Session-at-a-glance

### Session title: 1.1. Introduction to auditing

### **Session Learning Objective:**

Extend the participants knowledge of public sector auditing. Enhance understanding of the role of supreme audit institutions (SAIs) in different administrative systems. Participants will acquire a good knowledge about concepts of financial, compliance and performance auditing, and an ability to recognise and analyse different audit types and approaches. Overview of existing auditing standards.

- 1.1.1. Role of SAIs and the accountability triangle
- 1.1.2. 8 INTOSAI pillars of SAI independence and examples of practical implementation
- 1.1.3. Other INTOSAI core values and examples of practical implementation
- 1.1.4. Different auditing mandates and audit office types
- 1.1.5. ISSAIs, general framework, and most relevant ISSAIs for this course
- 1.1.6. Financial, compliance, performance (definitions, comparison, 3Es, 4<sup>th</sup> E).
- 1.1.7. Major auditing terminology (materiality, criterion, sampling, strategy, detailed audit programme, audit design matrix, evidence, report/opinion, recommendation)

Teaching Method	Time
	9:00-10:30
1.1.1. Lecture	15 min
1.1.2. Group exercise, SAI independence	45 min
1.1.3. Lecture and discussion	15 min
1.1.4. Lecture	15 min
Break	10:30-11:00
	11:00-12:30
1.1.5. Lecture	20 min
1.1.6. Group exercise - agreeing on a definition of financial, compliance and performance audit. What is environmental auditing?	50 min
1.1.7. Individual exercise (matching terms with definitions)	20 min

Session-at-a-glance

### Session title: 1.2. Performance audit

### **Session Learning Objective:**

Participants will receive a thorough overview of the performance audit process, including the planning, conducting, reporting, and follow-up stages. Participants will agree on a common format for the audit cycle (incl audit design matrix, audit questions, criteria, methods, evidence, findings, recommendations), which will be revisited frequently in later sessions. The "Audit design matrix" will be utilised as a main tool for audit planning throughout the training.

The participants will have a good understanding of differences and similarities in the performance audit process among SAIs, and of the reasons for those differences.

- 1.2.1. Overview of performance audit process differences and similarities among SAIs and reasons for those. Real life problems, audit problems
- 1.2.2. Best practice of performance audit process, audit design matrix
- 1.2.3. Pre test for the course

Teaching Method	Time
	13:30-14:30
1.2.1 Crown discussion asserting present audit present in	
1.2.1. Group discussion – countries present audit process in	
their SAIs (based on homework before course)	60 min
Break	14:30-15:00
	15:00-17:00
1.2.2. Lecture and discussion	60 min
1.2.3. Pre test for the course (containing questions covering	60 min
all sessions in the 2 <sup>nd</sup> module).	
Participants keep the results and are expected to correct	
their answers when the material is presented.	

Session-at-a-glance

### Session title: 1.3. Identifying issues related to environment and sustainable development

### **Session Learning Objective:**

Participants will learn to recognise environmental and sustainability issues in various situations. The aim is to help them reach an understanding that all human activities and developments should be reviewed from the viewpoint of environment and sustainability, and to suggest how they may incorporate that understanding into their audit work.

- 1.3.1. Introduction to task and key terminology (sustainable development)
- 1.3.2. Identifying environment and sustainable development problems and risks

Teaching Method	Time
	09:00-12:30
4.2.4.1	20
1.3.1. Lecture 1.3.2. Excursion combined with photo hunt for	30 min
environment and sustainable development problems	180 min

Session-at-a-glance

### Session title: 1.4. Concept of sustainable development

### **Session Learning Objective:**

Participants will have a clear understanding of the concept of sustainable development and environmental issues in that context. They will have knowledge of the differences between environment and sustainable development issues. Participants will be able to explain good and bad practices in sustainable development, and assess the auditability of sustainable development problems.

- 1.4.1. Definition of sustainable development. Overlapping and distinguishing characters of sustainable development and environmental issues.
- 1.4.2. Examples of good and bad practices in sustainable development.
- 1.4.3. Possibilities of auditing sustainable development issues.

