

Days: 4

Audience: Employees, managers, and consultants involved in designing, improving, or re-engineering processes, along with internal and external stakeholders and suppliers impacted by those processes.

Prerequisites: Foundation Certification in IT Service Management is recommended.

Description: There are many frameworks and standards that define best practices for achieving quality IT service management (ITSM) - ITIL, ISO/IEC 20000, COBIT, CMMI, DevOps, Knowledge-Centered Support, etc. While each describes processes and controls (**what to do**), none provide clear, step-by-step methods and techniques for actually designing, reengineering and improving processes (**how to do it**).

That's where CPDE comes in, bridging the gap by teaching the **how** and equipping professionals with practical, repeatable methods to design and improve ITSM processes.

Written in-house by the ITSM Academy content team, the Certified Process Design Engineer (CPDE)[®] certification course teaches how to (re)engineer and improve quality, lasting IT Service Management (ITSM) processes. This highly interactive course provides hands-on opportunities to analyze, design, measure and integrate ITSM processes. The knowledge obtained in this course *applies to every Service Management framework, standard and maturity model.*

Course Objectives: In this course, you will be:

- Using proven methods to design (or redesign) processes
- Using best practices to implement and improve processes
- Measuring and marketing the benefits of process improvements
- Overcoming resistance to organizational change
- Using technology to increase efficiency and effectiveness
- Utilizing available frameworks and standards
- Determining customer requirements
- Evaluating the maturity of existing processes
 - IT service management
 - Processes maturity
 - Quality management

OUTLINE:

LESSON 1: THE CPDE ROLE

- Overview of the Certified Process Design Engineer role

LESSON 2: INTRODUCTION

- What is Service Management?
- Why Processes are Important
- Value Chains, Value Streams, and Processes

LESSON 3: THE CHANGING ROLE OF IT

LESSON 4: THE CHANGING ROLE OF TECHNOLOGY

LESSON 5: THE VALUE OF IT SERVICE MANAGEMENT

LESSON 6: USING FRAMEWORKS AND STANDARDS

LESSON 7: ITSM FRAMEWORKS AND STANDARDS

- ITIL[®] 4
- Control Objectives for Information and Related Technology (COBIT)

Certified Process Design Engineer (CPDE)

- Knowledge-Centered Service

LESSON 8: RELATED FRAMEWORKS

- Agile Service Management
- DevOps
- Site Reliability Engineering
- IT4IT™

LESSON 9: ITSM STANDARD

- ISO/IEC 20000

LESSON 10: PROCESS MATURITY FRAMEWORKS AND STANDARDS

- Capability Maturity Model Integration (CMMI)
- ISO/IEC 15504
- ITIL Process Maturity Framework (PMF)

LESSON 11: QUALITY MANAGEMENT FRAMEWORKS AND STANDARDS

- Total Quality Management (TQM)
- Capability Maturity Model Integration (CMMI)
- Lean
- Six Sigma
- ISO 9000 and ISO 9001

LESSON 12: CUSTOMER REQUIREMENTS AS A TRIGGER

LESSON 13: PROCESS DESIGN CONSIDERATIONS

LESSON 14: PROCESS DESIGN APPROACHES

- Developing processes
- Reengineering processes
- Improving processes

LESSON 15: DEFINING AND DOCUMENTING PROCESSES

LESSON 16: ASSESSING PROCESS MATURITY

LESSON 17: TEN PROCESS DESIGN AND IMPROVEMENT STEPS

LESSON 18: PROCESS DESIGN AND IMPROVEMENT TOOLS AND TECHNIQUES

- Process Maps
- Seven Basic Tools of Quality Control
- Producing a Business Case
- Calculating ROI
- Conducting a Cost Benefit Analysis
- Creating a RACI Matrix

LESSON 19: PRODUCING MEANINGFUL METRICS

- Metric Types
- Metric Usages
- Implementing a Metrics Program
- Service Level Management and Metrics

LESSON 20: MANAGING ORGANIZATIONAL CHANGE

LESSON 21: ORGANIZATIONAL CHANGE MANAGEMENT (OCM)

LESSON 22: SUCCESSFUL OCM PROGRAM COMPONENTS

- Preparation
- Motivation
- Education and Training

LESSON 23: SUMMARY

LESSON 24: EXAM REVIEW