and quality, you will deepen their understanding of systems thinking and the impact it has on solving complex problems. This section prepares you for the next section, where you will develop your own solutions to complex problems relevant to your field or program of study.

This section covers one competency in three lessons:

- Lesson 1: Causal Loop Diagrams
- Lesson 2: Systems Archetypes
- Lesson 3: The Case of Shrinking Housing Values

## Build Employability Skills and Competence

The skills addressed in this section are valuable in fields ranging from business, education, healthcare, and science to information technology and many in between. Given today's increasingly complex, multifaceted world, every person needs to address difficult problems. The skills in this section are:

1. Examine the context of relationships to understand a system.
2. Explain connections and properties that exist between subsystems in a complex system.
3. Assess feedback loops within a system to understand the influence of causes and effects.
4. Develop a causal loop diagram that creates a concise story about a complex problem or issue within a system.
5. Identify the strengths and challenges of a solution for a systems problem.

In this section, you can demonstrate these skills by passing a final assessment that measures whether you have mastered this competency:

- Analyze complex problems and solutions using a systems thinking methodology.

## Prepare for the Assessment

To prepare for the competency performance assessment, ask yourself this question:

- Can I draw conclusions about a case study's relationships, connections, properties, and subsystems through the application of systems thinking tools?

## Move Ahead if Ready

Are you ready to demonstrate your competency and skills?

If you answered yes to the "Prepare for the Assessment" question, begin this section by taking the section 2 assessment.

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