Training Committee Meeting Summary August 3, 2023

1. Roll Call:

Calista Daigle, Chair, called the meeting to order at 1pm Central on August 3, 2023, Minneapolis, MN. The following voting members were in attendance: Calista Daigle, Elizabeth Turner, Joe Manzella and Jerry Thao.

The Committee did not meet in July 2023.

There were not enough voting members present to do business, but the Committee did meet to review information and seek input from conference attendees.

2. Summary

Calista reviewed the presentation prepared for todays meeting: Attachment A.

Course Suggestions:

- At the winter QSM meeting, the work of the Consumables Task Force was presented for possible inclusion in the Standard. Perhaps a course may be an appropriate place for them to share checklists, lists of critical supplies, etc ... How does a lab evaluate suppliers?
- There can be duplicate classes that may present a topic differently.
- Course for FSEA Back to Basics for new analysts.
- If a facility needs a course developed, can TNI help? Yes. Talk to us we may have ideas for you.

3. LinkedIn Page

Jerry Thao brought up the LinkedIn page to show how it used and shared postings from the conference.

The page includes:

- notifications for new training classes.
- conference updates registration reminders, etc.

Jerry will be setting up an Events page.

4. Training Course Catalog

Elizabeth provided information and showed a copy of the new DRAFT training catalog (Attachment A).

- She asked if the badging should be on the Table of Contents (TOC) page? People would like to see the badge in words on the TOC.
- Badges
 - Hexagon shapes can be stacked.
 - Include in course description along with words.
 - What do you think of the look?

Hard to see words in the orange.

Do not like orange. Letters are hard to read - change color or change text color.

Different colors on the circles - Each badge type has its own color. Add color key to page.

Silky offered to make hexagons using photoshop.

Text could be colored for different credentials. Match the badge colors.

Complexity of multiple colors could cause costs.

- How does course link? This will be up to William Daystrom (TNI IT)
- Should the catalog be downloadable? Yes.
 - Want people to get the most current information, so current webpage is important.
- Should the catalog and website be the same? Yes
- Additional Suggestions to Consider:
 - What info do you need to take classes? Pre-requisites.
 - Written out and badge symbols.
 - It was suggested that testimonials for courses could be added?
 - Add comments about the courses Share Q&A that comes up about a course.
 - Should we have a posting of beginner, intermediate or advanced course. Level of difficulty. Add this to the trainer application if we do this.
 - People want the option to filter the catalog.

This information will be taken back to the Training Committee and considered in a final version of the SOP related to the Training Catalog (SOP 1-128 – Content of Training Courses).

5. SOP on Examination Questions (SOP 1-129)

If an exam has 30 questions - the exam is 25 minutes.

For the Credentialing Exam:

- Questions are defined as lookup questions or things that have to be thought through.
- Multiple Choice always has to be 5 questions.
- True False questions.
- No fill in the blank.
- Questions will be reviewed by experienced individuals before they are used.
- There will be multiple questions prepared so the exam is never the same.

Ilona asked if the right group is working on the SOP since Credentialing Committee has been doing work on the exam also. Jerry will represent Credentialing Committee and join Marlene and Mark's effort.

People asked if exams are open book. It was noted that some similar exams are closed book.

Badge tests - Open book and not proctored. Credential tests - 300 questions - proctored.

Exam questions - not all questions are from classes, but most would have been covered by one of the classes.

The Exams are based on language in the Standard - reading comprehension of the standard is another way to learn. Courses may not cover all of the questions.

Meeting attendees did not support the need for every question must be in a training course.

There need to be guidelines for how to write a class exam. Format of questions should be addressed too.

Knowledge skills and abilities. Page can be downloaded on the Credentials page. Details what person needs to know to get a badge.

No partial credit will be given for questions with multiple answers.

Some questions may be at a higher difficulty level - but scored the same as simple questions. The exam is a mix of types of questions and difficulty level.

Skipped questions are zero.

Comment: If questions are already categorized - why not offer 2 points for more difficult questions instead of just 1.

Comment: Should we tell people what area they need to work on if they did not pass?

Feedback on scores:

- Would like to receive score.
- ANAB does not.
- EPA DW just pass/fail
- Illinois Give you a scoring and breaks down individual areas. Different test every time.

<u>Make up tests</u> - need to rewrite with credential exams and badge exams. Don't call it a makeup test. Re-test?

May need to have a waiting period before it can be retaken – People could try to copy test and then retake?

One year waiting period seems extreme.

Perhaps a study guide could be prepared to stop people from taking the first test as test prep.

Tests that affect people's careers are not new. PE and Operator exams.

Add new questions to the pool that don't count the first round.

Test should continue to evolve. Add new ones that are not part of scores.

Failures need to be checked to make sure there are no errors before being penalized.

May need to go to expert committees for questions.

People that are credentialed already can help write questions - could be part of professional development hours.

