

INFOSOFT IT SOLUTIONS

Training | Projects | Placements

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Creative Problem Solving

Introduction to Creative Problem Solving

- Definition and importance of CPS
- Characteristics of creative thinkers
- Overview of CPS frameworks and methodologies

Understanding the Problem

- Problem definition and analysis
- Root cause analysis techniques (e.g., 5 Whys, Fishbone diagram)
- Identifying constraints and challenges

Creative Thinking Techniques

- Divergent vs. convergent thinking
- Brainstorming techniques (e.g., traditional, brainwriting, reverse brainstorming)
- Mind mapping and visualization tools

Generating Ideas

- Idea generation techniques (e.g., SCAMPER, TRIZ, random stimulation)
- Using analogies and metaphors for inspiration
- Incorporating lateral thinking strategies

Evaluation and Selection of Ideas

- Criteria for evaluating ideas (feasibility, impact, novelty)
- Prioritization techniques (e.g., decision matrices, pairwise comparison)
- Collaborative decision-making processes

Prototyping and Experimentation

- Rapid prototyping techniques
- Design thinking principles in prototyping
- Conducting small-scale experiments

Implementing Solutions

- Planning and executing implementation strategies
- Overcoming resistance to change
- Project management considerations

Reflection and Iteration

- Reviewing outcomes and lessons learned
- Iterative problem-solving approaches

- Continuous improvement and adaptation

Team Dynamics in CPS

- Building and managing diverse teams
- Facilitating CPS workshops and sessions
- Enhancing team creativity and collaboration

Cultural and Organizational Context

- Creating a supportive environment for CPS
- Embedding CPS in organizational culture
- Case studies of successful CPS initiatives

Ethics and Responsibility in CPS

- Ethical considerations in problem-solving
- Balancing innovation with ethical standards
- Social and environmental impacts of solutions

Future Trends in CPS

- Emerging technologies and CPS
- Predictive analytics and AI in problem-solving
- Future directions and innovations in CPS

Application and Practice