

**ABOUT HIGH-MIX LOW-VOLUME MANUFACTURING CONSORTIUM AND
PE WSQ GRADUATE DIPLOMA PROGRAMME IN MANUFACTURING OPERATIONS
MANAGEMENT (MOM)**

Consortium on High-Mix Low-Volume Manufacturing

This consortium will address the needs of Precision Engineering companies in manufacturing operations management; and shopfloor automation and control; to manage the dynamism of customer orders in this complex high-mix low-volume manufacturing environment. In this environment, increased product variety increases costs (inventory, material handling, production set-up, test, and other overhead costs), and companies are challenged to keep costs down and yet meet customers' production due dates which are increasingly shorter as many of its customers shortened the order lead time. To date eight Precision Engineering companies had confirmed participation in this consortium which starts in July 2009.

The consortium involves the R&D of an integrated production planning/scheduling and shop floor control software system to facilitate the management of available production resources to ensure that company resources are working on the right product at the right time to fulfill customer's order deadline. The shop floor tracking automates the collection of production execution data and provides an overview of the production status and resource availability. The software system, expected to boost manufacturing capacity utilisation by between 10 to 40% and cycle time reduction by between 20% to 80%, will be tailored to the individual needs of each company. It is planned to license this new technology creating new business opportunities for the system integrators.

PE WSQ Graduate Diploma in Manufacturing Operations Management (MOM)

This WSQ Programme enables the participants to carry out effective planning, scheduling, use, and control of a manufacturing organisation through the study of concepts from industrial engineering, management information systems, production management, inventory management, and other functions as they affect the organisation. This Programme focuses on five modules: Shop Floor Execution & Control; Advanced Planning & Scheduling (APS); Enterprise Resource Planning (ERP); Inventory Management as well as Operations Analysis.

The target group for the PE Graduate Diploma in MOM include Production Supervisors, Industrial Engineering Engineers, Production Engineers, Planners, Schedulers, Production Managers, Production Control Managers, and other professionals involved in Production and inventory management, Shop floor operations management, Supply chain management, Procurement, and Materials management etc. from the Precision Engineering, Electronics, Aerospace and Automotive sectors.