

Globally Recognized Certificate Program on

Toyota Production System & Lean Management

By Toyota Engineering Corporation Japan



Toyota Production System (TPS), widely known as Lean Management is considered as one of the Most Successful Manufacturing Management Methodologies in the World

TPS Practitioner Road Map



TPS - Grade I

Substantial contribution to the industry by implementing Total TPS; evaluated by senior TPS senseis at TEC



TPS – Grade II

Practical Implementation of Process Kaizens, Logistics Kaizen or Quality Kaizen and achieve a significant improvement in the business



Japan Study Tour

(Optional) Visit world class lean TPS manufacturing facilities and attend TPS training workshops by TEC



TPS – Grade III

Deeply explore the Total-TPS way of thinking, Kaizen Methodologies & Daily Management through application capability of Process Kaizens, Logistics Kaizens, Quality Kaizens, Equipment Kaizens

START



TPS – Grade IV

Understand the broader perspective of Total-TPS and practice.

CLE Offers You a Lifetime Opportunity to

Learn from the Creators of Toyota Production System & Lean Management

In Collaboration with Toyota Engineering Corporation
Japan

Koichi Kai

40 years of experience in
TPS and Gemba Kaizen
Expert



Nakashima Makamori

Former Senior Manager at
Toyota Motor Corporation



Ogiwara Mitsuhiro

37 Years Senior Management
Experience at Toyota Motor
Corporation

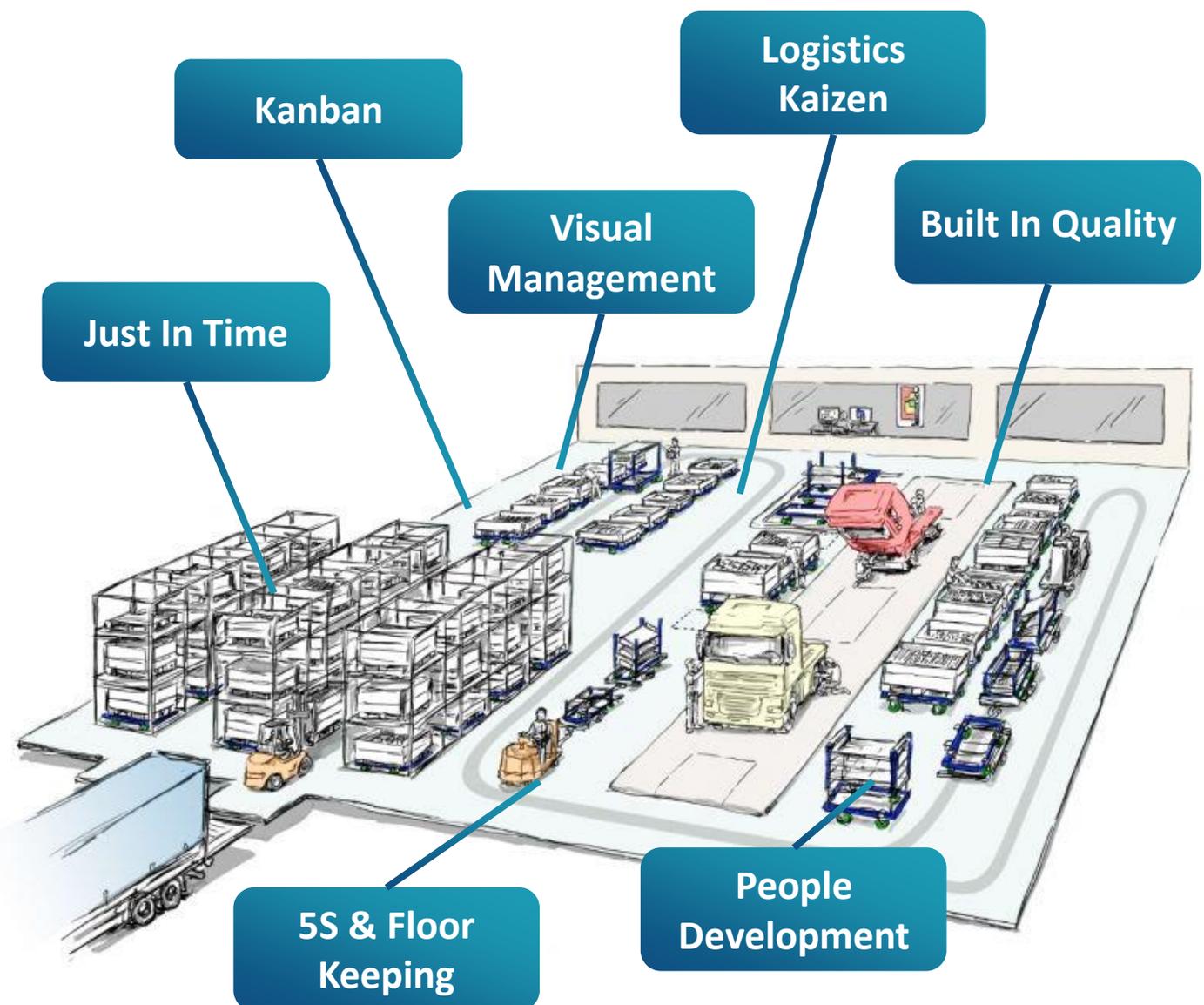


Toshio Horikiri

Chairman of Toyota
Engineering Corporation



Comprehensive guidance on setting up a TPS (lean) manufacturing process



Up to date content with simpler illustrations

③ Kanban management

◆ Planning of Kanban

Decide Kanban Cycle

A: Cycle date

B: The number of delivery cycle per day

C: Conveyance interval

(Ex.)

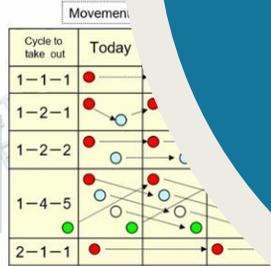
A - B - C

1 - 4 - 5

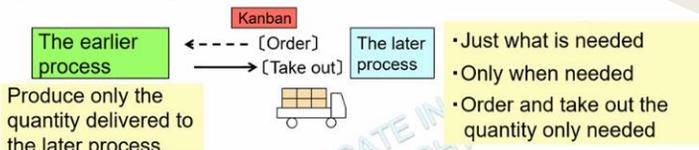
• Cycle of one day

Delivery Frequency

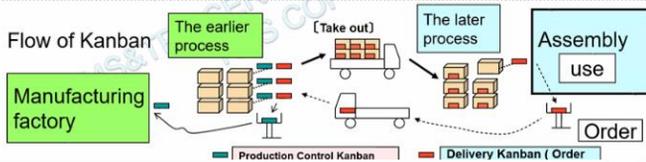
How many times later the original conveyance after ordering (Kanban)



3. Kanban System

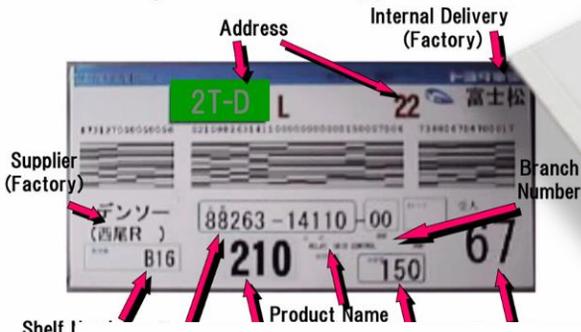


'Kanban' is instruction to order production and delivery, and tool to control inventory.