Attachment A 8/3/23



Training Courses Offered

Courses are grouped by Category

Assessor

Assessor - 2016 TNI Environmental Laboratory

NEFAP Assessor Training - 2016 TNI Environmental Laboratory

NEFAP Assessor Training - TNI FSMO Standard Volume 1

Management

Managing an Environmental Laboratory - Five Part Series

Lowering the Cost of Poor Quality with an Effective Quality Management System and Integrating Risk Management Principles

Field Activities

Applying Data Integrity to Field Activities

Good Laboratory Practice Series: Principles of Sample Collection - All 3 Sessions



Training Courses Offered

Technical

How to Properly and Scientifically Calibrate an Analytical System
Whole Effluent Toxicity (WET) Testing – Data Interpretation Training

TNI Laboratory Standard

Managing Your Proficiency Testing Program
Brown Bag 11: Contracts and Tenders & Service to Client Requirements and Imprementation Idea

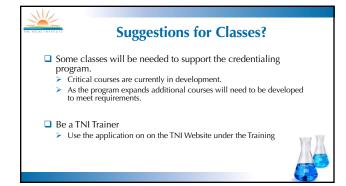
Conference Learning
Leading Through Effective Communication
TNI Assessment Forum Summer 2021 – Unmasking the 2016 TNI Standard





Attachment A 8/3/23







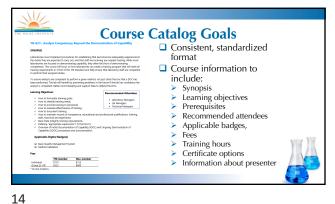


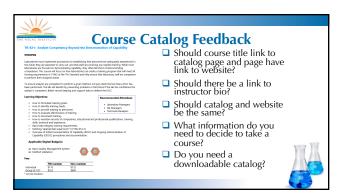




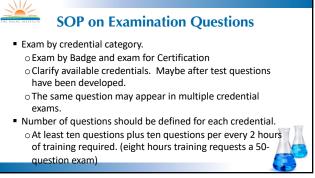
Attachment A 8/3/23

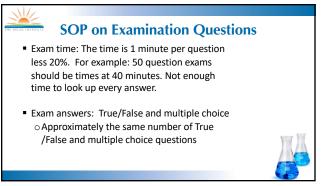












Attachment A 8/3/23



SOP on Examination Questions

- Exam questions taken from course materials or general subject matter.
 - Ouestions covered in at least one of the required
 - Note source of question/answer on the answer sheet in case changes are made to the course.



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SOP on Examination Questions

Pass fail or score given: 70% or better is passing.
 Each question is scored as one point. Multiple choice are not given partial credit. All correct (+1 point) or one or more wrong answer is scored as -1 point



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SOP on Examination Questions

- Is the test returned after scoring?
- o This can be considered a great learning tool but means the test bank must have three times the number of questions so different tests can be given to different registered personnel. Consider that the questions and answers are then in the public domain for future scrutiny, criticism, and debate. Not necessarily a "bad" thing (in the name of science).
- o Questions and answers may be changed with each time the test is taken by the same person.



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SOP on Examination Questions

- Make up tests.
 - olf failed, the test may be taken one more time after a 30 day period
 - In order for the person to retake some of the courses.
 - olf failed again, the person must wait one year and retake the classes.
 - Evidence of course retake must be provided.

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SOP on Examination Questions

- Recommend to test the test (exam).
- The first time the test is given the score may be adjusted due to a poorly worded question or answer. These questions will be scored as correct the first time when at least 50% of the persons taking the test score the question incorrect (per the answer key) (Question is modified and added back into the pool of questions). Obviously, consider keeping track of question revision history and reasons for changes.
- The second time the test is given the score may be adjusted for any given question when at least 50% of the persons taking the test score the question incorrect (Question is modified and added back into the pool of questions)
- The third tine the test should be valid and wrong answers are clearly wrong.



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SOP on Examination Questions

- Questions should be prepared by expert committee members and submitted to the pool of questions.
 - A request for questions based on the TNI standard and policies should be sent to each committee to request T/F and multiple choice questions with answers and the source of the question/answer based on the standard or training class.
 - Consider having a moderate component of the questions based on real in-lab scenarios and not just standard language.
 - Consider having a couple of questions that require the student to contemplate the impacts of a given dilemma (nonconformance) and/or resolution (corrective action) on the end data users' decision-making.
 Instructors should also be solicited for submitted questions.

Attachment A 8/3/23

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SOP on Examination Questions

- The order for taking the first test must be defined. The first group to take the test should be for credit or if given free then no credit. Or some other scenario.
- Fee for testing Will depend on the process used for this testing. Professional proctored, "trust testing" or other considerations.
- Consider offering the first review courses and credential tests inperson only at TNI meetings to encourage meeting participation.
 For fee or volunteer

