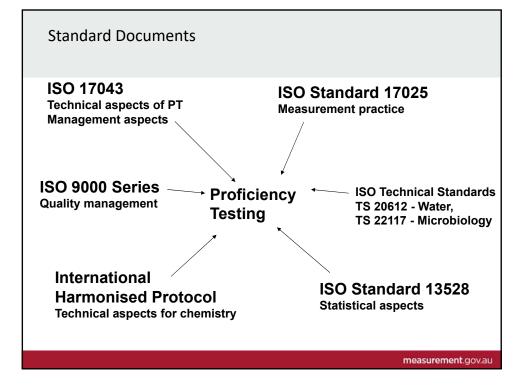


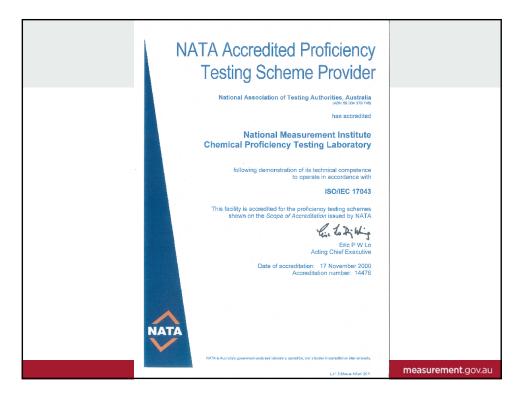
APFAN PT-2 Workshop Food Analysis Workshop: Proficiency Testing and Reference Materials Development

Australian Government Department of Industry, Innovation and Science
Highlights of ISO 17043
Paul Armishaw
measurement.gov.au

Proficiency Testing
Proficiency testing is:
<i>"evaluation of participant performance against pre- established criteria by means of interlaboratory comparisons."</i> ISO 17043
measurement.gov.au





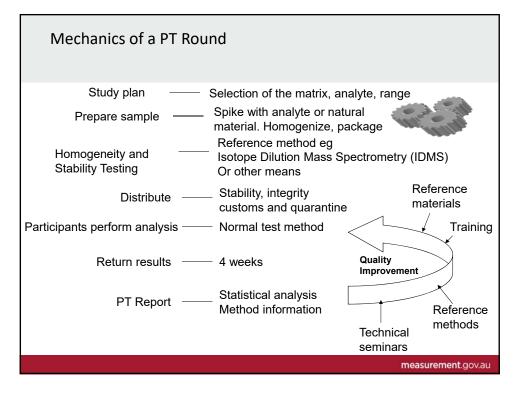


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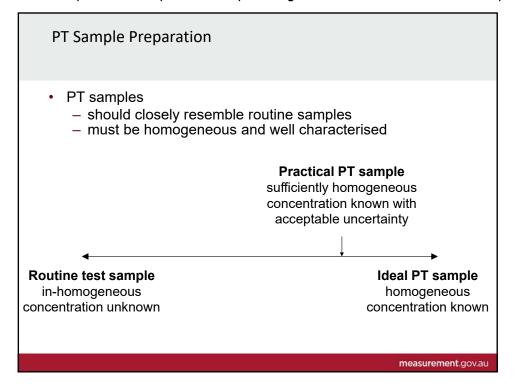
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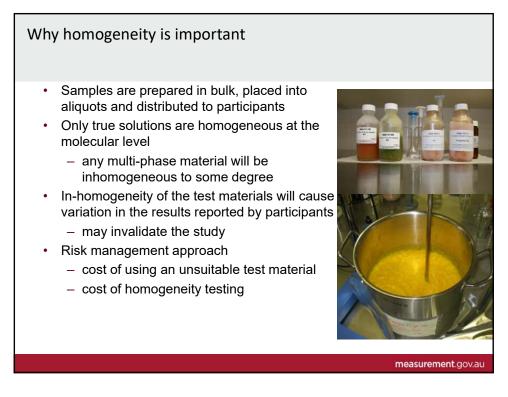
Management Aspects
<ul> <li>Harmonised with the previous version of ISO9000.</li> <li>Similar to previous ISO17025, ISO Guide34</li> <li>Describes a complete management system <ul> <li>document control, contracts, corrective action, management review etc</li> </ul> </li> </ul>
<ul> <li>Subcontracting of services         <ul> <li>cannot subcontract: planning, performance evaluation, authorising the final reports</li> <li>advise participants</li> <li>assure competence of subcontrators</li> </ul> </li> <li>Complaints and appeals         <ul> <li>must have a procedure for appeal of PT assessment</li> </ul> </li> </ul>
measurement.gov.au





