PM 36A
3-Days

Software Development in a PRINCE2 Environment

This course builds on the PRINCE2 Project Management methodology providing training for team members who are working within a PRINCE2 environment.
PRINCE2 projects require team members to clearly understand PRINCE2 responsibilities, processes and controls. This course provides this complementary training to ensure a smooth transition into PRINCE2-based software development for technical staff.
Attendees of this course will understand how a software lifecycle maps into the PRINCE2 project stages, understand how to define a PRINCE2-compatible build-strategy, how to provide realistic tolerance-estimations, how to develop a WBS plan and use the PRINCE2-based tolerances, reporting and escalation techniques to identify and manage risk and project progress. Attendees will understand the expectations of PRINCE2-trained Project Managers in the successful delivery of PRINCE2 projects. Core technologies addressed within the course include Use Cases, Test-techniques, Estimation techniques, Requirements Management, Acceptance Test, Inspections and Extreme programming techniques. Knowledge of PRINCE2 although useful, is not a prerequisite as a review of PRINCE2 is provided and the PRINCE2 method is the basis of the course structure.
The training is instructor-led, with extensive exercises and discussion sessions.
Attendees will receive extensive classroom materials, white papers and example project planning documents and estimation toolsets.

Course Objectives
The course covers:

- Project Business Objectives
- PRINCE2 overview
- Integrating an SDLC into PRINCE2
- Software lifecycles options
- PRINCE2 tolerances
- Team organisation
- Effective Requirements gathering and management
- Acceptance testing in PRINCE2
- Inspections and reviews
- Time management
- Quality Processes
- Configuration Control
- Risk Management
- Earned Value Analysis
- Monitoring Techniques
- Estimation calculations
- Project Planning / Critical Path and Critical Chain
- Project Tracking and Control
- Project Review and Closure

Audience

- Lead analyst / programmers
- Technical staff moving into a Prince project

Prerequisites

- Exposure to software development
- Familiarity with multi-person projects

Timetable

Register at 09:00 on day one for 09:30 start. 09:00 start on successive days. Finish at 17:00 each day.

Presentation Style

Lectures, demonstrations, exercises and group discussions.

Dates and Venues

Refer to *Course Schedules.*

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Introduction to PRINCE2

- Benefits of PRINCE2
- PRINCE2 Process Model
- Components
- Techniques
- PRINCE2 Stages – Management and Technical
- PRINCE2 Templates
- Managing WOW!

Software Development Lifecycles using PRINCE2

- RAD
- Spiral
- Waterfall
- V-Model
- Extreme Programming
- RUP and PRINCE2
- DSDM and PRINCE2
- Mapping SDLC into PRINCE2 stages

Requirements Management

- Business Case Development
- Good Requirements and how to get them
- Functional Requirements
- Non-functional Requirements
- Assumptions
- JAD, Use Cases Prototypes, Story Boards
- Prioritisation, MoSCoW Rules
- Bunching
- Change Control - Managing Changing Requirements
- Change Log

Organisation under PRINCE2

- Organisation
- Project Board
- Roles
- Staffing
- Reporting Paths

Initiating a Project

- The PID
- Team Approach to Decision Making
- Leadership
- Getting Buy-in

Quality in a Project Environment

- PRINCE2 Quality Path
- Quality Processes
- Configuration Control
- Testing and Test Strategies
- Test Design and Automation
- Validation & Verification
- Designing Acceptance Tests
- Quality Review Technique

Management of Risk

- Risk Analysis
- Risk Tolerance
- Risk Management
- Risk Log

Product-Based Planning

- Product Based Planning
- Establishing a Project
- Lifecycle Mapping
- Resource Allocation and Scheduling
- PBS, Gantt and Pert Charts
- GIGO
- Task Planning
- Critical Chain
- Reports and Reporting
- Costing

Estimating the Task

- Estimation techniques
- Analogue
- Delphi
- KLOCs
- Function Points
- CoComo
- "Been There- Done That"
- OO Estimation

Controlling a Stage + Managing Stage Boundaries

- Base-lining Your Project
- Progress Monitoring
- Defining Tolerances
- Management by Exception
- Earned Value Analysis
- Critical Path Monitoring
- Time Management
- Monitoring Techniques
- Micro Milestones
- Time Boxing
- Daily Build and Smoke
- When to Re-plan
- Review and Rescheduling
- Recovery techniques

Completing Product Delivery

- Workpackages
- Planning for Delivery
- Deployment Teams
- Cut-over Techniques and Planning
- Data Takeover
- Graceful Back-out
- Acceptance Testing Criteria
- Check pointing & Highlights

Closure

- Handover
- Post Project Review

Key Topics Review

- Elements of Planning and Control
- Requirements vs. Acceptance Tests
- Successful Delivery

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