![World Health Organization — European Region]

Catalogue of WHO guidance, assessment and review tools and trainings on Border Health and Points of Entry

May 2023

This catalogue is a living document providing a general overview of currently available World Health Organization(WHO) resources on Border Health & Points of Entry (PoE) which are non-hazard specific. It will be updated on a regular basis as new guidance and tools become available.

The target audience for this catalogue are health authorities in Member States working on developing, strengthening and maintaining International Health Regulations (2005) public health capacities for border health, including at ports, airports and ground crossings.

This catalogue lists WHO resources in the following order:

1. WHO homepage on Border Health and PoE

2. WHO guidance

- All PoE
- Specific for airports and air transport, ground crossings and seaports and sea transport

3. Assessment and review tools

4. Trainings
- WHO online trainings for PoE & Border Health
- Face-to-Face trainings

For further information please contact the country health emergency preparedness and IHR (2005) programme, Health Emergencies Programme, WHO Regional Office for Europe at europcb@who.int
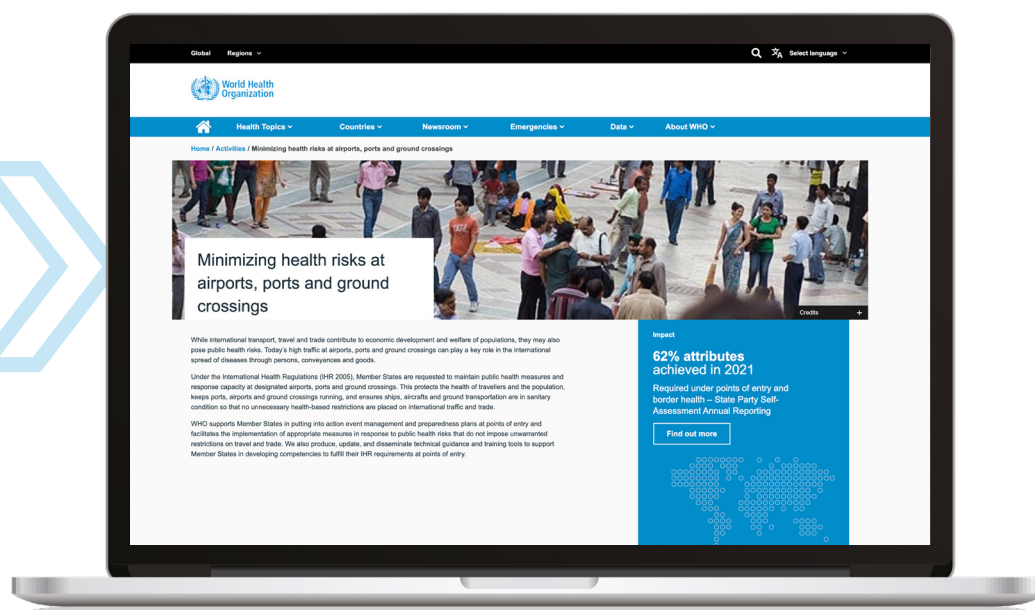
1. **WHO** homepage on Border Health and PoE

1.0   **Border Health and PoE**

A WHO webpage on minimizing health risks at airports, ports and ground crossings.

Minimizing health risks at airports, ports and ground crossings. In: World Health Organization [website]. Geneva: World Health Organization; 2023 (https://www.who.int/activities/minimizing-health-risks-at-airports-ports-and-ground-crossings).

Publications. In: Minimizing health risks at airports, ports and ground crossings, World Health Organization [website]. Geneva: World Health Organization; 2023 (https://www.who.int/activities/minimizing-health-risks-at-airports-ports-and-ground-crossings/publications).

WHO
Guidance

---

2. WHO guidance

2.1   Guidance for all PoE

Public health emergency contingency planning at designated PoE

This guide provides a recommended approach, structure and a logical set of considerations for the national PoE health authority to guide local PoE health officers and emergency planners responsible for PoE to develop a public health emergency contingency plan at a designated PoE.

International health regulations (2005): a guide for public health emergency contingency planning at designated points of entry. Manilia: WHO Regional Office for the Western Pacific; 2012 (https://apps.who.int/iris/handle/10665/206918).

