

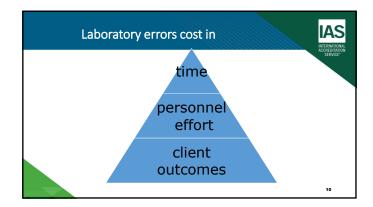


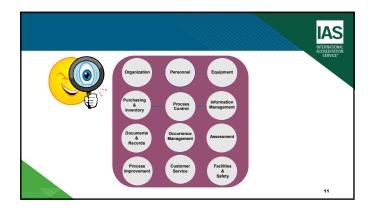




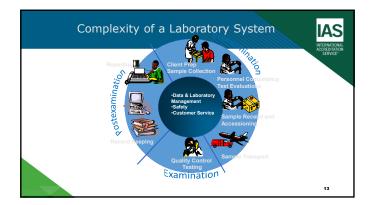


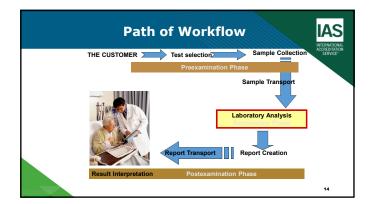
	IAS NEGRADIO	) NAL
Essential to all aspindustry are <b>labor</b> that are:		
accurate,		
<ul><li>reliable, and</li><li>timely</li></ul>		

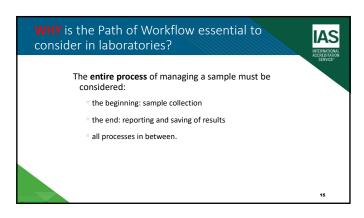




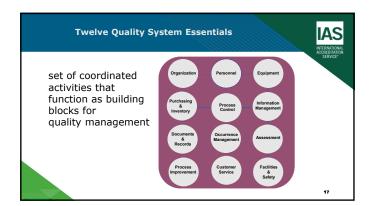


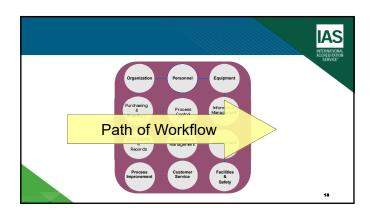






## Laboratory tests are influenced by I laboratory environment knowledgeable staff competent staff reagents and equipment quality control communications process management occurrence management cocurrence management record keeping







### human resources job qualifications job descriptions orientation training competency assessment professional development continuing education

## Equipment acquisition installation validation maintenance calibration troubleshooting service and repair records

### Purchasing and Inventory

- vendor qualifications
- supplies and reagents
- critical services
- contract review
- inventory management



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### **Process Contro**

- quality control
- sample management
- method validation
- method verification

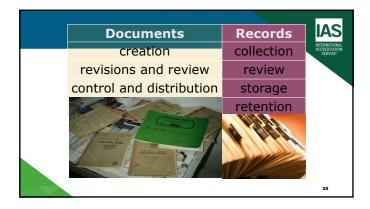


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### Information Management

- confidentiality
- requisitions
- logs and records
- reports
- computerized laboratory information systems (LIS)

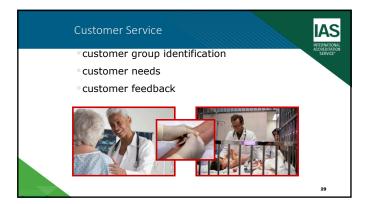




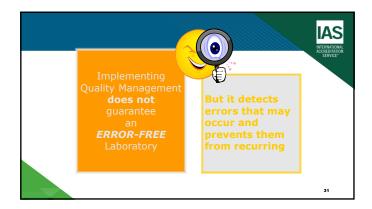


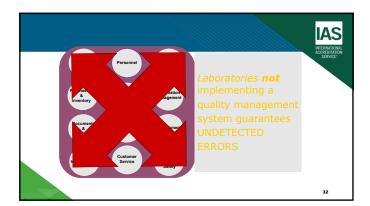


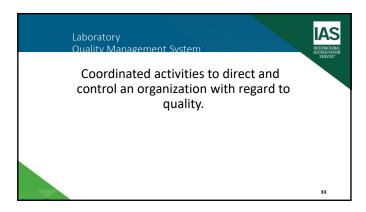
### Process Improvement opportunities for improvement (OFIs) stakeholder feedback problem resolution risk assessment preventive actions corrective actions



# Facilities and Safety - safe working environment - transport management - security - containment - waste management - laboratory safety - ergonomics EMPLOYEES ONLY









Quality Management is not new.					
Innovator	Date	Cycle			
Walter A.Shewhart	1920s	Statistical Process Control			
W. Edwards Deming	1940s	Continual Improvement			
Joseph M. Juran	1950s	Quality Toolbox			
Philip B. Crosby	1970s	Quality by Requirement			
Robert W. Galvin	1980s	Micro Scale Error Reduction			

ISO Documents - Laboratory	IAS INTERNATIONAL ACCEPTITATION
<b>ISO/IEC 15189:2012</b> General requirements for the competence of medical laboratories	AUGUSTATION SERVICE
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### In summary

IAS

- Quality management is not new.
- Quality management grew from the good works of innovators who defined quality over a span of 80 years.
- Quality management is as applicable for the medical laboratory as it is for manufacturing and industry.

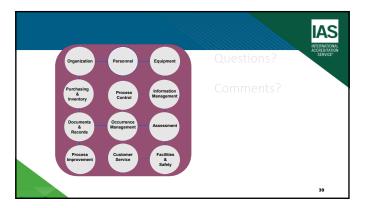
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### Key Messages



- A laboratory is a complex system and all aspects must function properly to achieve quality.
- Approaches to implementation will vary with local situation.
- Start with the easiest, implement in stepwise process.
- Ultimately, all quality management system elements must be addressed.

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Thank y	ou!			NATIONAL EDITATION RVICE
	Contact information		SE	RVICE"
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