CNAS Experience on Accreditation of PT Providers & RM Producers

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Rio de Janeiro, Brazil

Outline

- Background
- CNAS status in quo
- Market Study &Technical Viability
- Positive & Negative Points
- Promotion of RMP & PTP Programs

I. BACKGROUND

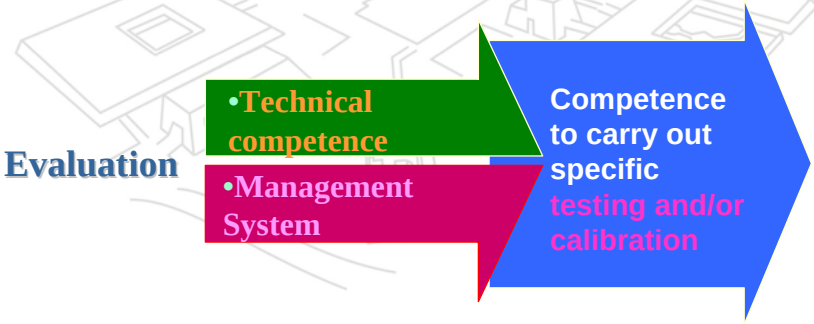
Fields of Lab Accreditation

Lab Accreditation

- Testing/Calibration Labs
- Inspection Body
- Medical Testing Labs
- PT Providers
- RM Producers
- Lab Bio-safety
- .....

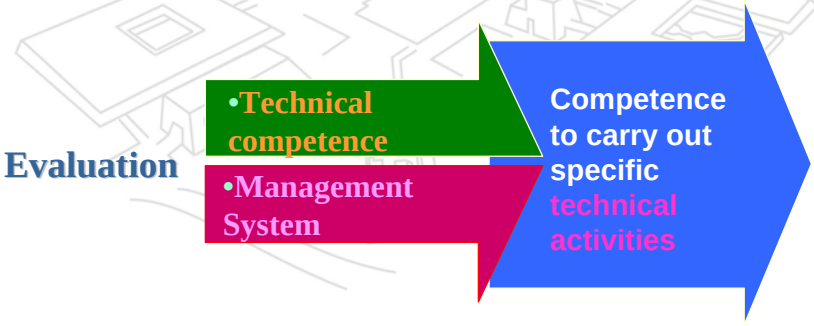
Laboratory Accreditation

is an evaluation process by which an authoritative body gives formal recognition that a laboratory is competent to carry out specific testing and/or calibration.

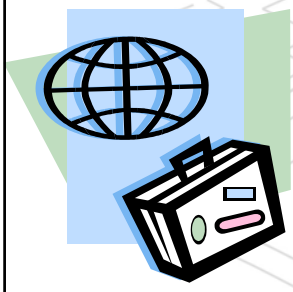


Lab & Lab-related Accreditation

is an evaluation process by which an authoritative body gives formal recognition that an organization is competent to carry out specific technical activities.



One Test works in the whole World !