Teaching Method	Time	
	13:30-15:00	
1.4.1. Group discussion and hands-on exercise. Preparation of 2 posters, which provide: definition of SD, examples of good and bad practice.		90 min
Break	15:00-15:30	
	15:30-17:00	
1.4.2. Presentation of posters		30 min
1.4.3. Discussion in the class: How can we audit sustainable development issues? Whose problem is sustainable development? Whom do we need to audit? How can audit make an impact? What are the challenges in auditing sustainable development?		60 min

### Session title: 1.5. Good environmental governance

### **Session Learning Objective:**

The aim of the session is to provide insights into various environmental governance frameworks associated with environmental protection, and the importance of involving stakeholders and ensuring transparency. Participants will get an overview of different practices and understand their benefits and shortcomings.

- 1.5.1. Overview of characteristics of good governance (UN, WB). Worldwide governance indicators (WB).
- 1.5.2. Environmental policy, MEAs, national environmental legislation main principles.
- 1.5.3. Ownership of natural resource and environmental problems (liability). Role of national government, local governments, private and third sector in environmental management in different countries.
- 1.4.4. Good practices in of environmental management and overview of a variety of instruments in environmental management (e.g., financial instruments, protection, monitoring, enforcement, PPP, EMAS, ISO). Introduction of the concept of external costs and how that concept has been implemented in different countries.
- 1.5.5. The role of policy in steering environmental management.

Teaching Method	Time
	9:00-10:30
1.5.1. Lecture	30 min
1.5.2. Lecture	30 min
1.5.3. Group discussion	30 min
Break	10:30-11:00
	11:00-12:30
1.5.4. Lecture	50 min
1.5.5. Group exercise with case studies. Designing environmental management framework based on policy.	40 min

### Session title: 1.6. Basics of environmental audit

### **Session Learning Objective:**

The aim of the session is to present the essence of environmental audit and its relationship to the broader concept of performance audit. Participants will obtain a good knowledge about environmental audit, its unique features, as well as the common features it shares with other types of audits. Participants will also receive comprehensive insights into the role and activities of, and the resources available through, the INTOSAI WGEA.

- 1.6.1. Relevance and distinctive characters of environmental issues for auditors long term impact, transboundary nature, indirect economic links.
- 1.6.2. Environmental accounting and the cost of environmental problems.
- 1.6.3. Environmental audit and its relation to financial, compliance and performance audits.
- 1.6.4. INTOSAI WGEA activities. INCOSAI recommendations.
- 1.6.5. INTOSAI WGEA guidance materials and other resource materials for auditors.

Teaching Method	Time
	13:30-15:00
1.6.1. Discussion in groups	30 min
1.6.2. Lecture	30 min
1.6.3. Lecture	30 min
Break	15:00-15:30
	15:30-17:00
1.6.4. Lecture	30 min
1.6.5. Lecture combined with live search demonstration on WGEA website (the guidance materials, audit database, training materials etc.)	60 min

Session-at-a-glance

### Session title: 2.1. Essence of biodiversity

### **Session Learning Objective:**

Good knowledge of the range and basic terminology of biodiversity, and a good understanding of the importance of relationships and interdependences within ecosystems. Participants will acquire a systematic knowledge of the main threats to biodiversity and governments' responses to them.

- 2.1.1. Terminology of biodiversity.
- 2.1.2. Definition of biodiversity.
- 2.1.3. The scope and importance of biodiversity to ecosystem and economic services of biodiversity. Sources for biodiversity data.
- 2.1.4. Threats to biodiversity.
- 2.1.5. Ways to managing threats to biodiversity and the role of governments.

Teaching Method	Time
	9:00-10:30
2.1.1. Individual exercise - quiz on biodiversity (matching terms with definitions).	10 min
2.1.2. Group discussion	30 min
2.1.3. Lecture	50 min
Break	10:30-11:00
	11:00-12:30
2.1.4. Group discussion followed by a presentation to class. Participants who raised biodiversity as a problem in their pre-training work are encouraged to share their experience.	50 min
2.1.5.Lecture	40 min

Session-at-a-glance

### Session title: 2.2. Selecting an audit topic in the area of biodiversity

## **Session Learning Objective:**

Understanding of the importance of systematic monitoring of environmental problems. Experience of weighing audit topics and knowledge using criteria for this.

