

# Process Plant Start Up and Commissioning



Focus on: **The Manager** ☒ **The Specialist** ☒ **Spotlight Programme** ☐ **Hands-on Skills** ☐

## Course Overview

This program addresses in an integrated manner the key activities involved in the safe, effective and timely commissioning and start-up of a new plant or facility.

Start Up and Commissioning of new plant and equipment presents both a major technical and management challenge. An organisation's personnel must familiarise themselves with new equipment, processes and technologies, develop the relevant operating and safety procedures. At the same time there is the requirement to execute an exceptionally large scope of work – much of it complex when compared to routine operations - over a short period of time, with equipment and plant which is, as yet, unproven and that may pose significant risks to personnel, environment and profitability.

This program addresses the technical issues of commissioning and starting up various equipment and asset types commonly found in processing plant environments, the development of specific commissioning procedures, process and facility wide commissioning strategies.

We then address the broader managerial issues of commissioning and start up planning, resourcing, budgeting and cost control, risk management – safety, environmental, financial and operational, problem solving and trouble shooting.

Course Objectives		This Course is Ideal For:	
1	Provide participants with an awareness of the unique challenges associated with plant start-up and commissioning	✓	General Managers who have oversight responsibility for Plant Start-up and Commissioning;
2	Understanding of the key concepts, tools and techniques	✓	Operations and Maintenance Managers
3	Facilitate the effective planning, execution, control and management	✓	Plant Start-up and Commissioning Managers and Engineers
4	Contribute confidently to the planning and execution of effective strategies for plant commissioning and start-up	✓	Technical personnel

Course Content		
Day	Theme	Coverage
1	Managing Risks During Commissioning	<ul style="list-style-type: none"><li>• Introduction to Process Plant Start Up and Commissioning</li><li>• Organisation and Roles</li><li>• Supplementary Topics</li><li>• Cost Estimation</li><li>• Spare Parts Planning</li></ul>
2	Management, Planning and Control	<ul style="list-style-type: none"><li>• Commissioning Strategy</li><li>• Mechanical Completion &amp; Integrity Checking</li><li>• Pre-commissioning and Operational Testing</li></ul>

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3	Process Plant and Machinery Specific Issues	<ul style="list-style-type: none"> <li>• Start-up/Initial Operation, Testing and Acceptance</li> <li>• Process Plant and Machinery Commissioning</li> <li>• Instrumentation and Control Systems</li> <li>• Preparing and Isolating Process Plant</li> </ul>
4	Commissioning Strategy	<ul style="list-style-type: none"> <li>• The Start Up and Commissioning Planning and Control</li> <li>• A Short-cut Approaches to Planning</li> <li>• Progress Monitoring and Control</li> <li>• Earned Value Analysis</li> </ul>
5	Managing Risks During Commissioning	<ul style="list-style-type: none"> <li>• Trouble Shooting and Problem Solving</li> <li>• Risk Management</li> <li>• Managing Safety and Quality</li> <li>• Conclusion</li> </ul>

Course Assessment	Certification
<b>Participants will be assessed on:</b> Participation in sessions Completion of exercises & case studies Performance in assessments	Upon successful completion of the course, participants will receive a <b>Certificate of Successful Completion</b> , along with a <b>Transcript of Marks</b> showing the performance by grade in each element of assessment and overall.

Course Instructor
<p>This speaker is a Management Educator and Consultant with extensive experience teaching MBA, Executive Education and Management Development Seminars and as a hands-on practitioner.</p> <p>He has worked all over with world from Australia to the US, the Middle East, the UK, Western Europe and Asia, and always with a focus on achieving Business and Operational Excellence.</p> <p>He is internationally recognised as a specialist in Operations Management and Business Performance Improvement, along with Statistical and Quantitative Methods, Project Management, Quality Management, Managing Innovation and e-Business.</p>