

Introduction to PSM Measurement

Course Information Sheet



Course Description	<p>The Introduction to PSM Measurement course is a two-day course, which describes the PSM information-driven measurement process. This course teaches students the basic skills needed to select, apply and analyse measures to assist effective project, program and organisational-level management, and includes practical hands-on tailoring and application exercises.</p> <p>PSM defines an information needs-based analysis process to assist proactive risk mitigation rather than reactive problem resolution. It treats measurement as a flexible process rather than a pre-determined list of graphs and reports resulting in measurement programs that meet particular information needs. PSM also integrates measurement into existing processes resulting in cost-effective and usable measurement programs;</p> <p>PSM is an internationally recognised best practice approach to measurement and is used by government and industry organisations world-wide. PSM based measurement programs meet ISO 15939 requirements and address best practice for measurement as defined in the CMMI®.</p>
Knowledge & Skills Obtained	<p>Successful completion of the course will enable participants to</p> <ul style="list-style-type: none"> • Describe the PSM standard process for measurement, • Use the PSM material as a reference on measurement best practice, and • Establish a solid foundation in understanding best practice measurement. <p>This course provides a valuable foundation in measurement best practice and is useful for anyone establishing or using a measurement system.</p>
Audience	<p>This course is essential for to everyone establishing a measurement program including:</p> <ul style="list-style-type: none"> • Executives, • Project managers, • Product developers and service providers, • Acquirers, and • Measurement implementers and users.
Materials	<p>Participants will be provided with a copy of the PSM textbook (<i>Practical Software Measurement, Objective Information for Decision Makers</i>), course slides and exercises.</p>
Fees	<p>The course fees are \$1,320 (GST inclusive) per participant.</p>
Registration	<p>Complete the Course Registration Form to register for the course. This form is can be downloaded from www.s-3.com.au (/downloads). Joining instructions will be sent once course registration has been confirmed.</p>
Contact	<p>Contact S-3 on (02) 6161 3322 or e-mail info@s-3.com.au.</p>



Course Outline

1. The PSM Approach to Measurement:
 - PSM Process Overview
 - PSM Objectives and Principles
 - Integrated Processes
2. Planning Measurement:
 - Identifying Information Needs
 - Information Categories
 - Measurement Hierarchy
 - Selecting and Specifying Measures
 - Measurable Concepts
 - Measurement Constructs
 - Integrating Measurement into Project Processes
 - Measurement in Multi-Project Organisations
 - Developing a Measurement Plan
3. Performing Measurement:
 - Steps in Applying Measures
 - Data Collection and Verification
 - Estimation Analysis Procedures
 - Feasibility Analysis
 - Performance Analysis
 - Making Recommendations
4. Establishing and Sustaining Measurement Commitment:
 - Implementation Steps
 - Lessons Learnt
5. Evaluating Measurement:
 - Evaluating Measures Used
 - Evaluating Measurement Process
 - Updating the Experience Base
6. Product Demonstration of PSM Insight

Course Exercises

1. Identification of Information Needs
2. Mapping Information Needs to Measures
3. Measurement Specification
4. Estimation Analysis
5. Feasibility Analysis
6. Performance Analysis
7. Evaluate Measurement Effectiveness