Lean Software Development Certificate Program

Our self-paced online lean software development certificate program covers all of the topics our classroom version covers and results a certificate of completion. The format includes audio-visual presentation, case studies / readings, and test completion. And, like our classroom version, students will have the ability to contact the instructor with questions, requests for feedback on ideas and case exercises. The program is self-paced and up to 12 months are allotted to complete it. Upon completion of the program (including a final test), students will receive a certificate of completion.

The program also provides students with multiple templates that they can modify to suit their own needs.

The program covers the following subject matter:

- Lean Concepts for Software / Tech
- 7 Wastes for Software Development
- Value Stream Mapping
- Current State Mapping
- Future State Mapping
- Standardized Work
- Leveling Work (Heijunka)
- Flow and Pull Systems
- FIFO Flow
- Mistake Proofing
- Team Facilitation
- Five Why's
- Fishbone Diagram
- PDCA (Plan Do Check Act) / PDSA (Plan Do Study Act/Adjust)
- A-3 Problem Solving
- Six Sigma / DMAIC Process
- Policy Deployment
- Lean Metrics / Daily Management
- Lean Culture and Organizational Issues

Features of the e-learning interface include audio-visual presentations, audio-visual case examples/acted out scenarios, glossary, practice and final quiz/test.. These are pictured on the following pages.

Course Slides / Notes

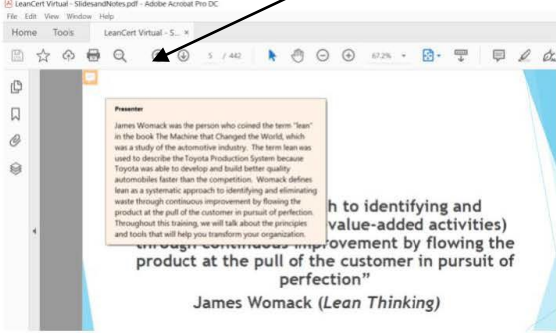A pdf file is available for download at the bottom of the screen (below the picture) which contains slides and presenter notes. This is meant to supplement the audio visual presentations as needed. [This is] a picture that shows where to read the presenter notes on the pdf; hover over the orange icon [in the top] hand corner of the slide to make the notes appear.

Course Syllabus

Course Slides and Notes

Phase 1

Lean Overview

The Seven Wastes

Value Stream Mapping Overview

Current State Mapping

Future State Mapping

Acme Widget VSM

Connecting Flow

Leveling Production

Lean Implementation Strategies

Lean Implementation: Organization and Metrics

Lean Strategy Deployment

Phase 2

5S Overview

Presenter

James Womack was the person who coined the term "lean" in the book The Machine that Changed the World, which was a study of the automotive industry. The term lean was used to describe the Toyota Production System because Toyota was able to develop and build better quality automobiles faster than the competition. Womack defines lean as a systematic approach to identifying and eliminating waste through continuous improvement by flowing the product at the pull of the customer in pursuit of perfection. Throughout this training, we will talk about the principles and tools that will help you transform your organization.

...h to identifying and ...value-added activities) ...through continuous improvement by flowing the product at the pull of the customer in pursuit of perfection"

James Womack (*Lean Thinking*)

LeanProgramel... 11.83 MB   DOWNLOAD

Download-able Course Slides and Notes

Course Content | Course Quiz | Discuss | Glossary | FAQ | Resources | Notes

Welcome

Course Syllabus

Course Slides and Notes

Introduction to Lean and the 7 Wastes

Lean Overview

The Seven Wastes

Respect for People / Eliminating the 8th Waste Series

Value Stream Mapping

Value Stream Mapping Overview

Current State Mapping

Future State Mapping

Connecting Flow

Leveling Production

Course Content
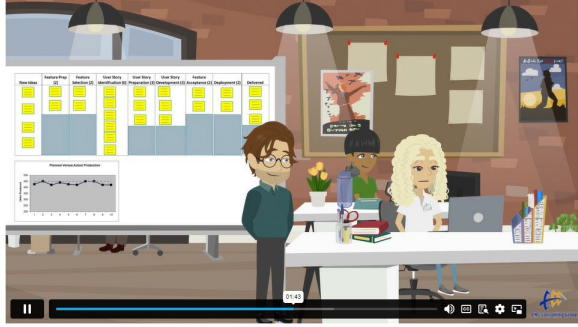
Lean Workcell
Eliminate handoffs across departments