🌐 **Available in English**

Vector surveillance and control at PoE under the IHR (2005) framework

The purpose of this handbook is to provide guidance to Member States on the practical aspects of maintaining sanitary standards at international borders and PoE (i.e., ports, airports and ground crossings) including technical advice for developing a comprehensive programme for the systematic monitoring of disease vectors and integrated vector control at PoE.

Vector Surveillance and Control at Ports, Airports and Ground crossings. Geneva: World Health Organization; 2016 (https://apps.who.int/iris/handle/10665/204660).

🌐 **Available in English, Chinese, Japanese, Turkish, French, Russian and Spanish**

Coordination of public health surveillance between PoE and the national public health surveillance system

This guide aims to support competent authorities in charge of IHR (2005) implementation in improving national capacities for the prevention, detection and control of events, by strengthening communication and coordination between PoE and the National Public Health Surveillance System.

Coordination of public health surveillance between points of entry and the national public health surveillance system: advising principles, 2nd ed. Geneva:World Health Organization; 2018 (https://apps.who.int/iris/handle/10665/274366).

🌐 **Available in English**

2.2 Other guidance relevant for all PoE

Early detection, assessment and response to acute public health events: implementation of early warning and response with a focus on event-based surveillance

The goal of this document is to provide national health authorities and stakeholders with guidance for implementing or enhancing the all-hazards early warning and response within national surveillance systems.

Early detection, assessment and response to acute public health events: implementation of early warning and response with a focus on event-based surveillance: interim version. Geneva: World Health Organization; 2014 (https://apps.who.int/iris/handle/10665/112667).

🌐 **Available in English, Russian, French and Spanish**

Country implementation of a national action plan for health security (NAPHS)

This guidance aims to consolidate technical guidance to countries for NAPHS development and implementation including at PoE.

NAPHS for all: a country implementation guide for national action plan for health security (NAPHS). Geneva: World Health Organization; 2019 (https://apps.who.int/iris/handle/10665/312220).

🌐 **Available in English**

WHO benchmarks for International Health Regulations (2005) capacities

This document guides States Parties, partners, donors and international and national organizations on suggested actions needed to improve IHR (2005) capacities for health security. States Parties and other entities working to reduce the risk of global health threats can use these benchmarks and suggested actions to address gaps, including those identified by IHR (2005) monitoring and evaluation framework.

World Health Organization. (2019). WHO benchmarks for International Health Regulations (IHR)capacities. World Health Organization; 2019 (https://apps.who.int/iris/handle/10665/311158).

🌐 **Available in English**

2.3 Guidance for airports and air transport

Management of public health events at air transport

Based on input from stakeholders, this handbook draws on the scientific literature to provide substantive public health guidance on public health events related to airports and air transport. It aims to support the development of national or site-specific operational guidelines and standard operating procedures (SOPs) on emergency preparedness and response to public health events in the air transport sector.

Handbook for the management of public health events in air transport: updated with information on Ebola virus disease and Middle East respiratory syndrome coronavirus. Geneva: World Health Organization; 2016 (https://apps.who.int/iris/handle/10665/204628).

🌐 **Available in English, Chinese, Turkish, French, Spanish and Russian**

Aircraft disinfection

The document describes the latest methods and procedures for aircraft disinfection – updating a WHO 1995 publication. The guidance describes the methods and procedures for effective disinfection but is not intended to cover all issues related to aircraft disinfection comprehensively.

WHO aircraft disinfection methods and procedures. Geneva: World Health Organization; 2021 (https://apps.who.int/iris/handle/10665/339863).

🌐 **Available in English**

Hygiene and sanitation in aviation, second edition

This guide contains modules on the handling of food, toilet sanitation, liquid waste disposal and solid waste, as well as cargo and vector control at airports and aviation in general.

Bailey, James & World Health Organization. Guide to hygiene and sanitation in aviation, 2nd ed. Geneva: World Health Organization; 1997 (https://apps.who.int/iris/handle/10665/40280).

🌐 **Available in English, French and Spanish**

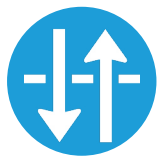## Hygiene and sanitation in aviation, third edition

This guide addresses water (module 1) and the cleaning and disinfection of facilities (module 2) with the goal of assisting all types of airport and aircraft operators and all other responsible bodies in achieving high standards of hygiene and sanitation.

