



SCORE China

A case study from
Tebian Electric
Apparatus Stock Co.

HAZARD AND RISK REDUCTION LEADS TO ENHANCED PRODUCTIVITY AT TBEA CHINA

COMPANY PROFILE

SME:	Tebian Electric Apparatus Stock Co., Ltd. (TBEA)
Location:	Jinyang District, Deyang, Sichuan Province
Staff:	900 (15% women)
Established:	1998
Product:	Electrical machinery and apparatus
Destination:	State Grid of China

“SCORE Training improved the sense of ownership and accomplishment amongst staff, helped to configure corporate resources in a more reasonable manner, and improved the competitiveness, effectiveness and operational management function of the enterprise in a sustainable manner.”

Mr. Shang Lunsheng,
Manager of Security
Department, TBEA
Deyang Cable Co., Ltd



How did they do it?

In 2014 TBEA participated in SCORE Training Module 5: Safety and Health at Work: A platform for productivity. Following this, managers and employees worked collaboratively to identify potential workplace hazards and risks inside the factory.

TBEA established an Enterprise Improvement Team (EIT) in order to ascertain which key areas of improvement should be addressed. The team, comprised of 6 managers and 4 workers, identified critical issues related to workplace safety and health, and consulted staff for improvement ideas that could later be realized.

Several practical measures were implemented as a result of the collaborative effort to improve workplace health and reduce safety risks – in order to limit injuries and expenses and increase productivity. This included:

- The introduction of modified machines which include protective shields for hazard and risk reduction;
- Replacement of old equipment to ensure company-wide ventilation and absorption of dust;
- A target for 100% inclusion of Material Safety Data Sheets (MSDS) on chemicals used (currently 65% up from 40% before training);
- Cleaner and tidier storage areas to prevent accidents and improve work efficiency;
- An adjusted workflow to limit work intensity and reduce wasted time;
- Improved hygiene in employee washrooms' for better staff health and welfare;
- Where risks could not be eliminated, workers' were provided with safety equipment such as face and eye masks;
- An occupational safety and health (OSH) policy was put in place and into practice.

TBEA China was able to undertake SCORE Training thanks to the State Administration of Work Safety (SAWS), an on-going implementation partner.

The key results in data

Each day, workers spent an average of 40 minutes in each shift, transporting semi-finished products across a 25m distance - which required 3 men - to the next work station. After revision, a new process which shortened the distance to 10m and only required 2 workers, was introduced to **save energy and reduce the time exhausted to 10 minutes per shift.**

A similar reduction in work intensity and time was made to the manual transportation of copper strips – an average of 10-15 per worker, per day – when a lifting device was installed. **Time saved was a commendable 50%.**

✓ Before



Workers spent unnecessary amounts of time each shift to transport products across the factory floor by hand

✓ After



A new machine allows products to be transported much faster and with the support of less workers – also reducing risk of injury

A culture change that supports growth

Today, through systematic monitoring of enterprise progress - using indicators set out in an OSH management system, TBEA have been able to recognise key improvements to staff welfare, motivation and productivity.

During the initial 4 months following the completion of Module 5, TBEA's EIT received 29 improvement suggestions from eager staff, implementing 15 Enterprise Improvement Projects over the same period. The EIT now meets up to 3 times per month to discuss future enterprise development.

For more information on the SCORE Programme or SCORE Training contact:

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