- 2.2.1. Monitoring environmental problems that impact biodiversity.
- 2.2.2. SAIs activities for monitoring environmental problems affecting biodiversity.
- 2.2.3. Benefits and limitations of different biodiversity monitoring systems.
- 2.2.4. Weighing of potential audit topics.
- 2.2.5. Criteria for selecting audit topic.

Teaching Method	Time
2.2.1. Individual exercise of monitoring of environmental	Morning
problems related to biodiversity in newspapers of the day exercise is given to the participal	
	before 13:30-15:00
2.2.2. Brainstorming in the class	10 min
2.2.3. Debate: Which is more appropriate for selecting	00 min
audit topics; systematic monitoring or an ad hoc approach?	80 min
Break	15:00-15:30
	15:30-17:00
2.2.4. Practical exercise in groups for selecting the most relevant audit topic. Exercise is based on biodiversity issues	40 min
that participants discovered in 2.2.1.	
2.2.5. Group discussion with reporting to the plenary (with	50 min
use of audit design matrix)	30 111111
<ul><li>what criteria are used for selecting audit topics?</li></ul>	
- are some criteria more important than others?	

Session-at-a-glance

## Session title: 2.3. Field trip

## **Session Learning Objective:**

Experience of good/bad environmental management practices with an understanding of the possible ways to improve the situation.

- 2.3.1. Introduction to field work
- 2.3.2. Site visit to case 1 ( eg water management)
- 2.3.3. Site visit to case 2 (eg waste management)
- 2.3.4. Analyse of the cases and recommendations for improvement

Teaching Method	Time	
	9:00	
2.3.1. Lecture		30 min
2.3.2. Case 1		60 min
Break	10:30-11:00	
2.3.2. Case 1 continues		90 min
Lunch	12:30-13:30	
2.3.3. Case 2		90 min
Break	15:30-16:00	
2.3.3. Case 2 continues		60 min
2.3.4. Analysis of the cases		30 min

Session-at-a-glance

## Session title: 2.4. Designing audits of biodiversity

## **Session Learning Objective:**

Knowledge of good practices in auditing of audits on biodiversity. Experience in designing a biodiversity audit with the help of the WGEA guidance material, *Auditing Biodiversity: Guidance for Supreme Audit Institutions*.

- 2.4.1. Good practice of biodiversity audits worldwide.
- 2.4.2. Accumulating the best practice of biodiversity audits.
- 2.4.3. Designing an audit on biodiversity.
- 2.4.4. Particularities of designing biodiversity audit.

Teaching Method	Time
	9:00-10:30
2.4.1. Work in groups. Groups analyse different audit cases - why is this audit an example of good practices?	60 mir
2.4.2. Groups report their results to the class	30 mir
Break	10:30-11:00
	11:00-12:30
2.4.3. Designing an audit on biodiversity. Group exercise with the help of WGEA biodiversity guidance	60 mir
2.4.4. Groups report to class	30 mir

Session-at-a-glance

## Session title: 2.5. Audits of biodiversity based on MEAs and audit cooperation in biodiversity issues

## **Session Learning Objective:**

Understanding of the cross-border aspects of protecting biodiversity. Knowledge of multilateral agreements to protect biodiversity, and experience in designing such an audit derived from a MEA.

- 2.5.1. Transboundary concerns regarding biodiversity.
- 2.5.2. MEAs for protecting biodiversity.
- 2.5.3. Using MEAs in audits.
- 2.5.4. Tips for audit cooperation in biodiversity.

Teaching Method	Time
	13:30-15:00
2.5.1. Group discussion	30 mi
2.5.2. Lecture	60 m
Break	15:00-15:30
	15:30-17:00
2.5.3. Group exercise on biodiversity MEAs. Groups can work with audit topics selected in 2.2.4.	60 mi
2.5.4. Discussion in a class based on 2.5.3.	30 m

Session-at-a-glance

### Session title: 2.6. Overview of issues related to air and climate change

### **Session Learning Objective:**

Understand the basics of climate change and efforts to reduce its effects, and be introduced to issues concerning air-related environmental risks.