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Building Bricks of ILAC MRA

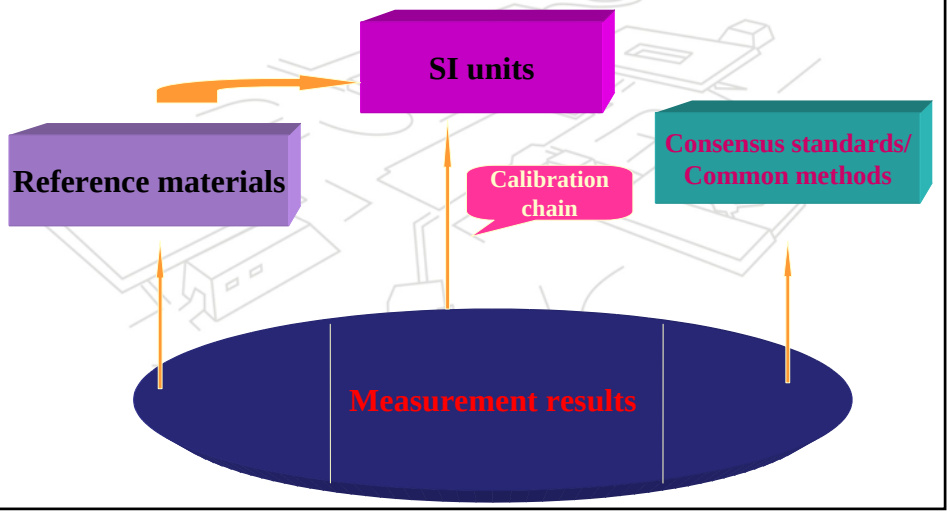
MRA

*Results comparisons (PT)	Uniform traceability system （SI unit）	consistent Accreditation system -ISO/IEC 17011

