



**Industrial Engineering Tools for Productivity Improvement**

**WELCOME**

National Productivity Council

**E-Learning Course:** - Industrial Engineering Tools For Productivity Improvement

**Registration Fee (including GST):-** Rs. 2000/-

**Commencement Date/Week:** 1<sup>st</sup> Week of December, 2020 (User Login details to access the course will be communicated to the registered user in the 1<sup>st</sup> week of December, 2020)

**About eLearning Program:** - Productivity is defined as Output/Input. For improving productivity, this ratio must be increased. Various IE Tools are used for improving productivity. Productivity can be improved by work study i.e Method study and work measurement. We have to select a job and record all the elements of work and provide standard time to the work. By this we can have the production norms fixed for the production process and can measure the efficiency of the Organization. Productivity can also be increased by linking it with wages, the employee can be motivated to perform at best. Balance scorecard provides strategy to top management and set the objectives for operations. Plant layout can be improved by using CRAFT algorithm i.e Computer resource allocation of facilities technique which focuses on reducing the transportation cost. TPM and OEE focuses on zero losses and improving the effectiveness of all equipment. Value stream mapping, it is a lean tool to identify waste in production process. VSM provides the holistic view with total production cycle i.e lead time for production. VSM is important since the lead time is directly proportional to cost of the product. Higher the lead time higher the cost of product & lesser the lead time lesser is the cost of product. It also provides strategic direction, macro prospective like lead time & cost of product & micro prospective like value stream metrics analysis.

**E-Learning Course Coverage:** -

There are seven modules. Module 1 Industrial Engineering & Productivity, Module 2 Work Study and Production Norms, Module 3 Balance Scorecard, Module 4 Plant Layout, Module 5 TPM & OEE Module 6 Linking Wages with productivity, Module 7 Lean & Value Stream Mapping

- a) Identify Lead time of production cycle
- b) Identify waste in Production cycle, Value Adding & Non Value adding
- c) Calculate Process cycle Efficiency
- d) Line Balancing
- e) Set the time standards & measure efficiency
- f) Identify the strategy and objective for Organization
- g) Productivity linked Incentive Scheme
- h) Reduce the transportation cost of Plant layout

**Register to learn:**

Thanks and regards

S.P.Singh

Regional Director

National Productivity Council, Chandigarh

Course conducted by Group/ Regional Directorate Name: RD

Chandigarh Name & Designation of Course

Coordinators: Mr.S.P.Singh/Mr.Suyyendu Shivakar Course Coordinator

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