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# KOLAS UPDATE

## Korea Laboratory Accreditation Scheme

Korean Agency for Technology & Standards, Ministry of Knowledge Economy

June 2011 / Issue 8

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**ILAC**  
International Laboratory  
Accreditation Cooperation



**KOLAS**  
Korea Laboratory  
Accreditation Scheme

### KOLAS UPDATE

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### World Accreditation Day 2011

ILAC/IAF designated the day of June 9 every year as "World Accreditation Day" to promulgate the importance of the accreditation scheme and improve the understanding of the general public according to the JGA Sydney Resolution 6(International Accreditation Day) in 2007. This "World Accreditation Day" became the fourth this year.



### Conclusion of MoU on Business Partnership with KOLAS and Defense Acquisition Program Administration

KOLAS concluded a MoU on business partnership with Defense Acquisition Program Administration(DAPA) on June 3, 2011 so that laboratories who will take charge in assessing products of the Korean defense industry can establish the internationally recognized accreditation system at an early stage.



### The 27th APLAC MRA Council Meeting in New Zealand

The 27th APLAC MRA Council meeting was held in Auckland, New Zealand between May 11 and May 12, 2011. About 40 representatives from 25 accreditation bodies in 20 economies participated in the meeting, and KOLAS staffs including KOLAS Quality Manager were in attendance.

## NEWS & INFORMATION

### < Notices regarding KOLAS and current status of foreign regulators' requirements >

Notices for the management of KOLAS accredited laboratories and information related to foreign regulators' criteria were announced on KOLAS homepage. Relevant organizations are expected to refer to those.

Please refer to 'KOLAS NEWS/Notices' for related details.



## I . KOLAS Trends

### ■ World Accreditation Day 2011

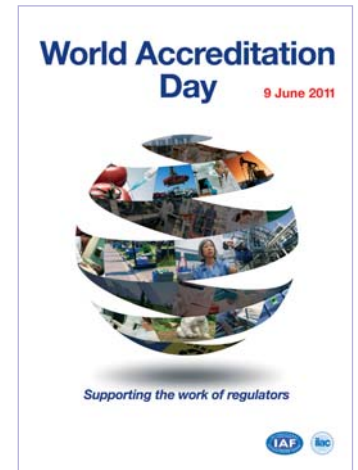
ILAC/IAF designated the day of June 9 every year as “World Accreditation Day” to promulgate the importance of the accreditation scheme and improve the understanding of the general public according to the JGA Sydney Resolution 6(International Accreditation Day) in 2007. This “World Accreditation Day” became the fourth this year.

\* *ILAC : International Laboratory Accreditation Cooperation*

\* *IAF : International Accreditation Forum*

ILAC/IAF has selected the official theme to celebrate “World Accreditation Day” every year and this year’s theme is focused on how accreditation is used to support the work of Regulators.

2008	Trust
2009	Competence
2010	Global Acceptance
2011	Supporting the work of Regulators



<The Poster of World Accreditation Day>

\* Accreditation provides confidence in the competence and integrity of conformity assessment activities that can be used to support the implementation of government policies and regulations that impact on health, welfare, security and the environment.

\* Government departments and regulatory authorities may specify in their public policies, government specifications and regulations that accredited bodies be used, and so gain confidence that competent bodies have been used to determine compliance with laws, regulations and specifications.

KATS (Korean Agency for Technology and Standards) held the leaders’ meeting and seminar to promulgate the importance, effects, and international trends of the accreditation scheme and to celebrate “World Accreditation Day 2011” between June 8 and 9, 2011.

\*: *Extracted from ILAC/IAF Chairs’ joint announcement.*

### ■ Commemorative Seminar for World Accreditation Day 2011

KATS held a commemorative seminar on June 9, 2011 with 400 domestic experts in conformity assessment, including corporate personnel, KOLAS-accredited laboratories, interested parties, and assessors with the official theme, 「Supporting the work of Regulators」 to celebrate “World Accreditation Day 2011” designated by ILAC/IAF.