Audio-Visual Presentations with Examples

Quick Quiz

1. In order to connect processes using continuous flow, the processes should

☐ A. Have long changeover times

☐ B. Have high process reliability and changeover time less than takt time

☐ C. Have no more than 20% downtime

PREVIOUS LESSON   NEXT LESSON

Course Content | Course Quiz | Discuss | Glossary | FAQ | Resources | Notes

Audio Visual Case Examples Acted Out

PREVIOUS LESSON   NEXT LESSON

Secure | https://courseportal.2leap.com/lessons/assigned_view?id=404189

HOME   COURSES   TRAINING PATHS   MY ACTIVITY   Dolce, Darren ▾

Home / Courses / Lean Training Free Trial / View Lesson

Final Test

COURSE CONTENT | QUIZ | MY STUFF

≡ CONTENT

✔ Course Syllabus and Slides

Introduction to Lean and the 7 Wastes
✔ What is Continuous Improvement?
✔ Lean Overview
✔ The Seven Wastes
✔ Lean Healthcare: The Doctor's Office
✔ Lean Healthcare Overview
✔ Final Test

Final Test

You have come to the end of the audio-visual lessons. Please ensure that you have completed all other assignments (see syllabus). If you are ready at this point for the final test, please click "Quiz" on the left or top of the screen. This is intended to show you formatting for our quizzes. This trial program includes a simple 7 question quiz. If you are ready to register for one of our certification or other training programs at this point, please visit the online lean training page of our website: http://www.emsstrategies.com/Lean-Training/lean-training-online.html. Courses include Lean Manufacturing Certification, Lean Six Sigma Black Belt, Lean Six Sigma Green Belt, Lean Six Sigma Yellow Belt, Lean Healthcare Certification, and many others.

Click here to start your quiz

Final Test

‹ back to Course   ^ Top

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Course Content | Course Quiz | Discuss | Glossary | FAQ | Resources | Notes

📄 Welcome
📄 Course Syllabus •
📄 Course Slides and Notes

Introduction to Lean and the 7 Wastes

📄 Lean Overview
📄 The Seven Wastes
📄 Respect for People / Eliminating the 8th Waste Series

Value Stream Mapping

📄 Value Stream Mapping Overview
📄 Current State Mapping
📄 Future State Mapping
📄 Connecting Flow
📄 Leveling Production
📄 Acme Widget VSM
📄 Continuous Flow, Pull, and Leveling: 3 Part Series
📄 Value Stream Mapping Case Assignment

UNCATEGORIZED   Created on 12/08/2023

Lean Leadership Certificate Program

Dolcemascolo, Darren
INSTRUCTOR

🕐 Deadline in
1 year

Duration
N/A

Session Time
00:06:34

Glossary

Description

The Lean Leader... ...an Culture: Continuous Improvement... Respect for People. This course will teach you the fundamentals that every Lean Leader should know an... practice. The format includes audio-visual presentations and a final quiz. In our standard courses, stud... will have the ability to contact the instructor with questions and requests for feedback on ideas and case... exercises. The program is self-paced and up to 12 months are allotted to complete it; students will have... access to the program for 1 year. Upon completion of the program (including a final test), students will... receive an electronic certificate of completion.

Objectives

Upon completion of the program including the audio-visual presentation, readings, and test, students will have a working knowledge o... following subject matter:

- ○ Lean Principles
- ○ 7 Wastes

Glossary   31 TERMS   ✕

All A B C D E F G H I J K L M N O P Q R S T U V W X Y Z #

🔍 Search for a term

Andon

A system of flashing lights used to indicate production status in one or more work centers/machines within a facility.

Autonomous Maintenance

A program in which equipment operators share responsibility with maintenance staff for the care of the equipment they use.