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[www.leanvlog.com](http://www.leanvlog.com)

# Chapter 1 - Lean Principles, DMAIC, GEMBA, 7 Wastes

## Lean Principles

Welcome!

Let us start this journey among the best videos I have created and curated to explain to you the Lean Basics.

In this chapter, I will help you to understand the Lean Principles and the DMAIC process (Define, Measure, Analyse, Improve, Control).

By looking at all the videos you will be aware of concepts as GEMBA and 7 Wastes.

Let us start.

### Video 1 - 14 Principles of Toyota Way

- <https://www.leanvlog.com/14-principles-of-the-toyota-way/>

In this video I mention the 14 principles of the Toyota Way as described in the great book of Jeffrey Liker.

From my experience, there are 2 ways to summarize the Lean Principles.

Toyota's House & The 5 Principles of Lean

### Video 2 - Toyota Production System and House of Toyota

- <https://www.leanvlog.com/lean-manufacturing/>

### Video 3 - The 5 Principles of Lean

- <https://www.leanvlog.com/the-5-principles-of-lean/>

## DMAIC

Probably you already heard about Six Sigma Methodology.

To my point of view, the Lean and the Six Sigma have to be used concerning the problem you have to solve.

Behind the 2 approaches, there is a process that fits both.

The process is called DMAIC that is the acronym of:

- Define
- Measure
- Analyze
- Improve
- Control

Here I have discovered a set of 5 videos that I think tell us the story.

### **Video 4 - Define**

- <https://www.leanvlog.com/lean-six-sigma-course-define/>

### **Video 5 - Measure**

- <https://www.leanvlog.com/lean-six-sigma-course-measure/>

### **Video 6 - Analyze**

- <https://www.leanvlog.com/lean-six-sigma-course-analyze/>

### **Video 7 - Improve**

- <https://www.leanvlog.com/lean-six-sigma-course-improve/>

### **Video 8 - Control**

- <https://www.leanvlog.com/lean-six-sigma-course-control/>

## GEMBA

As reported in one of my favorite blog on Lean ([www.allaboutlean.com](http://www.allaboutlean.com)):

Gemba (現場, actual spot, scene of the crime, shop floor): The actual place where the action occurs, usually in contrast to paper presentations and number data. In manufacturing, this usually refers to the shop floor. Sometimes also written as Genba.

One of the key concepts of Lean is that has to be done @ GEMBA and not in the meeting or conference rooms.

Here the video I selected to explain the concept.

### **Video 9 - What is GEMBA?**

- <https://www.leanvlog.com/lean-terms-what-is-gemba/>

### **Video 10 - GEMBA WALK - How to do it - Tips & Rules**

- <https://www.leanvlog.com/gemba-walk/>

### **Video 11 - GEMBA WALK Essentials**

- <https://www.leanvlog.com/gemba-walk-a-clear-explanation/>

### **Video 12 - Gemba or Genchi Genbutsu? by M. Ballè**

- <https://www.leanvlog.com/gemba/>

## 7 Wastes or 8 Wastes?

If I should define Lean in one sentence I will choose: "Lean is a constant effort in waste reduction".

Based on this, in this section, I have collected the videos that will help you to remember and identify the 7 wastes.

Why 7?

In his book, Taiichi Ohno (that is recognized to be the father of the Lean Manufacturing) defined the 7 wastes that can be memorized by the acronym TIMWOOD.

Transportation  
Inventory  
Motion  
Waiting  
Overproduction  
Overprocessing  
Defects

Then, in other literature, they proposed to add another waste that is "Locked creativity" or "Unexpressed people potential".

Here the videos.

### **Video 13 - 7 Wastes and TIMWOOD**

- <https://www.leanvlog.com/7-wastes/>

### **Video 14 - 7 Wastes explained**

- <https://www.leanvlog.com/7-wastes-of-lean/>

### **Video 15 - The 8 Wastes in Lean**

- <https://www.leanvlog.com/8-wastes-lean/>

### **Video 16 - The 8 Wastes in Healthcare**

- <https://www.leanvlog.com/lean-healthcare-8-wastes/>