v. 06/2023



Objectives of the **training**

- \star Define and deploy a Lean approach adapted to the company and its strategic objectives.
- \star Analyze the criteria for identifying simple or complex Lean projects.
- \star Carry out complex Lean projects at the Black Belt Lean level
- ★ Select and implement the right Lean tools at the Black Belt Lean level
- ★ Lead, animate and organize the approach in project mode.

Teaching methods: 100% online training. One virtual classroom/week, virtual business simulation, mini-games, videos and quizzes.

Prerequisites: 5 years of professional experience. Internet connection and compatible browser (Chrome or Firefox)

Evaluation & success : Black Belt Lean certification. Final MCQ online with CESI Certification.

Accessibility : the training is accessible to people with disabilities. Contact us so that we can adapt your training.

3 OFFERS to match your level

Complete training

2,490€ VAT excl

Inclued : Yellow Belt, Green Belt, Black Belt 7-Shapes School

Training dates on the next page

36h on **12 weeks**

For certified Yellow Belt

1,890€

Inclued : Green Belt, Black Belt 7-Shapes School

Training dates on the next page

26h on 8 weeks

For certified Green Belt



Inclued : Black Belt 7-Shapes School

Training dates on the next page

13h on 4 weeks

TEST our DEMO



TRAINING **CONTENT**

Black Belt

Week 9, Week 10 Week 11, Week 12

Green Belt

Week 5, Week 6 Week 7, Week 8

Yellow Belt

Week 1, Week 2 Week 3, Week 4

Training DATES 2023 - contact us -

In-company group

Minimum 8 people Customized dates

Contact : Maxime Desaint-Denis, +33 6 66 42 28 98



Week 1: Define your Lean project (~3 hours)

🛧 Welcome Virtual Class

- ★ Positioning Quiz
- The philosophy of Lean Management
- Manage your Lean project with the DMAIC method
- Value Added Value and Non Value Added
- Simple diagnostic tools: The 7 wastes, the Gemba Walk, the indicators, the dashboard
- Implementing the 5S
- Project management: SMART goals, project scoping, building the right team, managing risks
- ★ Quiz : The basics of Lean and the definition of a project
- ★ Virtual class : Project scoping, SMART objective, etc.

Week 2: Measure and analyze the current performance .(~3 hours)

- Make the right diagnosis
- Advanced diagnostic tools: VSM, Spaghetti Flow, Relocation, Logistician assignment
- OEE & GEE
- Others diagnostic tools : 4W1H, Ishikawa & 5 WHYs
- Kanban
- Poka Yoke
- ★ Quiz : Measure and analyze flow performance
- 🛧 Reccurent quiz
- ★ Virtual class: complements to the notions of the week

Week 3: innovating to achieve objectives (~3 hours)

- Little's Law and the Theory of Constraints
- Leading a Kaizen project and example
- Batch size and Work-In-Process (WIP)
- Application of all the notions from the beginning of the training
- Example of a performance project
- ★ Quiz : Initiate improvements projects
- \star Virtual class : use the DMAIC method

Week 4: Control that the performance is sustainable (~4 hours)

- nvolve your staff
- Creativity and constraints
- Basics of visual management
- Difficult challenges
- 🛨 🔹 Quiz : Controle and sustain performance
- ★ Yellow Belt 50 questions quiz
- ★ Virtual class : complements to the notions of the week

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Week 5 : Take into account the customer's request (~3 hours)

- Queueing Management Tool
- Customer order
- VSM information and calculations
- OEE, GEE and Takt Time calculations
- ★ Quiz : Constraints related to customer orders
- \star Quiz VSM
- ★ Virtual class : ABC/Fmr, VSM, Takt Time et cycle efficiency

Week 6: Controlling the product mix (~3 hours)

- Kanban : How it works
- SMED, TPM and EPEI
- Product mix and changeover planning
- Difficult challenges
- ★ Quiz : Tools and methods linked to product mix
- ★ Virtual class : the 7+1 questions of the VSM, Autonomous Production Unit

Week 7: Set up a Lean management and logistic rounds (~3 hours)

- Lean and logistics control tools
- Kaizen meetings
- Provision of components and quality control tools
- Challenges: find solutions to different problems in a factory
- ★ Quiz : Green Belt certification preparation
- ★ 🔹 Virtual class : Heijunka box, milkman system and kitting

Week 8: Preparation week - Green Belt certification

- Challenges: find solutions to different problems in a factory
- Revision tools: virtual classes slides, cheat sheets
- ★ Quiz : Green Belt 50 questions quiz
- ★ Virtual class : Challenge debriefing and questions/certification



Week 9: Applications of the main quality tools & line balancing (~3 hours)

- Muda, Muri and Mura
- Application of the main quality tools (Andon, Jidoka & Pokayoke)
- The Yamazumi or "balancing diagram"
- Reduce quality problems and line balancing at Takt Time
- ★ 🔹 Quiz : quality and Yamazumi
- Virtual class : Line balancing rules + examples

Week 10 : Advanced OEE & GEE and failure management (~3 hours)

- Advanced OEE & GEE
- Application of the different types of maintenance & balancing of lines
- Production standards
- FMECA
- Quiz : OEE and GEE calculations and maintenance types
- ★ Virtual class : Failure management and maintenance efficiency

Week 11: Apply the principles of just-in-time (~3 hours)

- Internal logistics: advanced operations (MADC)
- Kanban calculations and applications and EPEI method (batch size calculation)
- Future VSM (FVSM) examples and calculations
- Application: Kanban loop calculations and just-in-time implementation
- \star Quiz : Just-in-time principle and Kanban loop calculation (production and logistics)
- Virtual class : Pull flow applications

Week 12 : Line design and architecture - The continuous flow (~3 hours)

- Principles and examples of line architecture
- Production management methods (MTO, MTS, CTO,...)
- Organizational rules and production standards
- Opening on Supply chain and Lean Office / Services techniques Agile
- ★ Quiz : Black Belt certification preparation
- ★ Virtual class : debriefing and questions/certification