# The LeanActivity Factory Game

A playful Approach to Lean Management



## A modern Approach to teach Lean Management

Lean Management is relevant for every single manufacturer around the globe. But still, it is a challenge for most companies to train and maintain a certain Lean level inside the organization. The LeanActivity Games perfectly fit into this need. With up to eight four hours of gameplay, the LeanActivity Factory Game teach your organization and helps you to form a Lean mindset. The Game start with an *ordinary* production plant. Step-by-step, the team members will implement Lean principles and help to improve the assembly processes. They will learn the pro's and con's of each tool and the logic behind them. After finishing the game, the players are ready to start working on Lean principles in your organization.

## Made of Wood and PVC

### 1. The assembly Product: Pen

The game is a pen manufacturer-model. Within six assembly stations, the players have to assemble the pens according to the assembly sequence and instructions.

### 2. Material Packaging

All boxes and pallets are made of solid wood. The Euro Pallet is at a 1-to-10 scale (8 cm x 12 cm). All boxes, stations, operators or fork lifts are according to that 1-to-10-scale.

### 3. The Operators

All workers and assembly operators are made of high quality materials. When playing the game, the participants will love the look and feel, and the consistency within the entire factory model.

#### 4. Fork Lift and Route Train

A key element of Lean Management are the route trains. As part of the supply chain, they connect everything together. Both, the route train and fork lift, are made of high quality PVC material. The logistic operator perfectly fits inside the vehicle.

### 5. Game Instructions and Game Cards

The heart of the bundles are the game instructions and game cards. They guide the team and moderator during the entire game. They include assembly instructions, change requests, explanations and much more. The game follows a business case: Starting with an ordinary production and requests to decrease costs and to increase efficiency.









## Gamification = Long-term Training Success

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## Why should you use the LeanActivity Game Bundles?

People learn best by working with their hands instead of reading about it. Same implies the *Cone of Learning* by E. Dale:

Types of learning	What we remember after 2 weeks
Doing it in reality	100%
Simulation/gamification	90%
Giving a talk	70%
Participate in a discussion	70%
Seeing it done	50%
Watching movies / photos	30%
Reading about it	10%

When coaching your team with the LeanActivity game bundles, the knowledge transfer will be 10x times more intense after 14 days compared to just reading about it. This will not just save money, but time.

With up to eight players, the game bundles act as a real production site including warehousing, logistics, assembly sequences and work instructions. The product is assembled on six stations by six line operators. The players will become real factory operators on the shop floor.



**Eliminate waste:** This game forms a mindset of eliminating waste. The initial factory condition is full of waste. Let the team detect waste in the processes and find smart solution to eliminate it.



**Gamification increases acceptance across the organization:** By training Lean tools within a simulated factory model, the principles will be transferred much easier.



**Learn from mistakes:** By touching the elements with your hands, you will have a deeper relation to the factory model and processes. You will learn and understand relations and will be able to learn from mistakes to define new ways of improving.

## Gamification: Enhanced Learning Experience

LeanActivity is based on teaching the Lean management principles and tools in a playful way. By doing so, it will strengthen the team spirit, the Lean mindset and finally helps you to form a Lean culture in your company.



**Use your hands** to modify the processes of the factory model.



**Identify waste** inside the assembly processes by working as an operator.



**Apply Lean** principles and immediately see the impact.



**Use the game instructions** to play real business cases and scenarios.

Start with an inefficient assembly ...

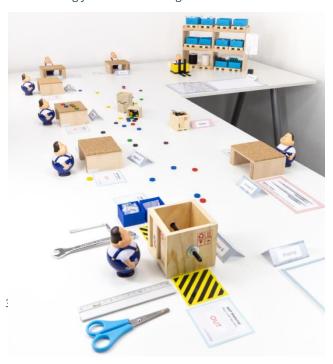
## ... and improve it round by round in teamwork.



- The game starts with an ordinary production site. Following the game instructions, you will have to assemble the pen and measure the throughput time of the process
- Step-by-step, the game cards will reveal Lean improvements like Kanban, 5S, One-piece-flow, Design for Manufacturing and much more
- After each improvement, the team will assemble pens and measures the throughput time again
- The final Lean factory layout will occupy far less space and will reduce the throughput time and level of inventory tremendously. The team will realize the impact of Lean activities in a joyful way.