Guide to hygiene and sanitation in aviation, 3rd edition. Geneva: World Health Organization; 2009 (https://apps.who.int/iris/handle/10665/44164).

🌐 **Available in English, Russian and Spanish**

2.4 Guidance for ground crossings

Public health capacity-building at ground crossings and cross-border collaboration

This handbook details a comprehensive approach to health system strengthening at borders to support IHR (2005) national focal points and other national agencies in developing and implementing evidence-based action plans for IHR (2005) capacity development at ground crossings.

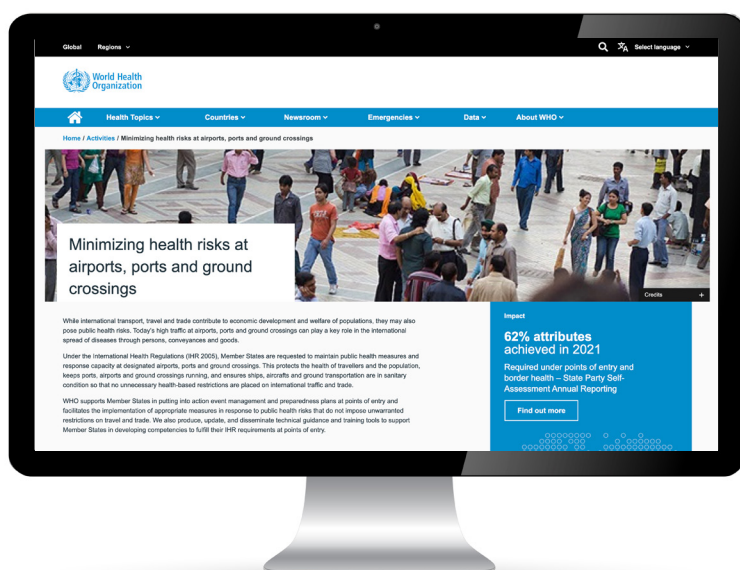Handbook for public health capacity-building at ground crossings and cross-border collaboration. Geneva: World Health Organization; 2020 (https://apps.who.int/iris/handle/10665/331534).

🌐 **Available in English and Russian**

Standard operating procedures for public health emergency preparedness at ground crossings

The aim of these standard operating procedures (SOPs) is to provide a step-by-step process on conducting field-testing exercises. Following testing, further revisions will be considered to improve the comprehension and application of this tool. They have been developed based on best practice in WHO African Region countries.

These SOPs have not been published, but countries are welcome to put forward requests to test and use them at ground crossings.

2.5 Guidance for inland ports, seaports and sea transport

Management of public health events on board ships
This document aims to provide technical advice to relevant authorities at the port level for the management of public health events on board ships.

Handbook for the management of public health events on board ships. Geneva: World Health Organization; 2016 (https://apps.who.int/iris/handle/10665/205796).

🌐 **Available in English, Chinese, French, Spanish and Russian**

Ship inspection and issuance of ship sanitation certificates
This guidance aims to help prevent and control known public health risks (not just rodents) and provide a common way to register and communicate events and measures taken on board. The handbook intends to raise conveyance operators' awareness and response to public health events and provide the opportunity for routine verification of health status on board at least twice each year.

Handbook for inspection of ships and issuance of ship sanitation certificates. Geneva: World Health Organization; 2011 (https://apps.who.int/iris/handle/10665/44594).

🌐 **Available in English, Estonian, French, German, Japanese, Russian, Spanish and Turkish**

Ship sanitation
The primary aim of the revised Guide to Ship Sanitation is to present the public health significance of ships in terms of disease and to highlight the importance of applying appropriate control measures. The guide is intended to be used as a basis for the development of national approaches to controlling the hazards that may be encountered on ships, as well as providing a framework for policy-making and local decision-making.

Guide to Ship Sanitation, 3rd Edition. Geneva: World Health Organization; 2011 (https://apps.who.int/iris/handle/10665/43193).

🌐 **Available in English, Chinese, Japanese, Russian and Turkish**

IHR (2005) list of authorized ports
A list of ports and other information submitted by States Parties concerning ports authorized to issue Ship Sanitation Certificates.

IHR (2005) List of Authorized Ports. Geneva: World Health Organization; 2023 (https://extranet.who.int/ihr/poedata/public/en).