An award ceremony was conducted for 3 organizations and 13 individuals who have contributed to the testing fields among KOLAS-accredited laboratories and personnel, including Korean Apparel Testing and Research Institute(KATRI) before a commemorative seminar.

The direction and importance of Korean accreditation scheme were emphasized through presentations such as “Plan for Strengthening the competitiveness in the testing & certification industry in Korea”, “Competence Improvement of ISO Management System Certification”, and “Trends in the Management of the Global Accreditation System” to enhance the reliability of the local accreditation scheme.

*It is available to download seminar materials at 『NEWS and Notices No. 562』 on the KOLAS homepage (<http://www.kolas.go.kr>).*



## ■ Conclusion of MoU on Business Partnership with KOLAS and Defense Acquisition Program Administration

KOLAS concluded a MoU on business partnership with Defense Acquisition Program Administration(DAPA) on June 3, 2011 so that laboratories who will take charge in assessing products of the Korean defense industry can establish the internationally recognized accreditation system at an early stage.

This MoU includes the development of testing requirements for performance and safety verification related to a single type, parts, and weapon system, and reliable management of testing laboratories.

Defense Acquisition Program Administration(DAPA) intends to designate and manage KOLAS-accredited laboratories as testing laboratories in the defense industry-related field to secure credibility and safety of the test system by introducing international weapons test system from now on.

Two parties agreed to strengthen performance and safety of relevant products and weapons system at the international level through the continuous development of assessment standards by jointly establishing and operating "Council for developing Works of Testing & Assessment in Defense Industry".

KOLAS and DAPA will jointly establish the systematic management system of laboratories by quickly introducing the KOLAS accreditation scheme according to international standard (ISO/IEC 17025) which international recognition and reliability are ensured in relation to the Korean defense industry through this business partnership.



## ■ KOLAS Accreditation for Laboratories to the U.S. EPA ENERGY STAR Programs

U.S. EPA had ever announced the Energy Star product certification process that all products seeking the Energy Star label to be tested in laboratories approved by EPA, and manufacturers should participate in an ongoing verification testing program to promote confidence in the ENERGY STAR Program in April, 2010.

It is required that accreditation bodies in ILAC-MRA signatories should be recognized by EPA for the ENERGY STAR Laboratory Recognition Program, and EPA-recognized laboratories can offer testing services concerning the ENERGY STAR Program.

KOLAS, a U.S. EPA-recognized accreditation body, had accredited five laboratories for the ENERGY STAR programs since February 2011.

Three laboratories among KOLAS-accredited laboratories were recognized by EPA to the following programs.

Classification	Name of Laboratory	ENERGY STAR Program
KOLAS-Accredited Laboratory	LG Electronics Inc., Digital Media Standards Laboratory	Audio/Video, Set-Top Boxes, Televisions, Computers, Displays
	SAMSUNG LED Co., Ltd.	IES LM-79-08, IES LM-80-08
EPA-recognized Laboratory	Korea Testing and Research Institute Yong-in	Audio/Video, Displays, Imaging Equipment, Integral LED Lamps, Luminaires, Set-Top Boxes, Televisions
	Intertek ETL SEMKO Korea Ltd.	Audio/Video, Battery Chargers, Central ACs and Air-Source Heat Pumps, Clothes Washers, Computers, Imaging Equipment, Refrigerators & Freezers, Room Air Conditioners, Set-Top Boxes, Telephony, Water Coolers
	Digital EMC	Audio/Video, Computers, Displays, Imaging Equipment, Set-Top Boxes, Televisions

KOLAS plans to support Korean trade with the United States of energy-efficient products continuously to achieve the ENERGY STAR Mark of Korean corporation.

## ■ Revision of KOLAS Guidelines

KOLAS announced the revision related to three operational regulations such as “Operational Regulations for Accreditation of Calibration Laboratories” on March 28, 2011 and completed prior announcement for revision regarding 5 types of KOLAS guidelines on June 8, 2011.