- 2.6.1. Global air issues climate change what is it?
- 2.6.2. Local and regional air-related problems
- 2.6.3. Risks associated with climate change sectors and impacts
- 2.6.4. Efforts towards climate change Government response through Mitigation and Adaptation
- 2.6.5 International accords and initiative that may serve as audit criteria

Teaching Method	Time	
	9:00-10:30	
2.6.1. Lecture combined with discussion and exercises		60 min
2.6.2. Group work		30min
Break	10:30-11:00	
	11:00-12:30	
2.6.3. Group work		30 min
2.6.4. Lecture		30 min
2.6.5. Exercises		30 min

Session-at-a-glance

### Session title: 2.7. Use of data in audits on the example of climate change

### **Session Learning Objective:**

Good understanding of the importance of data, and experience in working with data in different formats. The students should know how to identify environmental risks through searches in databases. The participants should also understand that data identified when planning/identifying risk for an audit, can also be used as audit data later during the actual conduct of the audit.

- 2.7.1. Identifying mitigation risks using statistical data measuring GHG emissions
- 2.7.2 Identifying adaptation risk finding indicators of impact and vulnerabilities through data search
- 2.7.3 Introduction to relevant data sources
- 2.7.4 Use of environmental data strengths and weaknesses

Teaching Method	Time
	13:30-15:00
2.7.1. Individual work or group work - mitigation	45mi
2.7.2. Individual work or group work - adaptation	45mi
Break	15:00-15:30
	15:30-17:00
2.7.3. Individual work or group work	60 mi
2.7.4. Lecture combined with discussion	30 mi

Session-at-a-glance

## Session title: 2.8. Forming audit questions

## **Session Learning Objective:**

The students should get an understanding of how to go from identifying environmental risks to assessing audit risks (risks to the 3 E's) in order to develop an audit objective and audit questions that can answer the audit objective.

- $2.8.1. \ Risk \ assessment different \ approaches \ in \ adaptation \ and \ mitigation \ related \ to \ the \ 3 \ E's$
- 2.8.2. Overall approach vs. sector-approach
- 2.8.3 The audit objective
- 2.8.4 From risk assessment to audit questions, what questions can we ask?

Teaching Method	Time	
	9:00-10:30	
2.8.1. Lecture combined with discussion and exercises	50 r	min
2.8.2. Group work	40r	min
Break	10:30-11:00	
	11:00-12:30	
2.8.3. Group work	50 r	min
2.8.4. Lecture combined with discussion and exercises	40 r	min

Session-at-a-glance

## Session title: 2.9. Audit cooperation in climate change issues

## **Session Learning Objective:**

Awareness about different approaches used in mitigation and adaptation audits.

- 2.9.1. The different approaches in mitigation and adaptation audits (what the different topics encompass in scope)
- 2.9.2. Common findings related to economy, efficiency and effectiveness
- 2.9.3. Lessons learned from cooperative audits

Teaching Method	Time
	13:30-15:00
2.9.1. Lecture combined with discussion and exercises	60 min
2.9.2. Group work	30min
Break	15:00-15:30
	15:30-17:00
2.9.3. Group work	50 min
2.9.4. Lecture combined with discussion and exercises	40 min

Session-at-a-glance

### Session title: 2.10. Overview of issues related to waste

### **Session Learning Objective:**

Thorough understanding of waste management hierarchy and its significance regarding waste management. Overview of waste regulations and the practice of waste management worldwide. Knowledge about financial aspects of waste management.

- 2.10.1. Waste management hierarchy and basic waste terminology.
- 2.10.2. Overview of different approaches to waste regulation.
- 2.10.3. Analysing waste management scenarios.
- 2.10.4. Financial aspects of waste management.
- 2.10.5. Waste management costs.

Teaching Method	Time
	9:00-10:30
2.10.1. Individual exercise on understanding waste management hierarchy and basic waste terminology.	20 m
2.10.2. Lecture	30 m
2.10.3. Group exercise (participants who have analysed waste problems in their pre-training paper can share their experience)	40 m
Break	10:30-11:00
	11:00-12:30
2.10.4. Lecture	40 m
2.10.5. Group exercise	50 m

Session-at-a-glance

## Session title: 2.11. Good environmental management

## **Session Learning Objective:**

Knowledge of good environmental management practices and an overview of information sources to find best practice cases. Awareness of common environmental management tools.

- 2.11.1. Concept of environmental management.
- 2.11.2. Good waste management practice.
- 2.11.3. Overview of most common environmental management tools (ISO 14001, EMAS, EIA, BAT etc).
- 2.11.4. Governments activities for regulating environmental management.

