

## Formula 1 Criteria Applied to Productivity

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**Abstract:** The methodology used in Formula One (Pilot Testing) can be applied to productivity, where supporting teams strive to minimize the pilots' times, through TQM (Total Quality Management), Benchmarking, BSC (Balance Score Card), Lean Manufacturing, TPM (Total Productive Maintenance) and Supply Chain, from a start point based on Strategic Planning, Value Analysis and Methods Engineering.

Before the competition there is a careful planning of the teams' strategies (Strategic Planning), using the information of the track (the target market) characteristics. The climate and geographical features also contribute to other variables which affect decision making. Pilot testing permits the recognition of relevant variables and gives as much information as possible in order to reach the main objectives when providing a product, in this case, full customer satisfaction and loyalty (with Value Analysis). Methods Engineering, including time and motion study, enables to assess performance in situ and make corrections to the production and delivery strategies.

Anyone from the organization in contact with one client (external or internal) is a pilot and needs pilot testing (TQM's approach). The tests include observing other pilots' performance from inside and getting additional information from external competitors (Benchmarking). During the competition, the communication among the CEO, area leaders, primary and supporting teams keeps providing information that affects the immediate objectives (with BSC). Performance indicators and other information supplied by the teams take a fundamental importance to do adjustments while the "pilots" are driving when it is feasible (with Lean Manufacturing), and otherwise, they help to take the appropriate action at the "pit stops", following TPM and performing the right "stops", that means supplying what it's necessary to their pilots to be more productive (Supply Chain). Those who want to excel in the competition, reach their objectives and lead their markets need Industrial Engineers to guide them on this process.

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