

Lean Courses for Manufacturing

Indian Hills Community College

| Course Name & Suggested Participants | Description | Hours | Class Size |
|--|---|---|------------|
| Lean 101 – Introduction to Lean Principles <i>Everyone involved with the lean transformation</i> | This is the first step in learning the principles of lean manufacturing. The training consists of both classroom instruction and factory simulation. With each round of simulation, more lean techniques are applied and more waste is eliminated. By the final round, participants will see the significant impact that lean manufacturing can make on plant operations. | 1 Day – 8 hours | 16 - 20 |
| Strategy Deployment | This course is in development | | |
| Value Stream Mapping <i>Mangers/Supervisors/Team Leaders</i> | Value Stream Mapping is an essential lean methodology to evaluate the current state and develop a future state of a process. Based on the book, Learning to See, this VSM Course fits best in a repetitive manufacturing environment. Participants will work on one value stream map together and create current state and future state maps and a future state plan. | 2 Days – 8 hrs/day | 12 max |
| Value Stream Mapping <i>Managers/Supervisors/Team Leaders</i> | This Value Stream Mapping Course works well with custom and job shop manufacturing. Participants will create Current and Future State maps of their own processes and report out on the last day. | 3 days – 6hrs/day spaced over 3-6 weeks | 20 max |
| A3 Problem Solving <i>Everyone – beginning with Supervisors/Team Leaders</i> | The A3 Problem Solving method presents a complete, disciplined and effective approach to solving problems. Used by Toyota, it is based on PDCA and includes root cause analysis. Participants will apply A3 Problem Solving to their own work. | 4 days – Spaced over 4-6 weeks | 18 max |
| 5S – Workplace Organization <i>Everyone</i> | A clean and well-organized workplace is key to a successful lean implementation strategy. This course presents the 5S concepts of sort, set in order, shine, standardize and sustain. Participants will learn each concept and apply it to a pre-determined area of the plant throughout the day. | 1 day – 8 hours | 12 max |
| Set Up Reduction <i>Everyone involved with machine set ups</i> | This training shows how to identify and eliminate barriers to shorter set up times. Single Minute Exchange of Dies (SMED) will be taught as a method for improving set ups. | 1 day – 8 hours | 14 - 20 |
| Cellular Flow <i>Engineering, Operations, Maintenance</i> | This training shows how to link and balance manufacturing operations to reduce lead times, minimize work in process inventory, optimize floor space usage and improve productivity | 1 day – 8 hours | 14 - 20 |
| Total Productive Maintenance <i>Maintenance, Machine Operators</i> | This training shows a systematic approach to the elimination of equipment downtime. It will show how to chart and analyze equipment performance to identify the root cause of a problem. | 1 day – 8 hours | 14 - 20 |