


Chris Heartsill, D-ABFT-FT




- 1 Forensic Toxicologist for 30 years
- 2 Retired from Medical Examiner System in Texas (included postmortem and human performance toxicology)
- 3 Involved with standard development since 2009 (SWGTOX)
- 4 Currently serving as a Regional Toxicology Liaison for NHTSA Region 7

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1

ANSI/ASB Standard 054:
Standard for a Quality
Control Program in
Forensic Toxicology
Laboratories

Chris Heartsill, D-ABFT-FT



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3

Disclosures

The opinions expressed in this presentation are mine and do not necessarily reflect the opinions of the RTL Program, OSAC, or the ASB.

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4

Learning Objectives

- 1 Inform the forensic toxicology community of the concepts contained within the standard.
- 2 Provide examples of concepts and processes to aid in implementation.
- 3 Identify the appropriate application and scope of the standard.

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5

Standard Development Evolution

February 2009
National Academy of Sciences (NAS)
Report published

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6

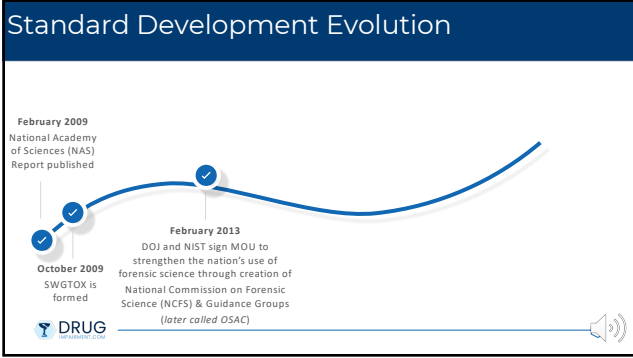
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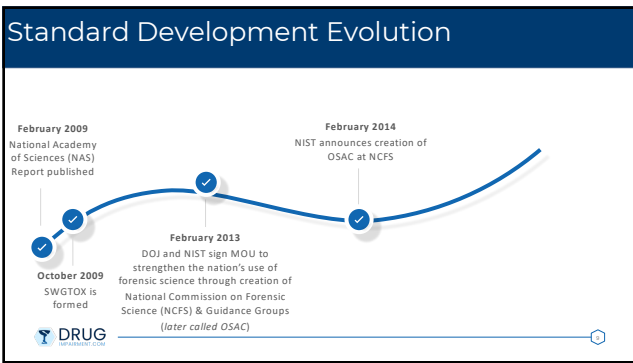
October 2009
SWGTOX is formed

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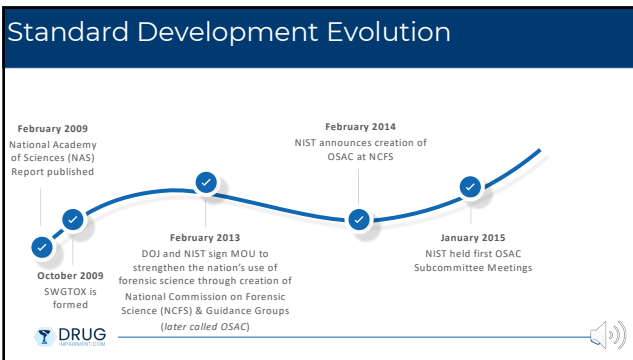
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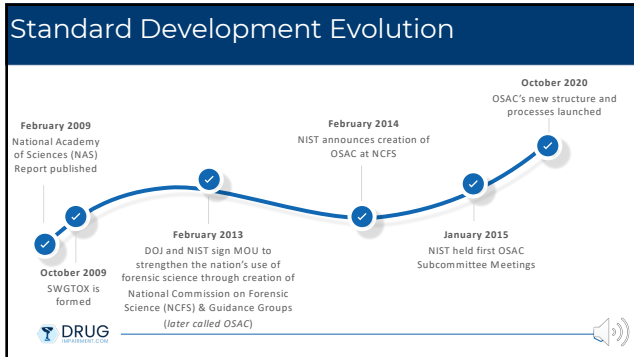
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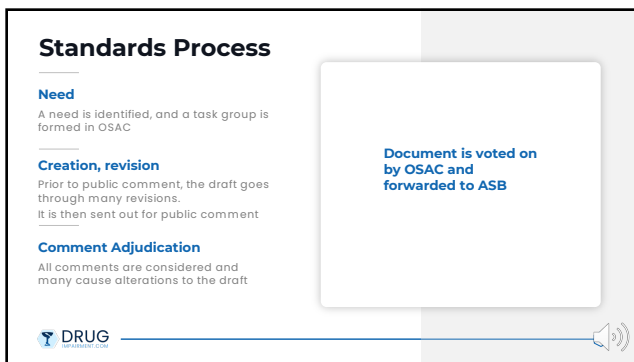
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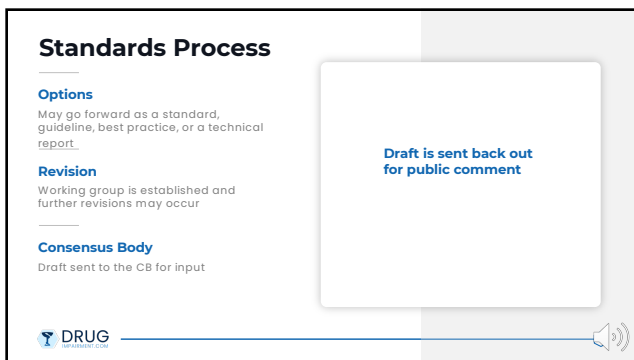
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11