🌐 **Available in English, Russian, French and Spanish**

ASSESMENT
and review tools

———

3. ASSESMENT and review tools

3.0 Assessement and review tools

Assessment of core capacity requirements at designated airports, ports and ground crossings

The WHO Regional Office for Europe may support countries in assessing existing capacities and capacity needs at PoE when deciding which airports, ports and ground crossing to designate under Article 20.1 and Annex 1B; or when identifying priority actions to strengthen existing capacities. This tool includes an Excel Spreadsheet File Model for IHR (2005) core capacity assessment at ports, airports and ground crossings.

International Health Regulations (2005): assessment tool for core capacity requirements at designated airports, ports and ground crossings. Geneva: World Health Organization; 2009 (https://apps.who.int/iris/handle/10665/70839).

🌐 **Available in English, Russian, French and Spanish**

State Party self-assessment annual reporting (IHR (2005))

This is a mandatory tool under the IHR (2005) Monitoring and Evaluation Framework that facilitates the process for States Parties to fulfil the obligation under IHR (2005) Art. 54 to report annually on IHR (2005) implementation to the World Health Assembly. It constitutes the primary tool for ensuring mutual accountability between States Parties and the WHO Secretariat.

International Health Regulations (2005): state party self-assessment annual reporting tool, 2nd ed. Geneva: World Health Organization; 2021 (https://apps.who.int/iris/handle/10665/350218).

🌐 **Available in Arabic, Chinese, English, Portuguese, Russian, French and Spanish**

Joint External Evaluation (JEE) (IHR (2005)), third edition

The JEE is a voluntary, collaborative and multisectoral process to evaluate country capacity to prevent, detect and rapidly respond to public health risks occurring naturally or due to deliberate or accidental events. The purpose of the evaluation is to evaluate country-specific status and progress in achieving the core capacity requirements under Annex 1 of the IHR (2005), as well as to recommend priority actions to be taken across the 19 technical areas being evaluated.

Joint external evaluation tool: International Health Regulations (2005), 3rd ed. World Health Organization; 2022 (https://apps.who.int/iris/handle/10665/357087).

🌐 **Available in English**

Planning, conducting and evaluating simulation exercises for outbreaks and public health emergency preparedness and response

This manual and toolkit are designed to support and develop the exercise practioner's competency to plan, implement and evaluate simulation exercises. Simulation exercises can help develop, assess, and test the functional capabilities of emergency systems, procedures and mechanisms to respond to outbreaks and public health emergencies.

WHO simulation exercise manual: a practical guide and tool for planning, conducting and evaluating simulation exercises for outbreaks and public health emergency preparedness and response. Geneva: World Health Organization; 2017 (https://apps.who.int/iris/handle/10665/254741).

🌐 **Available in English, Arabic, Chinese, French, Russian and Spanish**

After action review (AAR)

This AAR guidance document and toolkit aim to assist Member States in planning, preparing and conducting AARs for collective learning and operational improvement after a public health response. The AAR is one component of the International Health Regulations (IHR) (2005) Monitoring and Evaluation Framework.

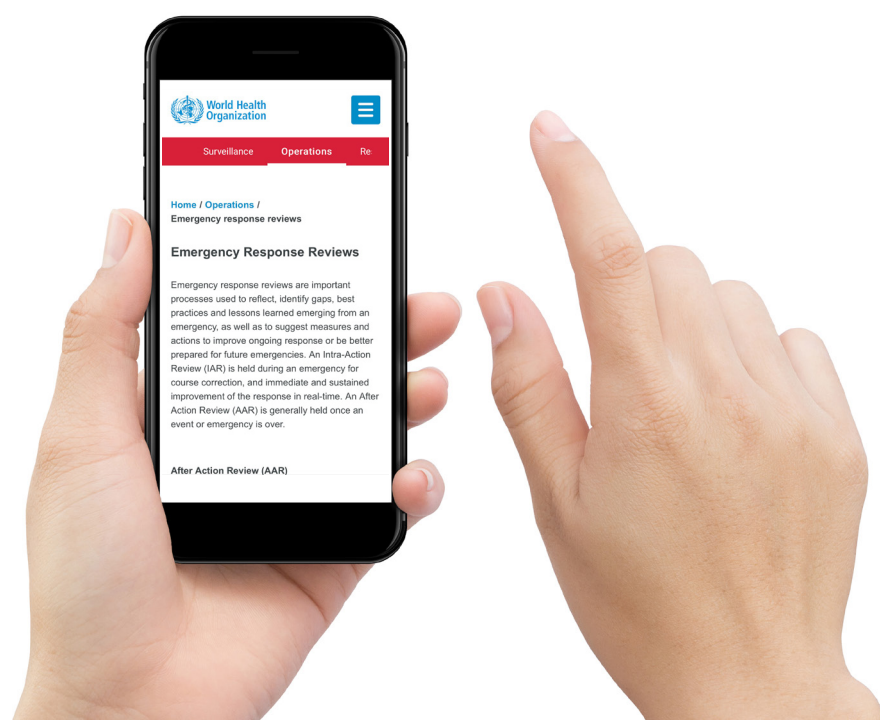Guidance for after action review (AAR). Geneva: World Health Organization; 2019 (https://apps.who.int/iris/handle/10665/311537).