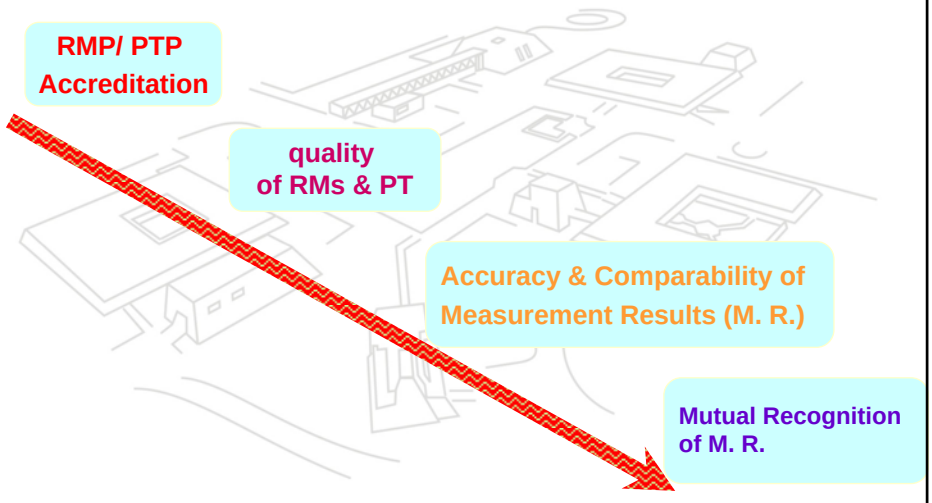
Evaluation each other

Common Accreditation Criteria

Traceability Requirement for Accreditation

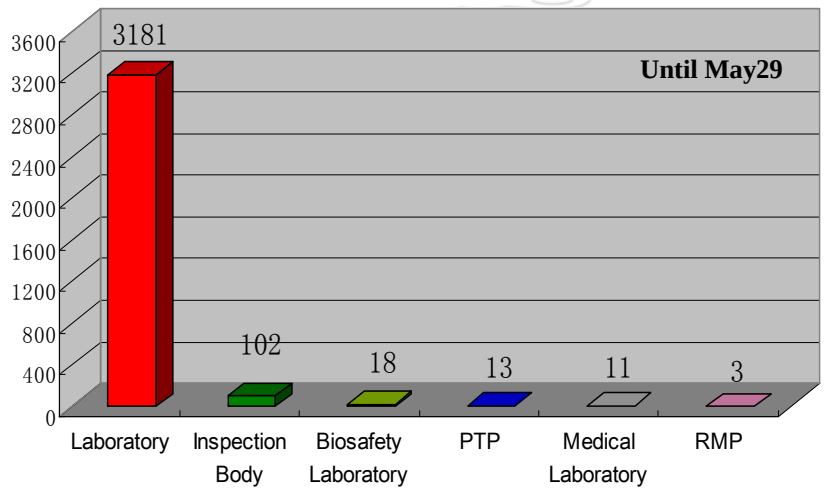


the Role of RMP&PTP Accreditation

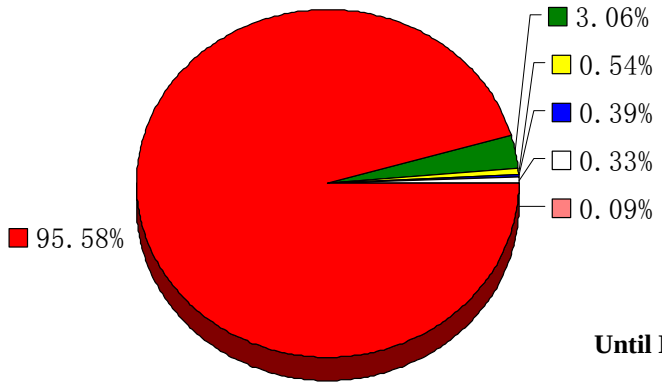


II. CNAS Status in quo

Statistical Chart



Percentage Chart



Until May29

Laboratory
Inspection Body
Biosafety Laboratory
PTP
Medical Laboratory
RMP

Accreditation Criteria of RMP

Competence Accreditation of RMP

ISO G34

ISO/IEC 17025

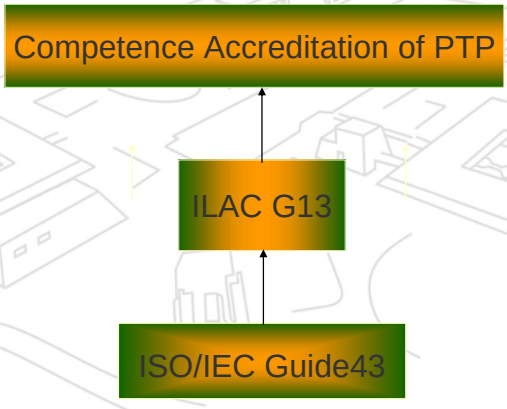
ISO G31

ISO G35

Accredited Areas of RMP

- Iron & Steel
- Environmental Protection
- Other Metal materials
- Ores & Mines
- Gases

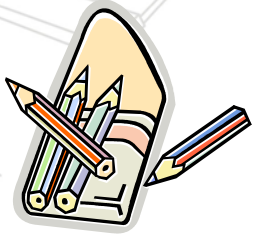
Accreditation Criteria of PTP



Accredited Areas of PTP

- Food
- Metal materials
  - Chemical, Physical, and Engineering Testing
- Health care
- Forensic Science
- Environmental protection
- Ceramics
- Textile
- Coal
- Plant & Animal Quarantine
- Mines & Ores
- Petroleum

III. Market Study &Technical Viability



Smaller Market

Chinese Market:

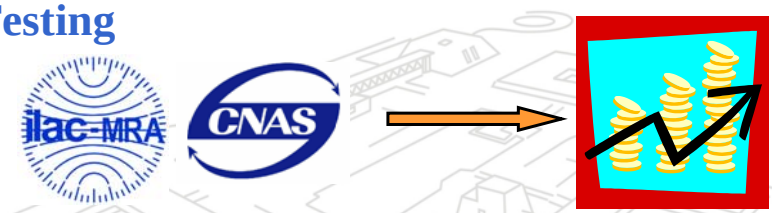
- Testing/calibration Labs >= 80,000
- RMP approx. 200
- PTP approx. 20

CNAS goal till 2010:

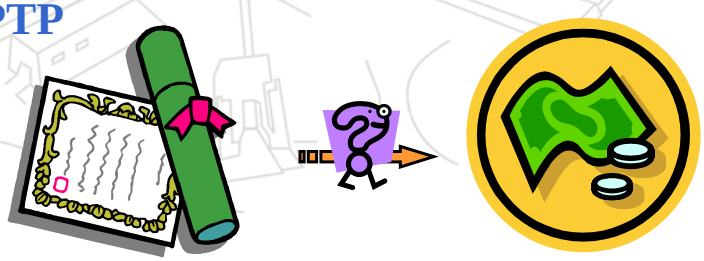
- ☑ ISO/IEC 17025 >=5000
- ☑ RMP >=6
- ☑ PTP >=20