12



13

Standards Process



Comment Adjudication
Once again, the public makes comments and each comment is considered.

Revision
Further revisions may be made based on public comments.

Document Approval
Once approved the document will be published by ASB.

ANSI/ASB Standard 054, First Edition
2021

Standard for a Quality Control Program in Forensic
Toxicology Laboratories

14



Standards Process

You Can Participate
Sign up for the ASB Newsletter to know when public comment opens

Review
Review draft documents and submit constructive comments



<https://womenstandards.org/best-practice-recommendations-for-submitting-comments-on-draft-standards/>

<https://www.asbstandardsboard.org>



15

Where to go to view Standards

-  **AAFS/ASB**
<https://www.aafs.org/standards-resources-training/checklists>
-  **OSAC**
<https://www.nist.gov/organization-scientific-area-committees-forensic-science/osac-registry>

ANSI/ASB Standard 054, First Edition
2021


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16

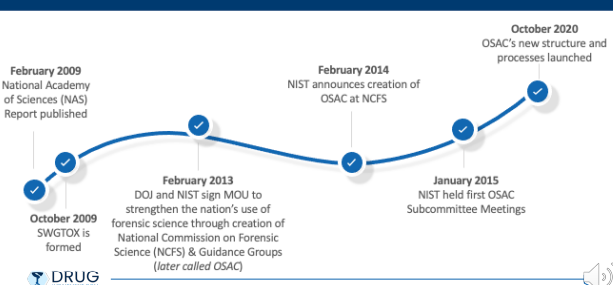
ANSI/ASB Standard 054, First Edition
2021

**Standard for a Quality Control Program in Forensic
Toxicology Laboratories**



17

Standard Development Evolution



February 2009
National Academy of Sciences (NAS) Report published


October 2009
SWGTOX is formed

February 2013
DOJ and NIST sign MOU to strengthen the nation's use of forensic science through creation of National Commission on Forensic Science (NCFS) & Guidance Groups (later called OSAC)

February 2014
NIST announces creation of OSAC at NCFS

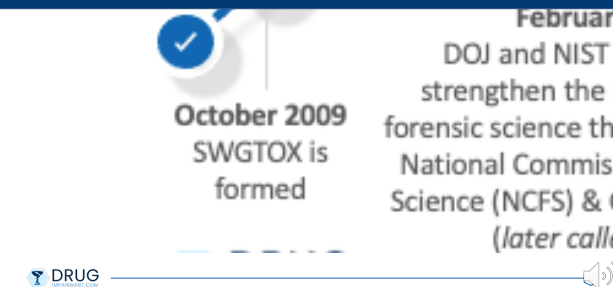
January 2015
NIST held first OSAC Subcommittee Meetings

October 2020
OSAC's new structure and processes launched




18

Standard Development Evolution



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strengthen the n
forensic science thr
National Commiss
Science (NCFS) & G
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19

The Beginning

- 1 2009 SWGTOX was formed
- 2 One of the early meetings was in a bunker in Washington DC
- 3 This document began as a QA/QC concept, but it was quickly apparent that was too broad a scope
- 4 Focus shifted to Quality Control only as it was more directly useful to the daily operation of the toxicology laboratory





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20

The Transition

- 1 2014 – OSAC was created
- 2 The QC document moved from SWGTOX to OSAC for consideration and ultimate publication
- 3 2021 – ASB 054 was published

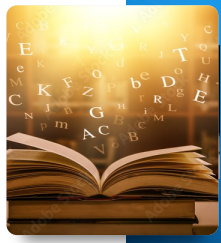



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21

ASB 054: Table of Contents

- Scope (1)**
Defines application of the document
- Normative References (2)**
Documents that are indispensable for the application of the standard.
- Terms and Definitions (3)**
Includes definitions and acronyms
- Overview (4)**
Provides general information and program requirements



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22

ASB 054: Table of Contents

- Quality Control Materials (5)
- Preparation, Use, Storage, and Expiration of Cal and Controls (6)
- Calibration Requirements for Quant Procedures (7)
- Control Requirements (8)



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