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**NATIONAL STANDARD OF THE
PEOPLE'S REPUBLIC OF CHINA**

GB/T 23718.1-2009

**Condition monitoring and diagnostics of machines -- Requirements for
training and certification of personnel -- Part 1: Requirements for
certifying bodies and the certification process**

机器状态监测与诊断 人员培训与认证的要求 第1部分：对认证机构和认证过程的要求

(English Translation)

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Foreword

GB/T 23718 "machine condition monitoring and diagnostics of personnel training and certification requirements," consists of the following components.

- Part 1. Process of certification bodies and certification requirements;
- Part 2. Vibration condition monitoring and diagnostics;
- Part 3. training institutions and the requirements of the training process;
- Part 4. on-site lubrication analysis;
- Part 5. Lubrication Laboratory Technician/Analyst;
- Part 6. Acoustic emission;
- Part 7. Thermography;
- Part 8. Ultrasound;
- Part 9. condition monitoring expert.

This part of GB/T 23718 Part 1.

This section identical with ISO 18436-1:2004 "machine condition monitoring and diagnostics training and certification requirements - Part 1.

Certification bodies and the certification process "(in English) and errata ISO 18436-1:2004/Cor1.2006.

This section is equivalent translation ISO 18436-1:2004, including Corrigendum ISO 18436-1:2004/Cor1.2006.

For ease of use, the editorial content part as follows.

- With "this Part" instead of "international standard ISO 18436 this section";
- Remove the foreword to international standards;
- To ISO 18436-1:2004 references other international standards, have been adopted as the equivalent of the standard with our standards in place for Corresponding to international standards, it is not identical with direct reference to international standards for our standards;
- Errata according to ISO 18436-1:2004/Cor1.2006 modified its related content.

This part of the Appendix A and Appendix B are normative appendix.

This part of the National mechanical vibration, shock and condition monitoring Standardization Technical Committee (SAC/TC53) and focal points.

This section is responsible for drafting unit. Zhengzhou Machinery Research Institute.

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Introduction

Machine condition monitoring and diagnostics is an integral part of an effective maintenance program. Non-intrusive technology for machine condition monitoring and fault diagnosis Surgery, comprising. a vibration, infrared thermography, lubrication, oil analysis, acoustic analysis, and current and ultrasonic analysis. In many cases, these techniques may be as a complementary state analysis tools. Measurement and data analysis skills and expertise professionals of these technologies should be effective with a decisive role.

This section provides a non-intrusive machine condition monitoring, diagnostics and repair of technical aspects of certification agencies. This section includes General requirements for certification body personnel. Specific requirements for condition monitoring and diagnostic personnel to follow-up on the part of this series of standards.

GB/T 23718.1-2009/ISO 18436-1:2004 Machine Condition Monitoring and Diagnosis Personnel training and certification requirements Part 1. The process of certification bodies and certification requirements

1 Scope

This section GB/T 23718 requirements for machinery condition monitoring, identify machine faults and recommends corrective action personnel certification bodies Requirements, provides condition monitoring and diagnostic personnel certification program. These requirements are in GB/T 27024-2004/ISO/IEC 17024:2003 Supplementary requirements.

Note: The subsequent sections related to specific technologies to be developed.

2 Normative references

The following documents contain provisions which, through reference GB/T 23718 in this section constitute provisions of this section. For dated reference documents Member, all subsequent amendments (not including errata content) or revisions do not apply to this section, however, encouraged to reach under this section Parties to research agreement to use the latest versions of these documents. For undated reference documents, the latest versions apply to this section.

GB/T 27024-2004 Conformity assessment personnel certification bodies General requirements (ISO/IEC 17024:2003, IDT)

3 Terms and Definitions

In GB/T 27024 and identified the following terms and definitions apply to this section.

It confirms in writing a person to meet the relevant parts of this series of standards prescribed in respect of any specific technical requirements for proof.

In line with GB/T 27024 certification agencies require organizations.

Certification body authorized by the central administration and supervision, responsible for organizing the written exam or practice exam.

Supervised written examinations staff, but does not evaluate the candidate's ability.

Guide certified by the technical aspects of the work of the Committee designated certification agencies.

Holder of a certificate is not within the validity period in the relevant area of responsibility certified practice.

a) continuously over 365 days;

The total time b) two or more periods of validity of more than 2/5 of the total certified.

GB/T 23718.1-2009/ISO 18436-1:2004