Less Direct Motives

Testing



RMP/PTP

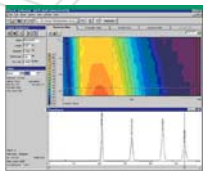


The Role of RMs Determines the Market

RMs

Apparatus

Method



Result

Approval Systems in China

OIML

International Organization of Legal Metrology

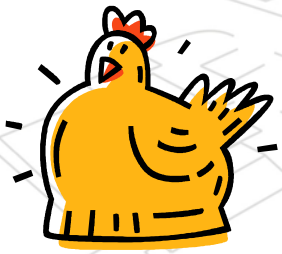
ISO International Organization for Standardization

Government Approval

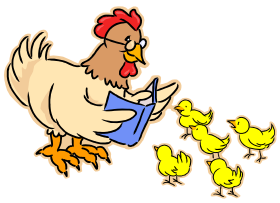
- Only approved by the government, it is legal that RMs are produced and distributed in the mainland of China.

Proficiency Testing Providers

Accreditation



PT & PTP



Management Structure

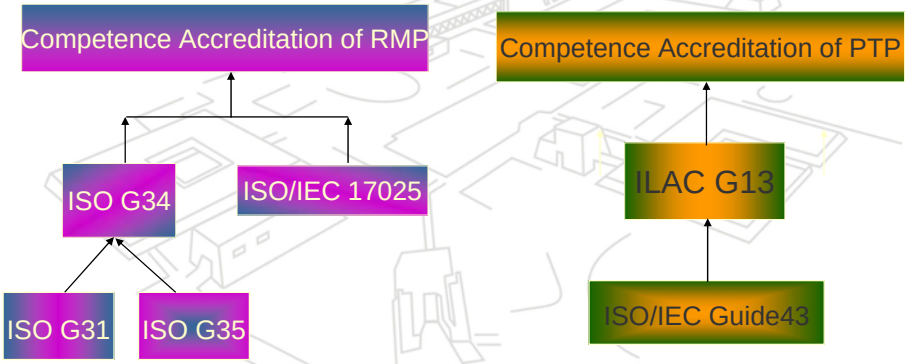
Role of PT Activities

PT Activities

External Quality Assurance

IV. Positive(+) & Negative(-) Points

International mode (+)



Regional Recognition (+)

Dec. 6, 2007, Kulur Lamper

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Large Market for RMs & PT (+)

