lean six sigma academy

Krems

How to become a certified trainer
How to become a certified training body

Education and Culture DG
Lifelong Learning Programme

History of Continuous Improvement

Operational Excellence

- **Continuously supplying products and services**

  at the highest quality
  at the lowest cost
  and at the right moment

Operational Excellence is about producing cost-efficient products without failures that meet customer expectations

Value and Foundations of LSS

Where to start

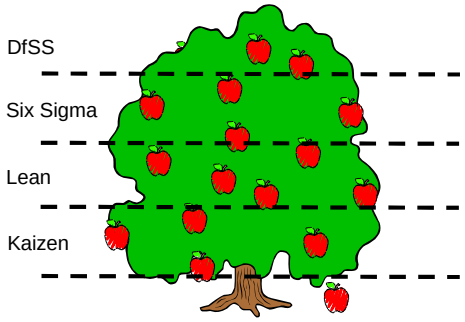
DfSS
5 – Robustness
- Robust processes
- Design for Six Sigma
- Quality Function Deployment

6 Sigma
4 – Capability
- Reducing variation
- In-process control
- Statistical tools

Lean
3 – Stability
- Stable processes
- Eliminating Waste
- Flow & Pull

Kaizen
2 – Overview & Insight
- Visual Management KPI's
- WIP control
- Continuous improvement culture

5S
1 – Structure
- Work environment
- Procedures & instructions
- Abnormalities visible



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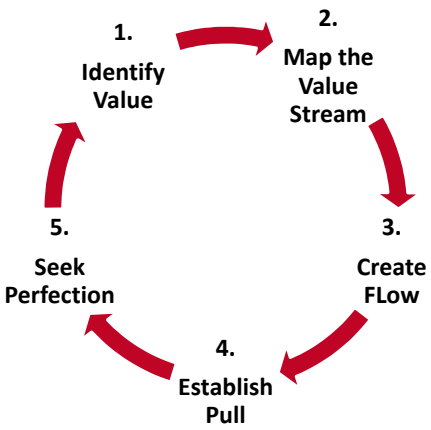
Lean Management

Lean Principles

1. **Value**: Define what is of value to the customer
2. **Value Stream**: Identify the value stream / eliminate waste
3. **Flow**: Create a constant flow
4. **Pull**: Produce based on demand
5. **Perfection**: Continuous improvement



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Lean Management

1.	Over-production	Producing more than asked by market
2.	Waiting	Waiting, idling or defect equipment
3.	Transport	Transporting materials or products
4.	Over-processing	Taking unneeded steps to process parts
5.	Inventory	Unnecessary supplies or stock
6.	Movement	Searching, unnecessary movements
7.	Defects	Faults, scrap or bad quality
8.	Unused expertise	Not using existing expertise or knowledge

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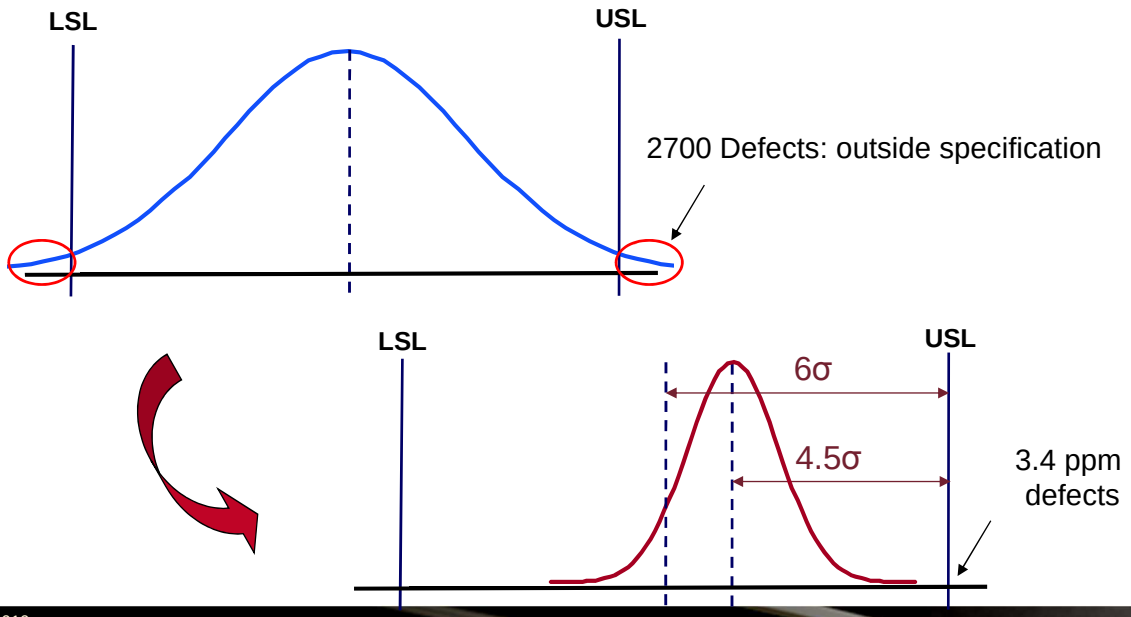
Six Sigma