Classification	Document No.	Name of Document
Revision	KOLAS-R-001	Operational Regulations for Accreditation of Calibration Laboratories
	KOLAS-R-002	Operational Regulations for Accreditation of Testing laboratories and Inspection Bodies
	KOLAS-R-004	Regulations on the Application for Accreditation and Conduct of Assessment
Prior Announcement of Revision	KOLAS-R-001	Operational Regulations for Accreditation of Calibration Laboratories
	KOLAS-R-004	Regulations on the Application for Accreditation and Conduct of Assessment
	KOLAS-SR-008	Supplementary Requirements for Accreditation(Laboratories performing Field Calibration)
	KOLAS-G-004	Guidelines for Calculating, Maintaining and Managing Best Measurement Capability(BMC) Status
	KOLAS-G-009	KS A ISO/IEC 17025 Interpretation Guides

This revision process was focused on clarifying the detailed requirements by adding terms of definitions, name changes, and words actualization, and preparing the foundation for effective process using e-KOLAS system.

KOLAS explained revised contents of KOLAS guidelines to each accredited laboratory and asked to observed them through refresher training courses.

*It is available to download KOLAS guidelines and the details from 『INFORMATION Notice/Announcement』, KOLAS homepage (<http://www.kolas.go.kr>).*

## ■ Progress Status of Proficiency Testing Program in the First Half Year of 2011

A total of 19 proficiency tests such as 8 in testing and 11 in calibration was conducted in the first half year of 2011 according to the Article 27 of KOLAS-R-001:2011 and Article 26 of KOLAS-R-002:2011 regarding proficiency testing. The results and progress status are as follows:

No.	Code	Name of Program	Progress status
	PM 2011-02	Surface Roughness Specimens	In progress
2	PM 2011-03	Square Measure	In progress
3	PM 2011-04	Electrical Torque Meter	In progress
4	PM 2011-05	Straight Edge	In progress
5	PM 2011-06	Push-pull gauge	In progress
6	PM 2011-07	Pressure converter	In progress
7	PM 2011-08	Vibrometer Straightening Machine	In progress
8	PM 2011-09	Type N termination/Mismatching	In progress
9	PM 2011-10	Balance Weight	In progress
10	PM 2011-11	Effective Value Voltmeter	In progress
11	PM 2011-12	Composite Corrugated Generator	In progress
12	PT 2011-01	Flash point and Sulfur Analysis for Petroleum(Diesel)	Completed
13	PT 2011-02	Salt Spray Test	In progress
14	PT 2011-03	Lead, Cadmium, Mercury Analysis for Acrylonitrile Butadiene Styrene Copolymer	In progress
15	PT 2011-04	Safety Test of Electric Fan	In progress
16	PT 2011-05	Mechanical Test for Textile	In progress
17	PT 2011-07	Mercury Analysis for Rice Flour	In progress
18	PT 2011-08	Electromagnetic Compatibility(CISPR 16-2-1, 16-2-3) test	In progress
19	PT 2011-09	Anion Analysis in Water(Sulfateion & Nitrate-nitrogen ion)	In progress



## II. International Trends

### I. KOLAS Activities

#### ■ The 27th APLAC MRA Council Meeting in New Zealand

The 27th APLAC MRA Council meeting was held in Auckland, New Zealand between May 11 and May 12, 2011. About 40 representatives from 25 accreditation bodies in 20 economies participated in the meeting, and KOLAS staffs including KOLAS Quality Manager were in attendance.

Discussion about the expansion of APLAC MRA for accreditation of PT providers was made at this meeting. APLAC MRA Council discussed revising APLAC guidelines including APLAC MR 001 and MR 004 by adding relevant provisions to include and expand proficiency testing providers into the accreditation scope of APLAC MRA.



The 28th APLAC MRA meeting is planned to be held in Manila, Philippines between September 14 and 15 in 2011.