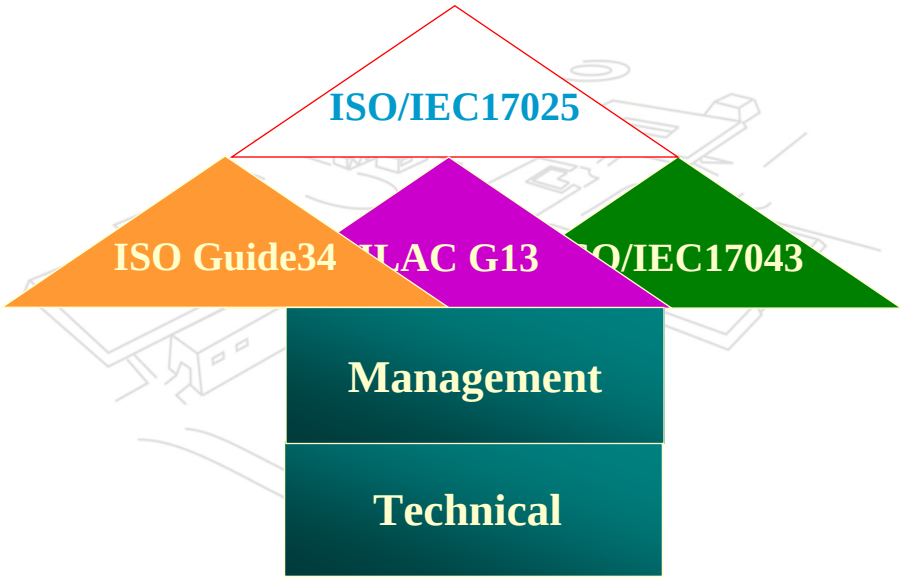
>=80,000

RMs: US$1000

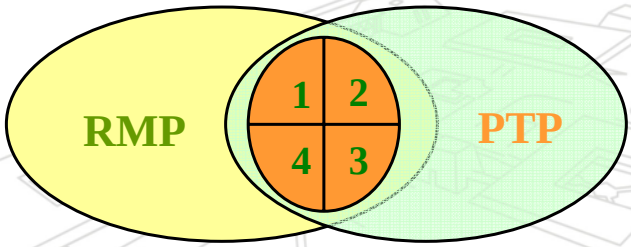
PT: US$1000

US$80,000,000

Similar Structure(+)



Similar Focus (+)



- ☺ Planning
- ☺ Preparation of samples/materials
- ☺ Homogeneity and Stability Study
- ☺ Statistical Techniques

Activity Stage (+)

RM Technical Committee

PT Technical Committee

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Three pillars of sustainable development :
metrology, standardization and conformity assessment

Smaller Market for Accreditation (-)

Chinese Market:

- Testing/calibration Labs >= 80,000
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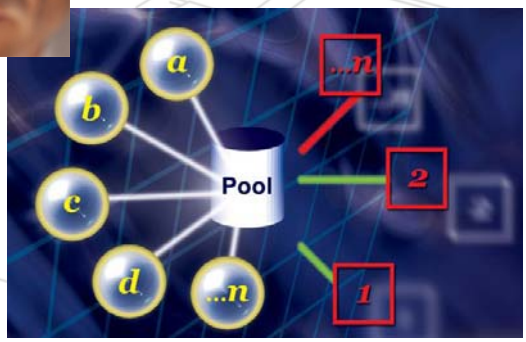
- PTP approx. 20

Bad return on investment (-)

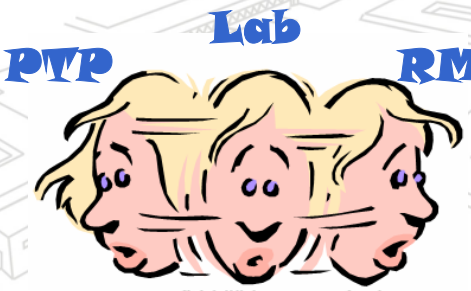
Small pool of experts (-)

Peer Evaluation

Limited Pool



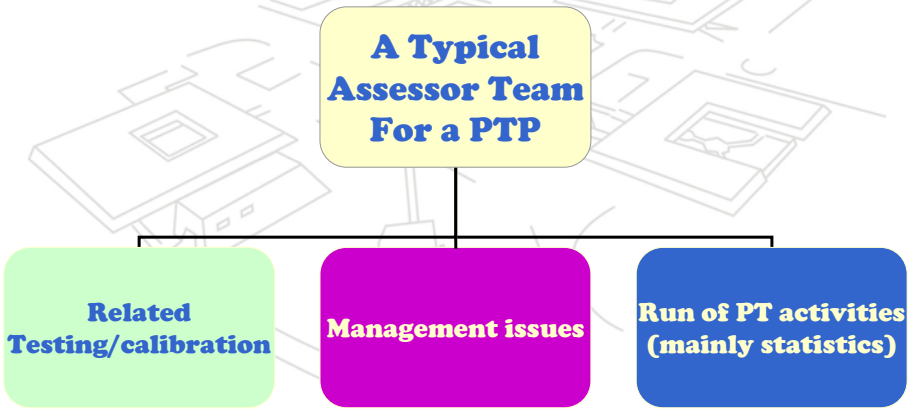
Too Strong Influence (-)



measurement

Production/Provision

Heavy Burden(-)