🌐 **Available in English, French and Russian**

Emergency Response Reviews. In World Health Organization [website]. Geneva: World Health Organization; 2023 (https://www.who.int/emergencies/operations/emergency-response-reviews).

🌐 **Available in English**

TRAININGS

4. TRAININGS

4.1 Specific WHO online trainings for PoE

Public Health Event Management in Air Transport.
The material for this training comes from the WHO Handbook for the Management of Public Health Events in Air Transport. It focuses on communicable diseases, but as directed by the IHR (2005) also considers the multi-hazard (biological, chemical and radiological) approach.

Available via the Health Security Learning Platform upon Request.

Public Health Event Management In Air Transport. In: Health Security Learning Platform. Geneva: World Health Organization; 2023 (https://extranet.who.int/hslp/training/course/index.php?categoryid=57).

🌐 **The course is offered in English**

Ship sanitation inspection and issuance of ship sanitation certificate training course
The training programme aims to provide training to the relevant authorities involved in ship inspection to ensure consistency in the quality of ship inspections and issuance of ship sanitation certificates worldwide.

Available on the Health Security Learning Platform:

Ship Sanitation Inspection and Issuance of Ship Sanitation Certificate Training course. Geneva: World Health Organization 2016 (https://extranet.who.int/hslp/training/course/index.php?categoryid=24).

🌐 **The course is offered in Arabic, English, French, Japanese, Portuguese, Russian, Spanish and Thai**

IHR (2005) at PoE

A structured and comprehensive set of training resources – including standard quality material, expert and peer support – to help professionals design and organize training modules on the IHR (2005).

Available on the Health Security Learning Platform:
IHR (2005)training toolkit. Geneva: World Health Organization; 2016
(https://extranet.who.int/hslp/package/ihr-training-toolkit).

🌐 **The course is offered in Arabic, English, French and Russian**

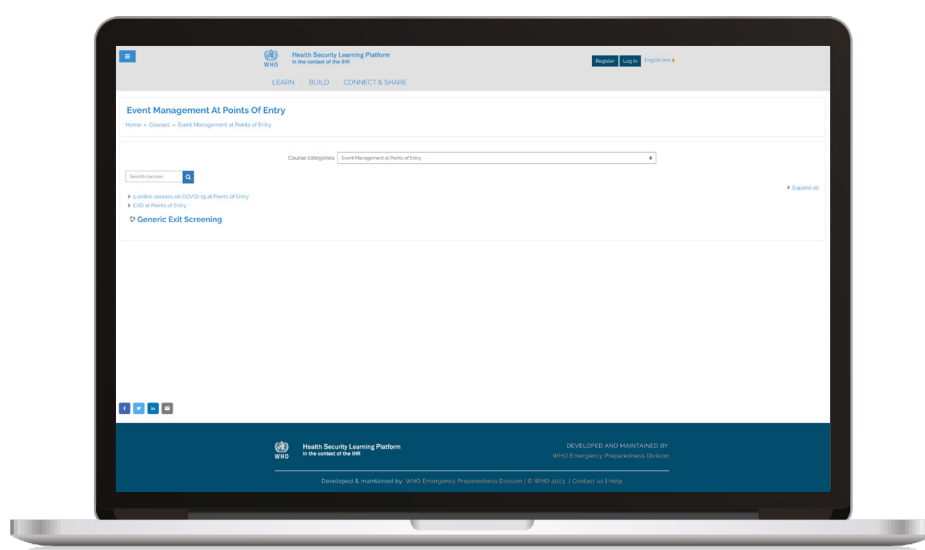### Generic exit screening at ports, airports and land crossings

A module on generic exit screening within an event management at PoE course.