<Reference>

Delivering KANBAN of Supplier Parts



<Reference>

Kanban (Ex.) : Purchase parts

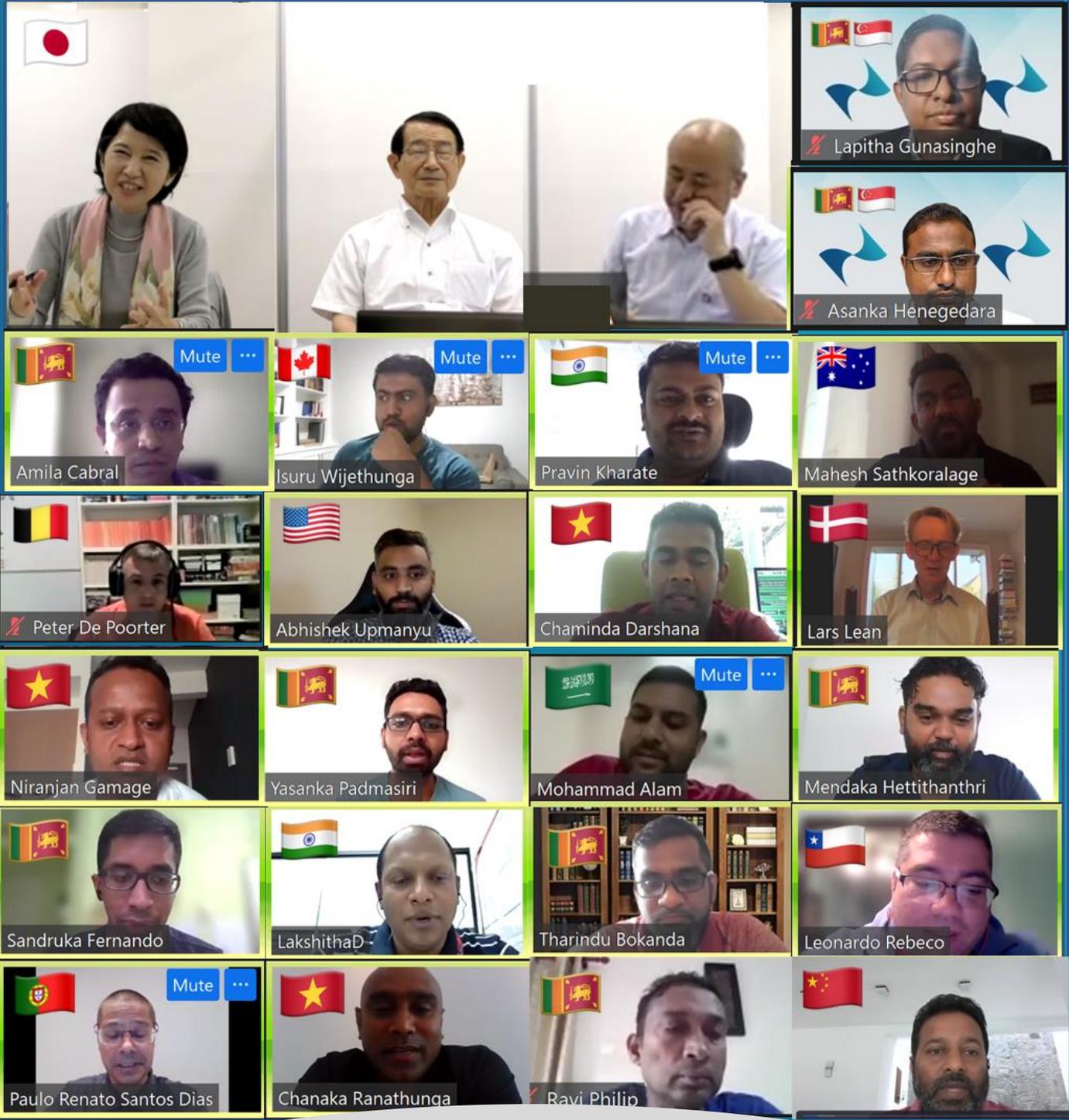


Kanban

Total TPS Grade IV Book (Printed Version)

Will be couriered to your door-step





**Learn, discuss & get
the right answers from
the Gurus**

SAMPLE

認定番号
Registration number
2021/016
認定日
Registration date
2021/01/16
検定実施日
Test date

社団法人 TMS&TPS 検定協会
TMS&TPS Certificate Institution
JAPAN

TPS 検定 4 級認定書

TPS(Toyota Production System) Certificate for grade 4

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貴方は TPS 検定において評価基準を満たしましたので頭書の資格を有する者として認定いたします

You have successfully completed the TPS Certification for grade 4 assessment

TPS grade4

- 1.TPS Fundamental knowledge
- 2.Process Improvement / Process Kaizen
- 3.Logistics Improvement / Logistics Kaizen
- 4.Quality Improvement / Quality Kaizen



Authorized by **Toshio Horikiri**
TMS&TPS Certificate Institution
5-45-1 Nagascho Showaka Nagoya Aichi Japan

