

Creative Problem Solving

Course Overview

This course will introduce students to creative problem solving, including the problem-solving method, information gathering, problem definition, preparing for brainstorming, generating solutions, analyzing solutions, selecting a solution, planning your next steps, and recording lessons learned.

<u>Module 01 - Getting Started</u>	2m
Getting Started	
Workshop Objectives	
<u>Module 02 - The Problem Solving Method</u>	3m
The Problem Solving Method	
What is a Problem?	
What is Creative Problem Solving?	
What are the Steps in the Creative Solving Process?	
Case Study	
<u>Module 03 - Information Gathering</u>	4m
Information Gathering	
Understanding Types of Information	
Identifying Key Questions	
Methods of Gathering Information	
Case Study	
<u>Module 04 - Problem Definition</u>	6m
Problem Definition	
Defining the Problem	
Determining Where the Problem Originated	
Defining the Present State and the Desired State	
Stating and Restating the Problem	
Analyzing the Problem	
Writing the Problem Statement	
Case Study	
<u>Module 05 - Preparing for Brainstorming</u>	6m
Preparing for Brainstorming	
Identifying Mental Blocks	
Removing Mental Blocks	
Stimulating Creativity	
Case Study	

<u>Module 06 - Generating Solutions (I)</u>	6m
Generating Solutions (I)	
Brainstorming Basics	
Brain Writing and Mind Mapping	
Duncker Diagrams	
Case Study	
<u>Module 07 - Generating Solutions (II)</u>	6m
Generating Solutions (II)	
The Morphological Matrix	
The Six Thinking Hats	
The Blink Method	
Case Study	
<u>Module 08 - Analyzing Solutions</u>	4m
Analyzing Solutions	
Developing Criteria	
Analyzing Wants and Needs	
Using Cost/Benefit Analysis	
Case Study	
<u>Module 09 - Selecting a Solution</u>	4m
Selecting a Solution	
Doing a Final Analysis	
Paired Comparison Analysis	
Analyzing Potential Problems	
Case Study	
<u>Module 10 - Planning Your Next Steps</u>	3m
Planning Your Next Steps	
Identifying Tasks	
Identifying Resources	
Implementing, Evaluating, and Adapting	
Case Study	
<u>Module 11 - Recording Lessons Learned</u>	3m
Recording Lessons Learned	
Planning the Follow-Up Meeting	
Celebrating Successes	
Words from the Wise	
Case Study	

Total Duration: 47m