Available upon request from the Health Security Learning Platform:
Generic Exit Screening. In: Event Management at Points of Entry [online course].
Geneva: World Health Organization
(https://extranet.who.int/hslp/training/course/index.php?categoryid=36).

🌐 **The course is offered in English**

4.2 Other relevant online trainings for PoE

Management and facilitation of an AAR

An introductory course on the management and facilitation of an AAR following the response to an event of public health concern.

Management and Facilitation of an After-Action Review (AAR). In: openWHO [website]. Geneva: World Health Organization; 2023 (https://openwho.org/courses/AAR-en).

🌐 **The course is offered in English and Ukrainian**

Health security and IHR (2005)

Training Catalogue on Health Security and IHR (2005) with a module on PoE.

Health Security and The International Health Regulations (2005): Training Catalogue; Winter 2020 / 2021. Geneva: World Health Organization; 2021 (https://ihr-learning.cld.bz/Training-Catalogue-on-Health-Security-and-IHR).

🌐 **Available in English**

Simulation exercise management

A course to introduce simulation exercises and their value as part of wider emergency pre-paredness to raise awareness among a non-technical audience.

Simulation Exercise Management: Introduction. In: openWHO [website]. Geneva: World Health Organization (https://openwho.org/courses/simex).

🌐 **Available in English, French and Ukrainian**

Electronic early warning, alert and response system (EWARS) implementation in emergencies

The EWARS-in-a-box online training supports epidemiologists, surveillance officers and front-line responders in emergency settings to detect disease outbreaks early and respond rapidly. The self-paced online course covers all key aspects of establishing an electronic early warning, alert and response system in an emergency setting.

EWARS in a box: electronic early warning, alert and response system implementation in emergencies. In: openWHO [website]. Geneva: World Health Organization; 2022 (https://openwho.org/courses/EWARS-in-a-box).

🌐 **Available in English**

SocialNet: Empowering communities before, during and after an infectious disease outbreak

This course provides an overview of operational concepts in relation to community engagement, risk communication, and the application of social science interventions.

SocialNet: Empowering communities before, during, and after an infectious disease outbreak. In openWHO [website]. Geneva: World Health Organization. (https://openwho.org/courses/empowering-communities).

🌐 **Available in English, Spanish, French, Russian, Chinese and Arabic**

Risk communication essentials

This course covers real-time exchange of information, advice and opinions between experts, officials and people who face a threat to their well-being.

Risk communication essentials (English/Portuguese) In openWHO [website]. Geneva: World Health Organization. (https://openwho.org/courses/risk-communication).

🌐 **Available in English, Portuguese, French, Chinese and Arabic**

4.3 Available Face-to-Face trainings

Assessment of core capacity requirements at designated airports, ports and ground crossings

The WHO Regional Office for Europe may support countries in assessing existing capacities and capacity needs at PoE when deciding which airports, ports and ground crossing to designate under IHR (2005) Article 20.1 and Annex 1B; or when identifying priority actions to strengthen existing capacities.

Inspection of ships and issuance of ship sanitation certificates

A train-the-trainers programme for global professionals with significant experience in issuing ship sanitation exemption, control and extension certificates for different types of vessels.

Multi-hazard PoE simulation exercises

Off the shelf PoE simulation exercises to examine and strengthen countries' existing plans, procedures and capabilities at PoE including for managing suspected cases in international travel.

The development of public health contingency plans for PoE

Training for relevant authorities on the development of a public health contingency plan for PoE.

The World Health Organization (WHO) is a specialized agency of the United Nations created in 1948 with the primary responsibility for international health matters and public health. The WHO Regional Office for Europe is one of six regional offices throughout the world, each with its own programme geared to the particular health conditions of the countries it serves.

World Health Organization
Regional Office for Europe

UN City, Marmorvej 51,
DK-2100 Copenhagen Ø, Denmark
Tel.: +45 45 33 70 00   Fax: +45 45 33 70 01
Email: eurocontact@who.int
Website: www.who.int/europe