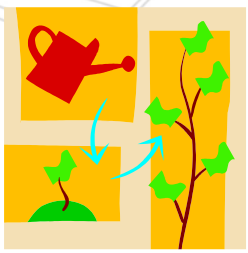
Heavy Burden(-)

Stages/ Tasks of RM production	Accreditation Requirements
Production planning	G34
# Material preparation	G34 + 17025
# Homogeneity/Stability study	G34 + 17025
# Characterization of Property Values	G34 + 17025
Assignment of and decision on property values	G34 + 17025
Authorization of property values and issue of certificate	G34
Handling and storage (including post certification testing)	G34 + 17025
Distribution	G34

+ International Mode
+ Regional Recognition
+ Large User Market
+ Similar Structure
+ Similar Focus
+ Activity Stage

– SMALLER MARKET
– BAD RETURN
– SMALL POOL
– TOO STRONG IMPACT
– HEAVY BURDEN

V. PROMOTION OF RMP & PTP ACCREDITATION



Active Participation

International Organization for Standardization

Holding Professional Activities

- RM, PT technical committee
- Training of Assessors
- Training of the internal auditors
- Seminar for the RMs &RMPs, PT & PTPs

Setting Rules for RMs

- In CNAS SOP for the on-site assessment of ISO/IEC 17025, it clearly says:

5.6.6 CNAS recognizes the following reference materials having the traceability:

a) RMs produced by accredited RMPs by CNAS;

…

c) RMs produced by accredited RMPs by APLAC RMP MRA signatory;

Setting Rules for PT

In ILAC P9-2005, it reads,

"The recommended minimum amount of appropriate PT activities (see Note 2) per laboratory is:

— one activity prior to gaining accreditation (see Note 3);

— one activity relating to each major sub discipline of a laboratory's scope of accreditation (see Note 4) within four years (see Note 5). "

Setting Rules

Areas and disciplines	Sub-areas	frequency
Metal & alloy materials	Chemical: elements	1 time/1year
	Mechanical: hardness, bend，tensile, size	1 /2 yrs
	NDT: magnetic particle, penetrate, radiography, ultrasonic	1 /2 yrs
Oil & petrochemical	Chemical: gasoline, diesel oil, crude oil	1 /1 year
	Physical: flash point, viscosity, density, distillation	
Polymer multi-materials	Chemical: elements	1 /2 yrs
	Mechanical: tensile, rupture	
Food	Chemical: trophic elements, heavy metal, additives, colorants, residues	1 /1 year
	Biological: toxin, microbial, trans-gene	

Mutual Recognition Arrangement

ilac

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APLAC

Asia Pacific Laboratory Accreditation Cooperation

Promotion of Mutual Recognition

No.	Name	Website	Accredited by
1	IIS (Institute for Interlaboratory Studies)	www.iisnl.com	RvA
2	RTC (Resource Technology Corporation)	www.RT-Corp.com	A2LA, NVLAP
3	APG (Analytical Products Group, Inc.)	www.apgqa.com	A2LA, NVLAP, RvA,
4	LGC (the Laboratory of the Government Chemist)	www.lgc.co.uk	UKAS
5	FAPAS (Food Analysis Performance Assessment Scheme)	www.fapas.org.cn	UKAS
6	ASQUAL	www.asqual.com	CORFAC
7	IFM Quality Services Pty Ltd	www.ifmqs.com.au	NATA
8	NSI Solution, Inc.	www.nsi-es.com	A2LA、NVLAP
9	RCPA Quality Assurance Programs Pty Limited	www.rcpaqap.com.au	NATA

Closing Remarks


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北京2008奥运会官方网站 www.beijing2008.cn


Welcome to Beijing!