## How the Game works: Round 1 - Lean Basics

1. The game is prepared on a table by the moderator before the game starts. A guide to place all items accordingly is included in the game box.



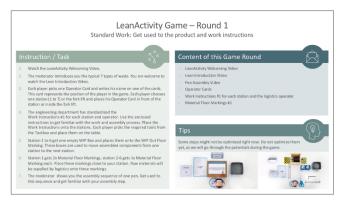
 Before the first round starts, each player will go through his work instructions. The work instructions include the assembly operation. As the factory produces a product, each station has to fulfill one assembly sten



Once the players got familiar with the assembly operation, they receive the assembly tools (clamps) to assemble the very first products.

While doing so, first causes for inefficiency within the sequence become obvious (wrong tools, missing parts, dust, ...).

To improve visualization, the team gets equipment to visualize the process and workplace. Discuss in the team in which way visualization works best for the operators.



**Game Card for Round 1:** The Game Card includes task instructions, information about contents of this game round and further tips.

Each game round comes with its dedicated instruction and materials (like shelves, floor markings, route trains, SMED equipment, ...).

4. Measure the time for assembling the products in the factory model. In each round, the team has to assemble the product according to the new improvements. You will see how the process becomes more efficient after each round.

At the end of each round, the moderator can ask the team to give feedback. This will happen in front of a flipchart (if available) or simply in a discussion. Instructions for the moderator are included in the game box.



**Game Card for Round 2:** One of the assembly stations faces high change-over times and delays the entire assembly process of his teammates. Round 2 deals with the improvement of the change-over time and comes with tools and equipment. The team performs a SMED workshop on this station. Several solutions are possible and can be developed and chosen by the team

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## **In-Game-Scenes**







**Use visualization elements** for clear processes



A ballpoint pen is installed across 7 workstations. The participants have direct contact with the game elements.



The participants will understand easily the **weaknesses of a fork lift** and the **benefits of Lean logistics** by playing the game.

Gamification

Coaching Success Lean Understanding Lean Acceptance Efficiency

## The LeanActivity Online Platform supports your Workshop





#### **Game Instructions & Videos:**

You can find all game instructions in digital form on the LeanActivity Online Platform. In addition, in each round you will find introductory and explanatory videos that you can show to the participants. Whether on a laptop, tablet or projector.



### Train-the-Trainer Videos:

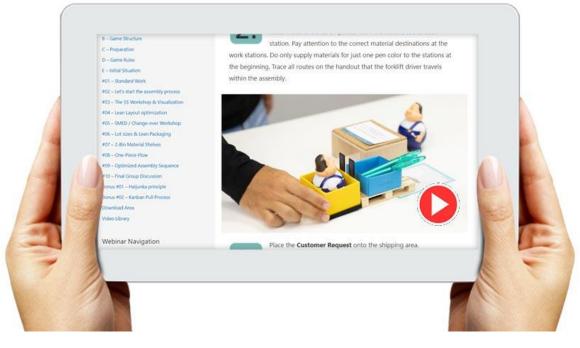
All game rounds were exemplarily played by us. The moderator can watch the gameplay videos on demand in order to get a better understanding of the game.

#### Download Area:

All playing card elements can be printed out if required.

### Access to the LeanAcademy:

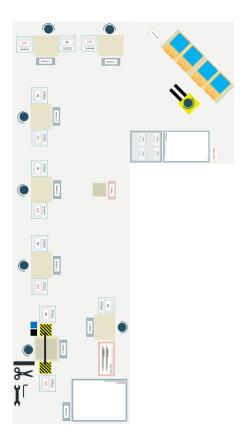
The enterprise solution also includes access to the LeanAcademy. Perfect for moderators who want to build up or refresh further lean knowledge.



## Play the Factory Game in a room or online in Webinars

### Face-to-Face (Classroom):

Play the game in full with up to 8 active participants This is where the greatest learning successes are achieved

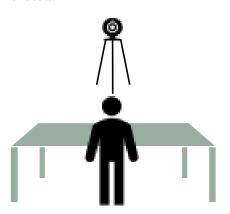






### Online (Webinar):

- Set up your camera and train your participants using the game
- The participants follow the game and are interactively involved in the game with handouts.









All instructions & handouts are available on the Online Platform

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