Six Sigma focuses on reducing variation



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Six Sigma and Lean Applications

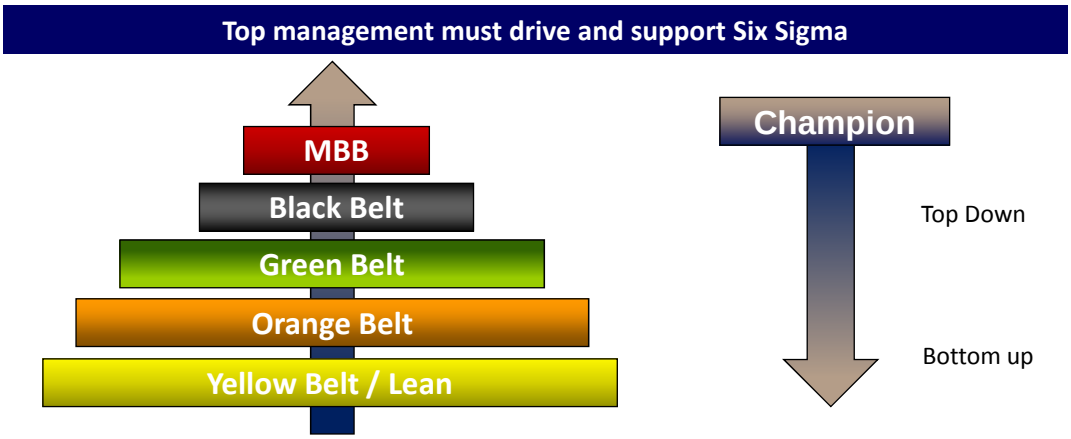
What kind of businesses are deploying Lean & Six Sigma?

- **Automotive Industry** — almost all apply Lean & Six Sigma
- **Industrial Production** — apply Lean, more and more Six Sigma
- **Banks & Insurance** — apply Lean, more and more Six Sigma
- **Service Industry** — starting to apply Lean and some Six Sigma
- **Food Industry** — apply TPM and Lean
- **Healthcare** — starting to apply Lean and some Six Sigma
- **Product Development** — Design for Six Sigma

Roles and Responsibilities

Six Sigma Organisation

- **There are different roles and responsibilities involved in the successful implementation of Six Sigma.**

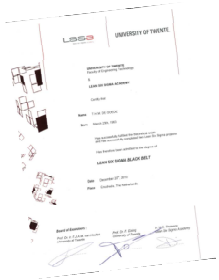


There should be a broad support system throughout the whole organization

LSSA – Lean Six Sigma Academy

(LdV TOI : 2009 – 2011)

1. **Define skill sets for each of Belt level**
2. **Bridge gap between Work floor, Engineering and Management**
3. **Create uniform Lean Six Sigma European certification**



LSSH – Lean Six Sigma for Healthcare

(LdV TOI : 2012 – 2014)

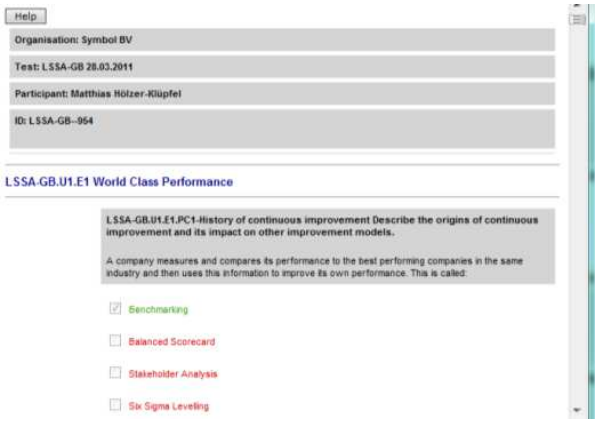
1. **Integrate process improvement in healthcare (initial VET and continuing VET)**
2. **Bridge gap between initial VET and healthcare organizations**
3. **Create uniform Lean Six Sigma European certification**

