

Course Syllabus

Division: Workforce Services

Revised: January 2015

Course, Section No. and Course Title: IND 181 World Class Manufacturing

Curricula in which course is taught: Non-Curricula

Credit Hours: 3

Hours/Day Lecturer: 3

I. CATLOG DESCRIPTION:

Studies the principles and applications of the globalization of industry. Emphasizes the fundamentals of interpersonal/team process, organization skills, total quality tools for continuous improvement, statistical process control, manufacturing resource planning and just-in-time.

II. RELATIONSHIP OF THE COURSE TO CURRICULA OBJECTIVES IN WHICH IT IS TAUGHT: Non-Curricula.

III. REQUIRED BACKGROUND: None.

IV. COURSE CONTENT:

- Terminology - Vocabulary
- Lean Building Blocks
- Toyota Production System
- DNA of Lean Manufacturing (Deming, Ford and Ohno)
- Identification of the Eight Forms of Waste

V. LEARNER OUTCOMES:

VI. EVALUATION:

<p>The learner will become aware of the history of lean manufacturing.</p> <p>The learner will be familiar with the vocabulary and terminology of lean manufacturing.</p> <p>The learner will learn the building blocks of lean manufacturing.</p> <p>The learner will understand how the building blocks interlock with each other.</p> <p>The learner will learn the eight forms of waste</p>	<p>Evaluation of learning will be determined by:</p> <p>Class room discussion</p> <p>Discussion board assignments.</p> <p>In-class simulations (three) where the building blocks will be used to improve a manufacturing process</p> <p>A written paper</p> <p>Two exams (mid-term and final)</p>
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<p>The learner will study the Toyota Production System (TPS).</p>	
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<p>The learner will be ready to work in a lean manufacturing environment.</p>	
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The course supports the following objectives:

DCC Educational Objectives

- Communication
- Critical Thinking
- Computational and Computer Skills