### 2. International Societies

#### ■ ILAC (International Laboratory Accreditation Cooperation)

##### ► Newly Joined

OLAS	Office Luxembourgeois d'Accreditation et de Surveillance(Luxembourg), Joined as a ILAC-MRA signatory in Testing
YAS	Yemen Standardization Metrology and Quality Control Organization, Yemen Accreditation System(Yemen), Joined as a Affiliate Member of ILAC
QMP-LS	Quality Management Program - Laboratory Services(Canada), Joined as a Associate Member of ILAC
ANSA	Afghan National Standards Authority(Afghanistan), Joined as a Affiliate Member of ILAC
UK NEQAS	United Kingdom National External Quality Assessment Service(the United Kingdom), Joined as a Stakeholder of ILAC

##### ► Revised Document

IAF/ILAC A5:03/2011	IAF/ILAC Multi-Lateral Mutual Recognition Arrangement (Arrangements): Application of ISO/IEC 17011:2004
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Relevant documents can be downloaded on ILAC Website ([http://www.ilac.org/ilac\\_documents.html](http://www.ilac.org/ilac_documents.html)).

#### ■ APLAC(Asia-Pacific Laboratory Accreditation Cooperation)

##### ► Published and Revised Document

MR	APLAC MR 001 Issue No. 19, 04/11(Procedures for Establishing and Maintaining the APLAC Mutual Recognition Agreement Among Accreditation Bodies)
PR	APLAC PR 007 Issue No. 31, 01/11(APLAC - Its Role and Structure - PowerPoint Presentation)
SEC	APLAC SEC 038 Issue No. 48, 01/11(APLAC Membership Summary List)

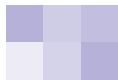
Relevant documents can be downloaded on APLAC Website (<http://www.aplac.org/publications.html>).

##### ► APLAC PT(Proficiency Testing)

- Progress Status of PT programs

Program	Name	Operating Agency	Progress Status
APLAC T076	Iron Ore	CNAS(China)	Distributed interim report





APLAC T077	Elements in Bovine Liver	HKAS(Hong Kong)	Submitted final report
APLAC T078	PAH in Sediment	HKAS(Hong Kong)	Completed to distribute final report
APLAC M024	Plain Plug Gauges	KOLAS(Korea)	Submitted final report

## ■ ISO/CASCO(ISO Conformity Assessment Committee)

### ▶ Current Status of ISO Standards

Standard No	Standard Name	Progress Status
ISO/IEC 17020	Conformity Assessment - General criteria for the operation of various types of bodies performing inspection	- Completed the Voting on DIS(Draft International Standard)
ISO/IEC 17021	Conformity assessment - Requirements for bodies providing audit and certification of management systems	- Completed Publishing ISO Standard
ISO/IEC 17024	Conformity assessment - General requirements for bodies operating certification of persons	- In progress of Voting for DIS (Draft International Standard)
ISO/IEC 17065	Conformity assessment - Requirements for bodies certifying products, processes and services	- In progress of Voting for DIS (Draft International Standard)

## III. Education and Events

### ■ Opening of the Second Expert Forum for Revitalization of Conformity Assessment System

Korean Agency for Technology and Standards(KATS) hosted the second expert forum for revitalization of conformity assessment system and policy development at Myeongdong Poster Tower on March 24, 2011.

This forum was held to develop policies to promote the testing and certification industry as the high value-added service industry by actively responding to the recently growing testing and certification market, and to build up the systems needed to globalize the testing certification industry by collecting experts' opinions regarding master plans of the Korean Accreditation system for the policy realization.

This event included presentations such as management trends in accreditation bodies of foreign major countries, success stories regarding management of KOLAS-accredited laboratories and policy suggestions by representatives of interested parties, and expert panel discussion with the topic of 「The Development Plan for the Promotion of the Certification Industry」.