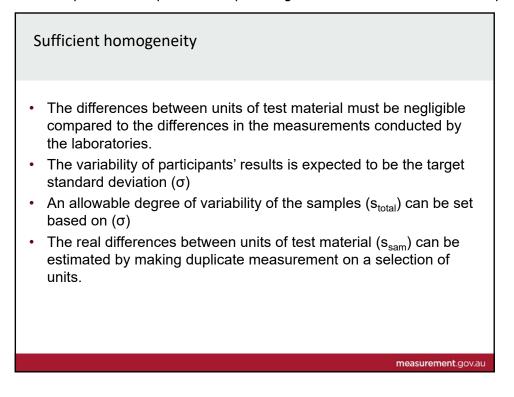
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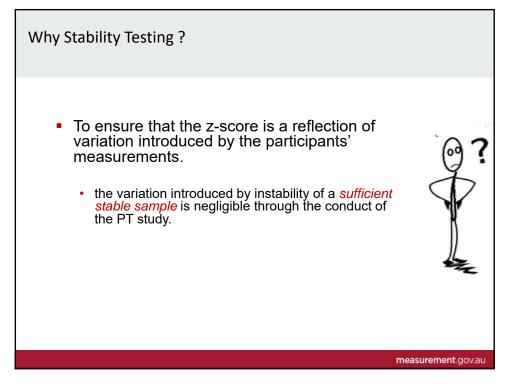






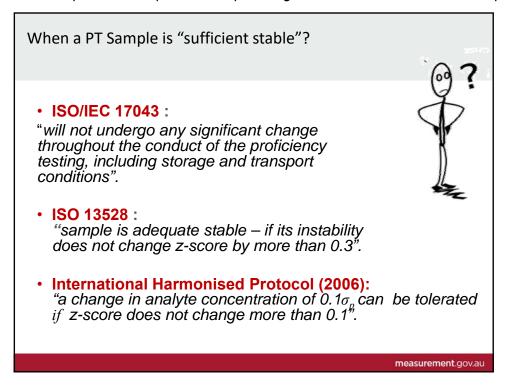
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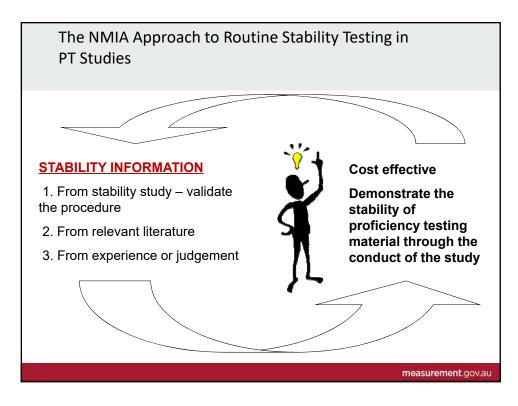




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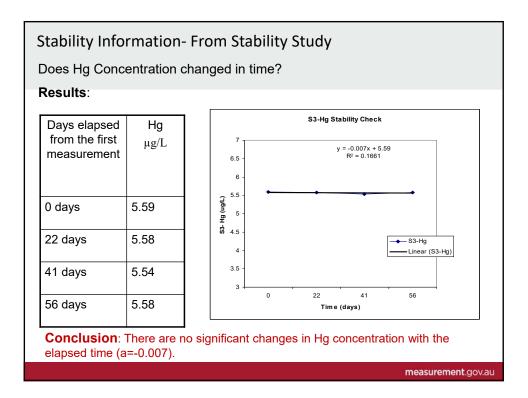