Teaching Method	Time	
	13:30-15:00	
2.11.1. Lecture		30 min
2.11.2. Group work. Analysing audit cases on waste management and/or good environmental management.		60 min
Break	15:00-15:30	
	15:30-17:00	
2.11.3. Lecture and discussion		50 min
2.11.4. Group exercise		40 min

Session-at-a-glance

### Session title: 2.12. Audit criteria on the example of waste audits

## **Session Learning Objective:**

Experience in finding and developing criteria for waste-related audits. Thorough understanding of the characteristics of solid and useful audit criteria.

- 2.12.1. Utilisation of criteria in audit reports.
- 2.12.2. Listing the features of good audit criteria.
- 2.12.3. Common problems of using criteria in audits.
- 2.12.4. Finding and developing audit criteria.

Teaching Method	Time	
	9:00-10:30	
2.12.1. Group work. Participants search for audit criteria in waste audit reports and analyze how useful they are. What characterises good audit criteria?	60 m	ıin
2.12.2. Groups report to the class. Discussion.	30m	iin
Break	10:30-11:00	
	11:00-12:30	
2.12.3. Lecture	30 m	iin
2.12.4. Group work. Work with case studies on waste (with the use of audit design matrix).	60 m	nin

Session-at-a-glance

### Session title: 2.13. Designing audits of waste issues that involve MEAs

### **Session Learning Objective:**

Understanding of the cross-border nature of waste problems. Knowledge about the methods and complexities associated with tracing waste streams. Awareness of MEAs regarding waste management issues and knowledge as to how they may be used in audits.

- 2.13.1. Transboundary waste problems.
- 2.13.2. Overview of waste MEAs.
- 2.13.3. Global waste streams and possibilities of controlling them.
- 2.13.4. Using MEAs in audits.

Teaching Method	Time
	13:30-15:00
2.13.1. Group discussion	50 min
2.13.2. Lecture	40 min
Break	15:00-15:30
	15:30-17:00
2.13.3. Lecture	40 min
2.13.4. Group work on a case (with the use of audit design matrix).	50 min

Session-at-a-glance

### Session title: 2.14. Global water challenges

### **Session Learning Objective:**

The aim of this session is to extend participants' knowledge about global water challenges and the efforts of governments to address them. This session is based on the INTOSAI WGEA guidance material, *Auditing Water Issues: An Examination of SAIs' Experiences and the Methodological Tools They Have Successfully Used* 

- 2.14.1. Introduction of global water cycle.
- 2.14.2. Main threats related to water resources and their economic consequences.
- 2.14.3. Management of water resources (incl drinking water, surface waters, waste water).
- 2.14.4. Good practices in water management.
- 2.14.5. Activities of government institutions with reference to economic aspects.

Teaching Method	Time
	9:00-10:30
2.14.1. Lecture	30 min
2.14.2. Group exercise. Participants who have mentioned problems related to water in their pre-training papers are encouraged to bring them out.	60 min
Break	10:30-11:00
	11:00-12:30
2.14.3. Lecture	40 min
2.14.5. Exercise in groups based on an audit case	20 min
2.14.5. Lecture	30 min

Session-at-a-glance

## Session title: 2.15. Auditing water issues

## **Session Learning Objective:**

Knowledge of good practices used in water audits.

- 2.15.1. Practices that have been successfully used in auditing a variety of water-related topics worldwide.
- 2.15.2. Useful tips for designing water audits.
- 2.15.3. Discussing audit plan with auditee.

Teaching Method	Time
	13:30-15:00
2.15.1. Group work. Analysis of water audit reports. What has worked well in water audits?	60 min
2.15.2. Presentation of the results 2.15.1. to class	30 min
Break	15:00-15:30
	15:30-17:00
2.15.3 Role play.	90 min

Session-at-a-glance

### Session title: 2.16. Overview of various methods used in water audits worldwide

### **Session Learning Objective:**

Good knowledge of the wide variety of audit methods successfully used, and experience in choosing methods so as to collect solid audit evidence. Good experience in using INTOSAI WGEA's guidance material Auditing Water Issues: An Examination of SAIs' Experiences and the Methodological Tools They Have Successfully Used

- 2.16.1. Importance of solid audit evidence.
- 2.16.2. Water auditor's toolbox: how various audit methods have been used to address different water issues, and the circumstances in which they have been successfully applied.
- 2.16.3. Practical experience with selected audit methods (eg using GIS).