Earn a
Globally
Recognized
Certificate

TPS Grade IV

The Certificate is issued by
TMS TPS Certification
Institute (Certification body
of Toyota Engineering
Corporation) Japan

Program Content

TPS Grade IV

1. Overview of TPS certificate Institute
2. History of Toyota Motor Corporation
3. Origin of Toyota Production System (TPS)
 - a. Spirit of the founders
 - b. Start of TPS
 - c. Features of TPS
4. Total- TPS (Current TPS)
 - a. Total TPS?
 - b. The expansion of TPS to Total TPS
 - c. Revolution of Total TPS
 - d. Two pillars of TPS
 - i. Just in Time
 - ii. Jidoka (Automation)
5. Implantation of Total TPS
 - a. Revitalizing work place
 - i. QC circle activity
 - ii. Multiskilled development (job rotation)
 - iii. Creative idea suggestion system
 - iv. Safety and health in workplace
 - v. Equipment maintenance
 - vi. Product quality
 - vii. Production division council
 - viii. Roles of supervisors
 - ix. Human resources development
 - x. Enhancement of welfare facility
 - b. Participation and improvement of workplace
 - i. 5S (4S and 1S) in workplace
 - ii. Visual control in the workplace
 1. Performance analysis board
 2. Phase maker
 3. Andon
 4. Quality control board
 5. Line with fix position stopping system
 6. Stop control

- iii. Preparation of operation standards
 1. Standardized production capacity sheet
 2. Work instruction sheet
 3. Work sequence sheet
 4. Standardized worksheet
 5. Standardized work combination table
 6. Yamazumi chart
 7. Quality check standards
- c. Operation Kaizen
 - i. Establishment of standardized work
 1. Three prerequisites of standardized work
 2. Three factors of standardized work
 3. Observance of standardized work
 - ii. Elimination of MUDA
 1. The actual conditions of Gemba
 2. Seven MUDA
 3. How to identify MUDA
 - iii. Reallocation of work
 - iv. Productivity (Work efficiency)
 1. Efficiency and productivity
 2. Operating rate and operational activity
 3. True efficiency and apparent efficiently
 4. Flexible man power line than man power saving
 - v. Actual kaizen in process (lead-time reduction)
 1. Point of observation in kaizen in process
 2. Leadtime reduction
 3. Kaizen in production system
 4. Kaizen in production system (floor and layout)
 5. How to conduct kaizen
- d. Logistic Kaizen

Program Content TPS Grade IV

i. Part receiving

1. Frequent conveyers
2. Mixed load conveyers (milk run)

3. Sequential part withdrawal (Junbiki)

4. Part withdrawal based on body production start

ii. Material handling in plant

1. Sequential part loading (Jundate)
2. Grouping delivery
3. On call Andon system
4. Grouping small parts
5. Container less floor (Minomi)
6. Fixed course pickup system

iii. Kanban system

1. Type of Kanban
2. Rules of Kanban adaption
3. Kanban management
4. Collection of Kanban

e. Equipment Kaizen

i. 5S of equipment

ii. Equipment maintenance

1. Autonomous maintenance by production department
2. Specialized maintenance by maintenance department

iii. Reduction of equipment set up time

f. Quality Kaizen

i. Quality built in process

1. Base of quality assurance
2. Do not flow or produce defective parts

ii. Development of quality assurance mechanism

1. Maintenance of operational standards
2. Ensure process capacity of equipment
3. Poke-yoke
4. Visualization of quality check results
5. Change point management
6. Process audit, product audit
7. Quality information corner
8. Quality meeting

iii. QC network

iv. Quality assurance in process

v. Quality assurance in purchasing parts

g. Advanced Kaizen (New Product Introduction)

i. SE (Simultaneous Engineering Activity)

ii. Production Preparation activity

iii. Manufacturing preparation

iv. Quality assurance in preparation activity

v. Promotion of advanced kaizen by Oobeya system

6. Evaluation of company strength and TMS

About Us



Center for Lean Excellence

One-Stop Training & Consulting Provider for Lean Change Management & Process Innovation related solutions.



ISO 18404: 2015
Certified Company



豊田エンジニアリング株式会社
Toyota Engineering Corporation



社団法人 TMS & TPS 検定協会
TMS & TPS Certificate Institution

Corporate Partner, Member of Toyota
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