### ■ KOLAS Refresher Training Course

KOLAS legal refresher training courses were organized for quality managers, technical managers, personnel from KOLAS-accredited organizations including testing/calibration and inspection, and assessors as follows:

Object	Implementation Date	Course Contents
Personnel from Accredited laboratories	February 23(Calibration), February 24(Testing), June 16(Testing)	<ul style="list-style-type: none"> <li>- Published and revised contents of KOLAS operational regulations</li> <li>- Cases of measurement uncertainty by specific fields</li> <li>- Explanations about operational criteria of proficiency testing</li> <li>- Improvement plan for reliability of KOLAS accredited laboratories.</li> </ul>
Assessors	March 24, April 26	<ul style="list-style-type: none"> <li>- Role of assessor</li> <li>- Explanation about major items pointed by the accreditation committee</li> <li>- Operational plan for PT in 2011</li> <li>- Improvement technique of assessment activities by the detailed fields</li> <li>- Improvement plan for reliability of assessment</li> </ul>

Please refer to the homepage of KOLAS-designated educational institutions and KOLAS for 2011 education schedule.

## IV. Accreditation Update(As of December 2010 to June 2011)

- For more detailed scopes, please visit the KOLAS homepage.

### ■ Testing

Accreditation No.	Organization	Accreditation Scope	Date Accredited
KT466	KOREA RAIL NETWORK AUTHORITY CENTRAL ENGINEERING OFFICE	Mechanical Test	2010-12-23
KT467	ARAM Technology and Engineering	Chemical Test	2010-12-31
KT468	Electronics and Telecommunications Research Institute	Electric Test	2011-02-05
KT469	Samsung Thales Co., Ltd	Electric Test	2011-02-24
KT470	DAEBO ELECTRIC POWER ENGINEERING	Chemical Test	2011-03-08
KT471	Erom Co., Ltd.	Chemical Test	2011-03-15
KT472	LeeGold Co., Ltd	Chemical Test	2011-03-20
KT473	Gyeongnam Technopark	Electric Test	2011-03-19
KT474	Korea Quality Institute of Construction Industry	Heat and Temperature Measurement Sound and Vibration Test	2011-03-08
KT475	PHILIP MORRIS KOREA INC.	Chemical Test	2011-04-01
KT476	Korea Gene Information Center Inc.	Forensic Science Testing	2011-04-18
KT477	STXENGINE Co., Ltd	Mechanical Test	2011-05-11
KT478	Samsung SDI	Electric Test	2011-05-23
KT479	Sangrok Environment Co. Ltd.	Chemical Test	2011-06-16
KT480	ILJIN Electric Co., Ltd. Cable Division	Electric Test	2011-06-23
KT481	SAMSUNG LED Co., Ltd.	Electric Test	2011-06-23

### ■ Calibration

Accreditation No.	Organization	Accreditation Scope	Date Accredited
KC11-250	TONGMyong Univ. Industrial-Academic Cooperation Foundation	Length and related quantities	2011-01-25
KC11-251	Hanwha Corporation Gumi Plant	Length and related quantities	2011-02-11
KC11-252	JAIN Corporation	Mass and related quantities	2011-02-11
KC11-253	Fluenta Korea Co.,LTD.	Mass and related quantities	2011-03-17
KC11-254	Research Institute of Standard for Environmental Testing CO., Ltd.	Amount of Substance	2011-04-11
KC11-255	MyungSung HITEC Co., Ltd.	Mass and related quantities	2011-06-03
KC11-256	Korea Calibration Center Co., Ltd.	Length and related quantities Mass and related quantities	2011-06-21

### ■ Inspection

Accreditation No.	Organization	Accreditation Scope	Date Accredited
KI-103	Shanghai CAS Electronics Co., LTD	Industrial Products and Consumer Products	2011-06-08

### ■ Reference Material Producers

Accreditation No.	Organization	Accreditation Scope	Date Accredited
KRMPs-10	National Forensic Service	Chemical Composition	2011-04-11