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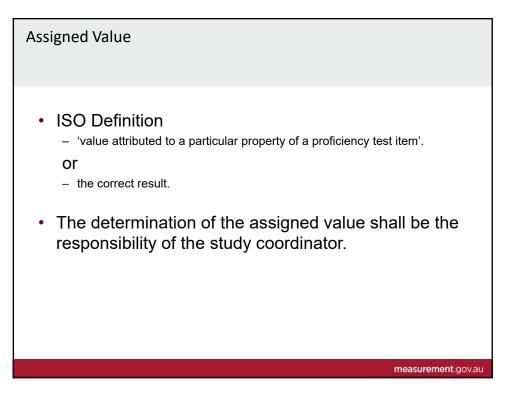
Stability Information- From Stability Study					
General procedure – follow ISO 13528 recommendation:					
<ul> <li>Method:</li> <li>The same laboratory/method as for homogeneity check is used.</li> <li>Use highly reproducible methods.</li> <li>When routine methods are used then: <ul> <li>Use matrix match control samples.</li> <li>Analyse samples in duplicate</li> </ul> </li> <li>The stability study design: <ul> <li>It should be based on the investigated factors:</li> <li>time (over the entire period of the PT study)</li> <li>storage condition (simulate conditions encounter by the sample during the transport and storage).</li> <li>storage container (glass, HDPE, PP).</li> </ul> </li> <li>Statistical tests <ul> <li>Linear regression or</li> <li>Two sample t-test are used.</li> </ul> </li> </ul>					
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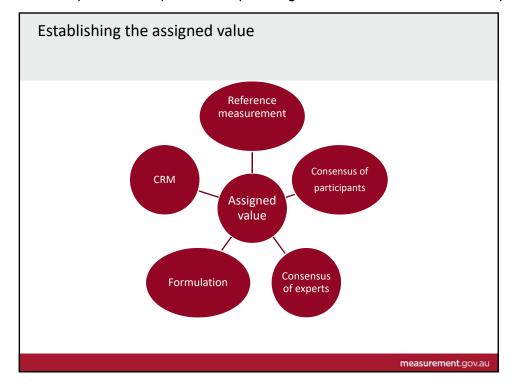


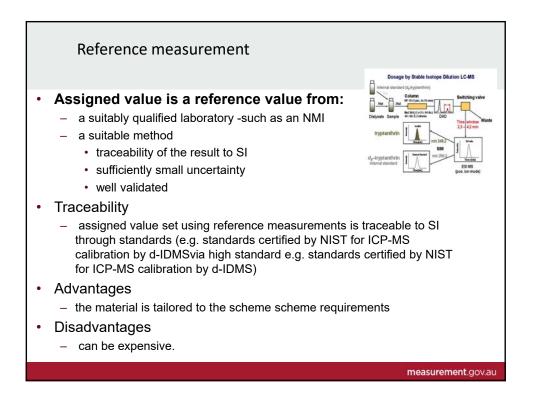
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Stability Information- From Literature						
<ul> <li>published reports</li> <li>published stability studies in journals</li> <li>example:</li> <li><u>Stability Data for Analytes used in September 2009 Pesticides in Fruit &amp; Vegetables Proficiency Study (AQA 09-14)</u></li> </ul>						
A	NALYTE	STABILITY INFORMATION	SOURCE OF DATA			
At	bamectin	Stable in hops when stored in freezer for periods of 150 to 190 days. Susceptible to photodegradation. Americans established a half-life of 18 days on pears. Good agricultural practice in the Netherlands factors in photodegradation as an effective means of reducing contamination of glasshouse tomatoes.	JMPR 1997 - Report of the 1997 Joint FAO/WHO Meeting of Experts			
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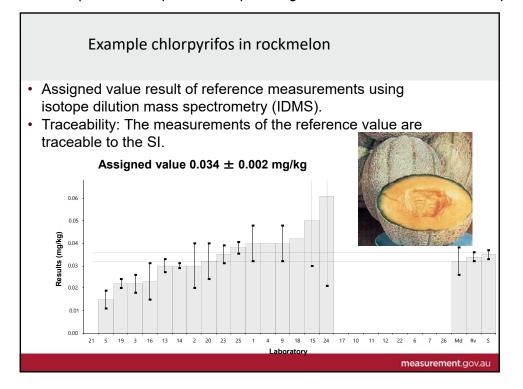


