

GBMP 3P Production, Preparation and Process

PRODUCTION PREPARATION PROCESS (3P) IS A TECHNIQUE DEVELOPED ORIGINALLY AT TOYOTA TO SPEED UP THE CONCURRENT DEVELOPMENT OF NEW PRODUCTS AND PRODUCTION PROCESSES.

Overview: While 3P utilizes many of the techniques of the Toyota Production System, its starting point is typically a blank sheet of paper rather than an existing status quo environment. Today the technique is used more commonly to create innovative new layouts and production processes (sometimes call 2P) for existing products. In the words of Shigeo Shingo, "There is only one way to reduce the waste of transport: better layout." While 3P provides a number of specific guidelines (referred to as catchphrases) for layout and equipment improvement, its chief strength is in the collaboration of the many internal experts to participate in the process. Resulting layouts and production methods often represent breakthrough thinking, creating a target condition that is different from past approaches and unique in the step improvement it brings to the new production operation.

After taking this class attendees will be able to:

- ✓ Understand the importance of fact gathering and involving a cross functional group of employees and managers.
- ✓ How to develop multiple layout options using the knowledge and experience of process owners and experts by quickly testing multiple models
- ✓ Understand how 3P can reduce change orders in any construction process.

Who should attend? This course is designed for cross functional teams including Top Management, Front Line Supervision, Line Workers and Contractors who would have valued input to any construction/move project.

Time Commitment? 16 hours

Course Outline:

- Fact-gathering phase where information goals and constraints regarding the new layout are uncovered in a document.
- 3P event, which trains and engages the team of internal experts and process owners to develop multiple concepts for the new layout, and then vet these against 3P standards. The technique referred to as try storming encourages participants to create and test many model layouts in rapid succession. (Depending upon the magnitude of the new area production, this phase may be in the form of a 2 five-day event. In a larger were more complex situation; additional 3P events may be warranted.)
- Building inexpensive models, often at full- scale, from cardboard and paper, to "exercise" the ideas developed by the 3P team.



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