## V. List of KOLAS Documents

No.	Date of Issue	Title of Document
KOLAS-R-001	Mar. 2011	Operational Regulations for Accreditation of Calibration Laboratories
KOLAS-R-002	Mar. 2011	Operational Regulations for Accreditation of Testing Laboratories and Inspection Bodies
KOLAS-R-003	Dec. 2009	Operational Criteria for Proficiency Testing Scheme
KOLAS-R-004	Mar. 2011	Regulations on the Application for Accreditation and Conduct of Assessment
KOLAS-R-005	Dec. 2009	Requirement for Qualifications, Competence and Registration of KOLAS Assessor and Technical Experts
KOLAS-R-006	June 2008	Accreditation Requirements and Procedures for Providers of Proficiency Testing Scheme
KOLAS-R-007	Dec. 2009	Designation Requirements for Training Institute
KOLAS-R-008	June 2008	KOLAS Policy on Measurement Traceability
KOLAS-R-009	July 2009	Operational Regulations for Accreditation of Reference Material Producers
KOLAS-R-010	Nov. 2009	Operational Regulations for Accreditation of Medical Testing Laboratories
KOLAS-SR-001	Apr. 2008	Supplementary Requirements for Accreditation (Chemical and Biological Testing laboratories)
KOLAS-SR-002	Apr. 2007	Supplementary Requirements for Accreditation (Mechanical Testing Laboratories)
KOLAS-SR-003	Apr. 2007	Supplementary Requirements for Accreditation (Electrical Testing Laboratories)
KOLAS-SR-004	Apr. 2007	Supplementary Requirements for Accreditation (Non-Destructive Testing Laboratories)
KOLAS-SR-005	Apr. 2007	Supplementary Requirements for Accreditation (Sensory Testing Laboratories)
KOLAS-SR-006	June 2008	Supplementary Requirements for Accreditation (EMC Testing Laboratories)
KOLAS-SR-008	June 2008	Supplementary Requirements for Accreditation (Laboratories Performing Field Calibration)
KOLAS-SR-010	Mar. 2009	Supplementary Requirements for Accreditation (Information Security System Testing Laboratories)
KOLAS-SR-011	June 2008	Supplementary Requirements for Accreditation (Horse Racing Laboratories)
KOLAS-SR-012	Apr. 2008	Supplementary Requirements for Accreditation (Food Testing Laboratories)
KOLAS-SR-013	May 2008	Supplementary Requirements for Accreditation (Detection and Quantification of Genetically Modified Organism (GMO) in Food)
KOLAS-SR-014	June 2008	Supplementary Requirements for Accreditation (Forensic Science Laboratories)
KOLAS-SR-015	Nov. 2009	Supplementary Requirements for Accreditation (Software Testing Laboratories)
KOLAS-G-001	Apr. 2010	Guidelines for the Use of KOLAS logo and for the Claims of Accreditation Status
KOLAS-G-002	June 2008	Guidelines for Evaluating and Expressing Uncertainty of Measurement Results
KOLAS-G-003	June 2008	Guidelines on Assessment and Reporting of Compliance with Specification
KOLAS-G-004	June 2008	Guidelines for Calculating, Maintaining and Managing Best Measurement Capability (BMC) Status
KOLAS-G-005	June 2008	Guidelines for Estimation of Measurement Uncertainty in the Testing Field
KOLAS-G-007	June 2008	Guidelines for Internal Audits
KOLAS-G-008	June 2008	Guidelines for Management Review
KOLAS-G-009	June 2008	KS A ISO/IEC 17025 Interpretation Guides
KOLAS-G-010	June 2008	KS A ISO/IEC 17020 Interpretation Guides
KOLAS-G-011	June 2008	Guidelines on Grading of Non-conformities
KOLAS-G-012	June 2008	Guidelines for the Conduct of Environmental Assessment
KOLAS-G-013	June 2008	Guidelines for the Determination of Calibration Intervals of Measuring Instruments
KOLAS-G-014	Apr. 2008	Guidelines for Acceptability of Chemical Reference Materials and Commercial Standard Solutions Used for the Calibration of Equipment
KOLAS-G-015	May 2008	Guidelines for the Validation and Verification of Chemical Test Methods
KOLAS-G-016	Dec. 2009	Accreditation Fields for Medical Testing
KOLAS-G-017	Dec. 2009	KS P ISO 15189 Interpretation Guides
KOLAS-G-018	Sep. 2010	Basic Guideline for Technical Records Management of KOLAS-Accredited Organization

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<http://www.kolas.go.kr/english/>