

Checklist S

Award for World-class TPM Achievement

Categories		Check Points
1	TPM Policies and Objectives	As premises for the fulfillment of corporate social responsibility (CSR), the corporate vision for business growth is defined and open management takes place based on the roadmap. Fusing market needs and corporate seeds, creative world-class TPM activities take place giving birth to innovative products and manufacturing methods.
2	Focused Improvement	Company-wide backbone technologies such as product quality improvement, reliable equipment, process streamlining, ease of operation, production efficiency, speeding up of information processing, and efficient distribution are being theoretically systemized and utilized in relation to the flow of funds, materials, and information. Processing and reaction phenomena, the core of production, are being visualized and monitored by visual images, sensors, and simulations, aiming to enhance product quality. An innovative plant and production system that can flexibly respond to new product manufacturing and small-volume production of multiple items are established. Profit planning is established with product value enhancement and reduction of prime cost. Review of loss is being performed regularly and zero-loss activity has been established.
3	Autonomous Maintenance	Autonomous plant maintenance is evolving into autonomous production maintenance, and into autonomous production management, thereafter developing into company-wide autonomous management. Systemized maintenance training has been established to gain skills, and achievements have been made. Innovative activities and suggested activities directly related to company management are producing achievements. A friendly and comfortable workplace exists. Autonomous maintenance is taking place with commitment and a sense of ownership.
4	Planned Maintenance	The relationship between facility function and component parts is systematically understood, leading to effective weakness improvement, the specification of sections prone to produce defects, and the establishment of a maintenance time cycle. Deterioration of the facility is categorized as regular and irregular deterioration based on facility structure and load history, for which measures are taken to prevent breakdown and accidents. Measurement and sensor technology for facility analysis is being upgraded, and the maintenance period, cycle, and area are determined with a high degree of accuracy. With the improvement in the planned maintenance technology, measures to prevent recurring breakdown are established and the facility is improved for ease of autonomous maintenance. The system and concept of optimal maintenance is completed in comprehensive consideration of the 4M requirements. Facility maintenance is systemized and implemented from the perspective of the production system.
5	Quality Maintenance	Unified control of materials, purchasing, specifications, design, manufacturing, and distribution data has been developed, with which quality can be guaranteed, and has become a source of pride for the company in its industry. A system is established to swiftly obtain information on defective products and immediately utilize the information in the production process and company-wide operations. Quality maintenance is implemented for new product development. Zero customer complaints and zero defects are standardized and are being achieved. The structure is systemized to avoid defects and, at the same time, continuous feedback concerning quality improvement is leading to learning opportunities.
6	Early Management	New product development and technological development are taking place through strategic alliances. Internal and external technologies and market information are being managed in unification and utilized in the establishment of development themes for products and equipment. Development in consideration of the product lifecycle management (PLM) of products and equipment is taking place and a management system for the development is established. A cross-functional system is organized for product and equipment development by planning, designing, manufacturing, distribution, and marketing departments. A mutual relationship between product development and equipment development is fully considered. There are many cases that show examples of user-friendly and environmentally gentle product design and development. Innovative products that can be boosted in the industry are being developed.
7	Education and Training	The thinking that a company stands on its people is being established and implemented. An ideal of training has been developed individually among employees with different jobs and positions, and training is provided systematically. Training is provided to foster human resources that can comprehensively manage cross-functional organization for development. A training program is available for young and mid-level employees aiming to foster managers with an understanding of management, sales, finance, development, technology, and skills. Systemization and technological improvement of skilled workers is being done through cooperation from individuals exceeding the pillars of TPM activities. TPM training is provided at cooperative companies and other plants/factories, leading them to the level for assessment. The number of certified maintenance specialists (highest level) is increasing. The results of TPM implementation are periodically presented and experiences are exchanged with other plants for the purpose of mutual development.
8	Improvement of the Administrative and Indirect Departments	A consolidated system is established ahead of the industry that organizes management resources (people, things, funds, information). Major operation processes are defined and continued process improvement is taking place with the operation inventory. An SCM system is established that is consistent in terms of procurement, manufacturing, sales, and distribution. Reform of the operation content is performed appropriately. Use of a comprehensive system is leading to a stronger relationship with related and cooperating companies. Expansion in ROA is further progressing with downsizing. The workplace has become kind and pleasant to its employees. Considerations are made for part-time and senior workers, increasing the pleasantness of the workplace. Evaluation is performed on 4 levels of satisfaction (4S: CS, ES, SS, GS) and specific activities are deployed.
9	Safety, Health, and Environment	Sufficient consideration is given to health and safety issues. Physically demanding labor has been automated and a user-friendly assembly line is being structured. Basic thinking on environmental conservation is clarified and regional environment assessment is being performed for new business development. In addition to the realization of a safe and sound workplace, contributions are made for the realization of a safe and sound community. Steady reform is taking place for the realization of a resource-recycling production factory. Exchange activities take place with the local community.
10	Effects and Evaluation of TPM	TPM activities are in place with a goal-oriented emphasis.