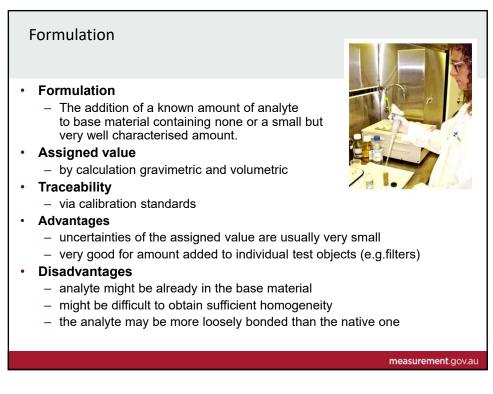


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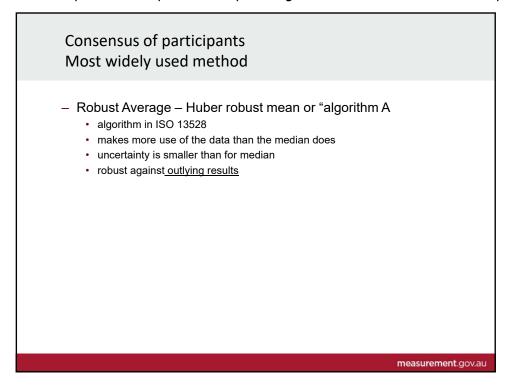


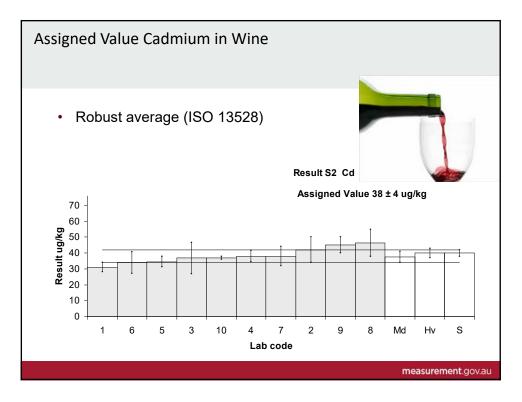
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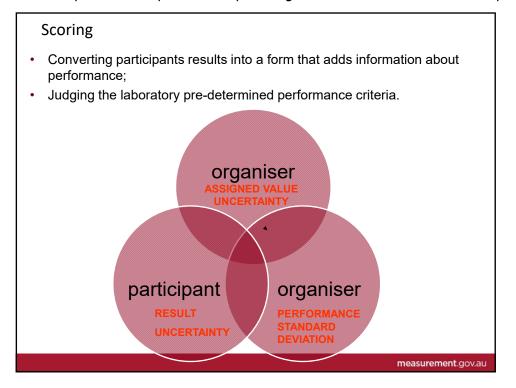


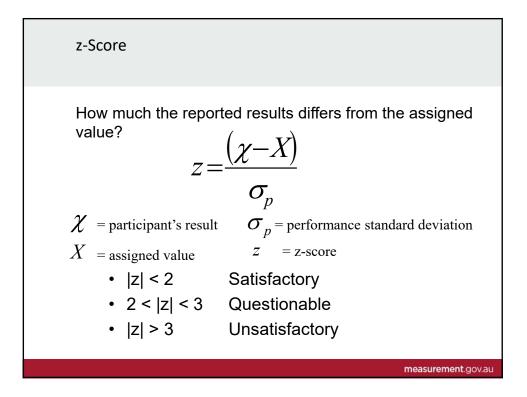




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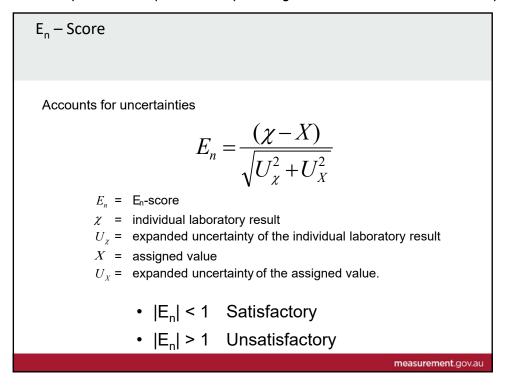


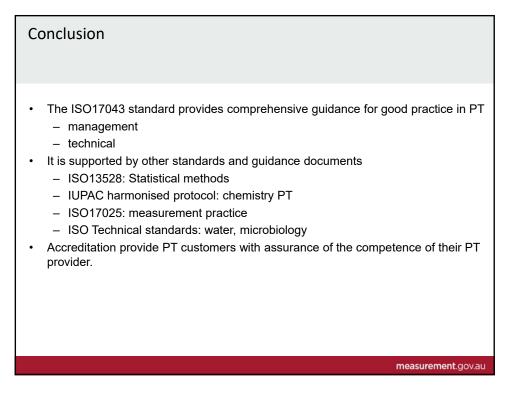


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