Teaching Method	Time
	9:00-10:30
2.16.1. Group work with reporting to the class	30 min
2.16.2. Lecture	60 min
Break	10:30-11:00
	11:00-12:30
2.16.3. Hands-on group work	90 min

Session-at-a-glance

## Session title: 2.17. Audit cooperation in water issues

## **Session Learning Objective:**

Good understanding of the cross-border nature of water problems and awareness of MEAs in the water sector.

- 2.17.1. Complexity and interrelationships of problems connected to water issues.
- 2.17.2. Transboundary nature of water problems.
- 2.17.3. Cooperative audits on water issues.
- 2.17.4. Good practices used in water audits.

Teaching Method	Time	
	13:30-15:00	
2.17.1. Group exercise. Participants need to find links between different problems.		50 min
2.17.2. Lecture.		40 min
Break	15:00-15:30	
	15:30-17:00	
2.17.3. Group work.		60 min
2.17.4. Presentation of the results of 2.17.3. to the class. Listing good practice of water audits.		30 min

Session-at-a-glance

## Session title: 3.1. Evaluation

### **Session Learning Objective:**

The objective of this session is to revisit the topics of earlier sessions and evaluate how well the participants have comprehended them. All questions that remain unclear after examining the results of post-test will be explained to the participants.

- 3.1.1. Post test of the course.
- 3.1.2. Self evaluation of the answers.
- 3.1.3. Discussion of the test results and explanation of common mistakes.
- 3.1.4. Increasing the impact of audits.

Teaching Method	Time
	9:00-10:30
3.1.1. Post test of the course	60 min
3.1.2. Self evaluation of the answers	30 min
Break	10:30-11:00
	11:00-12:30
3.1.3. Discussion in the class	40 min
3.1.4. Group discussion followed with presentations in the class	50 min

Session-at-a-glance

## Session title: 3.2. Defining developmental needs within SAIs

## **Session Learning Objective:**

Participants acquire knowledge about obstacles to environmental audits and methods to overcome them.

- 3.2.1. Obstacles to effective environmental auditing.
- 3.2.2. Preconditions for conducting environmental audits (incl mandate, staffing needs).
- 3.2.3. Defining the developmental needs within SAIs and ways to overcome the obstacles to environmental audit

Teaching Method	Time
	13:30-15:00
3.2.1. Group discussion followed with presenting the results to the class	50 min
3.2.2. Lecture	40 min
Break	15:00-15:30
	15:30-17:00
3.2.3. Group discussion followed with presenting the results to the class	90 min

Session-at-a-glance

### Session title: 3.3. Individual work and consultation with expert

### **Session Learning Objective:**

Participants acquire thorough understanding of their personal development needs and the developmental needs within their SAIs regarding environmental audit.

- 3.3.1. Defining and presenting developmental needs of the participant's SAI.
- 3.3.2. Preparation of a PowerPoint presentation in consultation with experts. Each participant will have the opportunity to discuss the development needs of their own SAI with an expert. Experts will also discuss the progress of each participant based on that participant's training diary.

Teaching Method	Time
	9:00-10:00
3.3.1. Lecture. Introduction of the task 3.3.2.	30 min
3.3.2. Individual work/ consultation with expert	60 min
Break	10:30-11:00
3.3.2. Individual work (continued)/ consultation with expert	
Lunch	12:30-13:30
3.3.2. Individual work (continued)/ consultation with expert	90 min
Break	15:30-17:30
3.3.2. Individual work (continued)/ consultation with expert	90 min

Session-at-a-glance

## Session title: 3.4. Development needs within SAIs

## **Session Learning Objective:**

Participants acquire knowledge of the development needs and potential solutions in other SAIs.

- 3.4.1. Variety of development needs within SAIs.
- 3.4.2. Key development need within SAIs regarding environmental audit.

Teaching Method	Time
	9:00-10:30
3.4.1. Participants present their presentations in groups	90 min
Break	10:30-11:00
	11:00-12:30
3.4.2. Up to 6 SAI presentations in the class	90 min