

PM 68  
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*.

# Software Development in a PRINCE2 Environment

<p><b>Introduction to PRINCE2</b></p> <ul style="list-style-type: none"> <li>📁 Benefits of PRINCE2</li> <li>📁 PRINCE2 Process Model</li> <li>📁 Components</li> <li>📁 Techniques</li> <li>📁 PRINCE2 Stages - Management and Technical</li> <li>📁 PRINCE2 Templates</li> <li>📁 Managing WOW!</li> </ul> <p><b>Software Development Lifecycles using PRINCE2</b></p> <ul style="list-style-type: none"> <li>📁 RAD</li> <li>📁 Spiral</li> <li>📁 Waterfall</li> <li>📁 V-Model</li> <li>📁 Extreme Programming</li> <li>📁 RUP and PRINCE2</li> <li>📁 DSDM and PRINCE2</li> <li>📁 Mapping SDLC into PRINCE2 stages</li> </ul> <p><b>Requirements Management</b></p> <ul style="list-style-type: none"> <li>📁 Business Case Development</li> <li>📁 Good Requirements and how to get them</li> <li>📁 Functional Requirements</li> <li>📁 Non-functional Requirements</li> <li>📁 Assumptions</li> <li>📁 JAD, Use Cases Prototypes, Story Boards</li> <li>📁 Prioritisation, MoSCoW Rules</li> <li>📁 Bunching</li> <li>📁 Change Control - Managing Changing Requirements</li> <li>📁 Change Log</li> </ul> <p><b>Organisation under PRINCE2</b></p> <ul style="list-style-type: none"> <li>📁 Organisation</li> <li>📁 Project Board</li> <li>📁 Roles</li> <li>📁 Staffing</li> <li>📁 Reporting Paths</li> </ul>	<p><b>Initiating a Project</b></p> <ul style="list-style-type: none"> <li>📁 The PID</li> <li>📁 Team Approach to Decision Making</li> <li>📁 Leadership</li> <li>📁 Getting Buy-in</li> </ul> <p><b>Quality in a Project Environment</b></p> <ul style="list-style-type: none"> <li>📁 PRINCE2 Quality Path</li> <li>📁 Quality Processes</li> <li>📁 Configuration Control</li> <li>📁 Testing and Test Strategies</li> <li>📁 Test Design and Automation</li> <li>📁 Validation &amp; Verification</li> <li>📁 Designing Acceptance Tests</li> <li>📁 Quality Review Technique</li> </ul> <p><b>Management of Risk</b></p> <ul style="list-style-type: none"> <li>📁 Risk Analysis</li> <li>📁 Risk Tolerance</li> <li>📁 Risk Management</li> <li>📁 Risk Log</li> </ul> <p><b>Product-Based Planning</b></p> <ul style="list-style-type: none"> <li>📁 Product Based Planning</li> <li>📁 Establishing a Project Lifecycle Mapping</li> <li>📁 Resource Allocation and Scheduling</li> <li>📁 PBS, Gantt and Pert Charts</li> <li>📁 GIGO</li> <li>📁 Task Planning</li> <li>📁 Critical Chain</li> <li>📁 Reports and Reporting</li> <li>📁 Costing</li> </ul> <p><b>Estimating the Task</b></p> <ul style="list-style-type: none"> <li>📁 Estimation techniques</li> <li>📁 Analogue</li> <li>📁 Delphi</li> <li>📁 KLOCs</li> <li>📁 Function Points</li> <li>📁 CoComo</li> <li>📁 "Been There- Done That"</li> <li>📁 OO Estimation</li> </ul>	<p><b>Controlling a Stage + Managing Stage Boundaries</b></p> <ul style="list-style-type: none"> <li>📁 Base-lining Your Project</li> <li>📁 Progress Monitoring</li> <li>📁 Defining Tolerances</li> <li>📁 Management by Exception</li> <li>📁 Earned Value Analysis</li> <li>📁 Critical Path Monitoring</li> <li>📁 Time Management</li> <li>📁 Monitoring Techniques</li> <li>📁 Micro Milestones</li> <li>📁 Time Boxing</li> <li>📁 Daily Build and Smoke</li> <li>📁 When to Re-plan</li> <li>📁 Review and Rescheduling</li> <li>📁 Recovery techniques</li> </ul> <p><b>Completing Product Delivery</b></p> <ul style="list-style-type: none"> <li>📁 Workpackages</li> <li>📁 Planning for Delivery</li> <li>📁 Deployment Teams</li> <li>📁 Cut-over Techniques and Planning</li> <li>📁 Data Takeover</li> <li>📁 Graceful Back-out</li> <li>📁 Acceptance Testing Criteria</li> <li>📁 Check pointing &amp; Highlights</li> </ul> <p><b>Closure</b></p> <ul style="list-style-type: none"> <li>📁 Handover</li> <li>📁 Post Project Review</li> </ul> <p><b>Key Topics Review</b></p> <ul style="list-style-type: none"> <li>📁 Elements of Planning and Control</li> <li>📁 Requirements vs. Acceptance Tests</li> <li>📁 Successful Delivery</li> </ul>
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