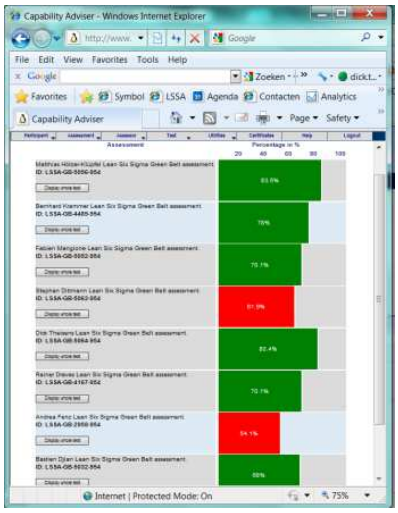
Back up

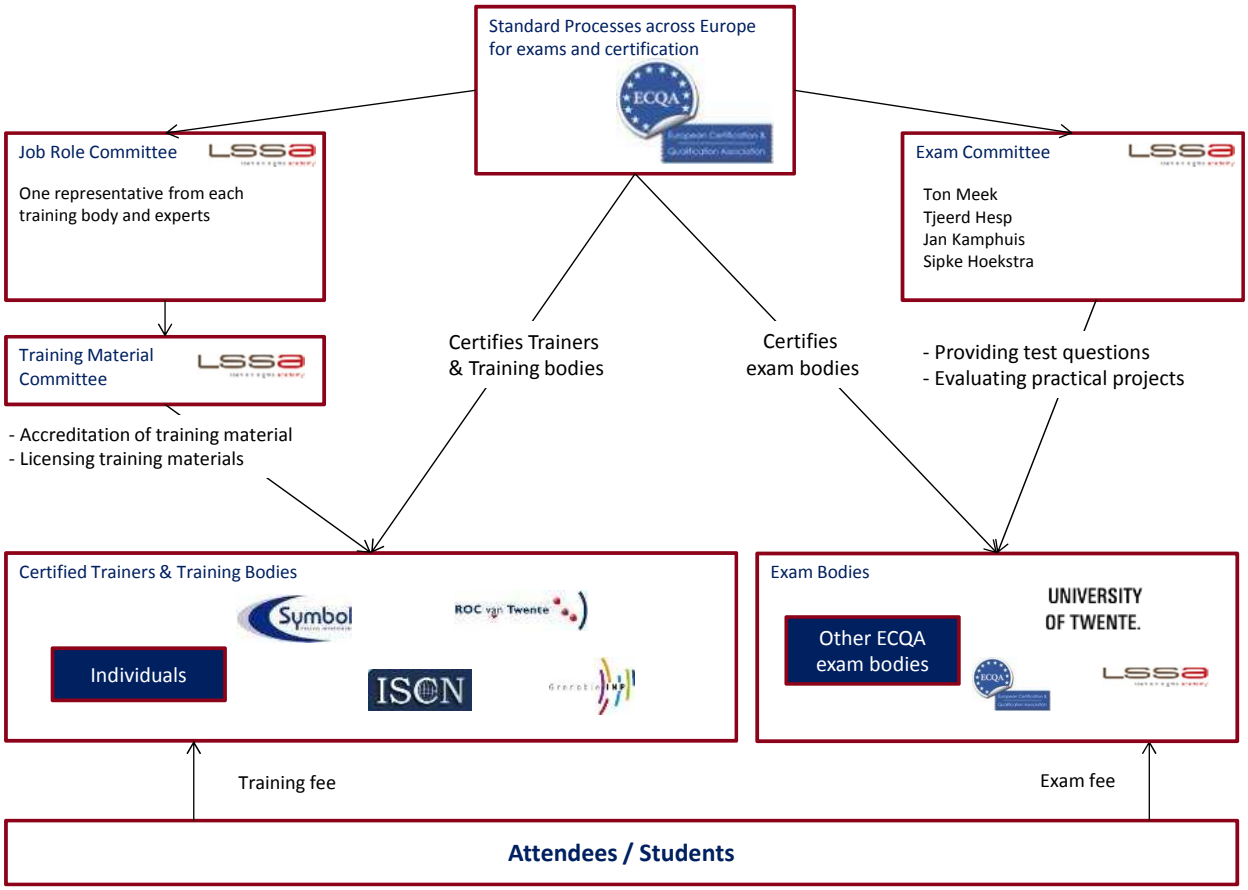
Online Exam portal

Computer based and random generated exams

- Test portals & questions pool
- Automatic correction
- Automated certification process
- Registration of participants and logging of tests







Partnership

Partnership with ECQA / LSSA

- **Join as certified individual Trainer**
  - You are an individual trainer
  - You are LSSA or ASQ certified
  - You have proven experience in Lean Six Sigma projects
- **Join as certified Training Organization**
  - You are a private company, a school or university
  - Your institute is experienced in applying Lean Six Sigma
  - You have several ASQ or LSSA certified trainers employed
- **Company training license**
  - You want to give LSS training within the company yourself
  - Your company has one or more ASQ or LSSA certified trainers employed
  - Optional: request LSSA training material in your own company style (YB Material available in five languages + online video training material)

Yellow Belt online training portal

Training content

- 23 instruction video's
- Languages : English, Dutch, French
- Exercises
- Getting in contact with trainer and other students
- . . .