

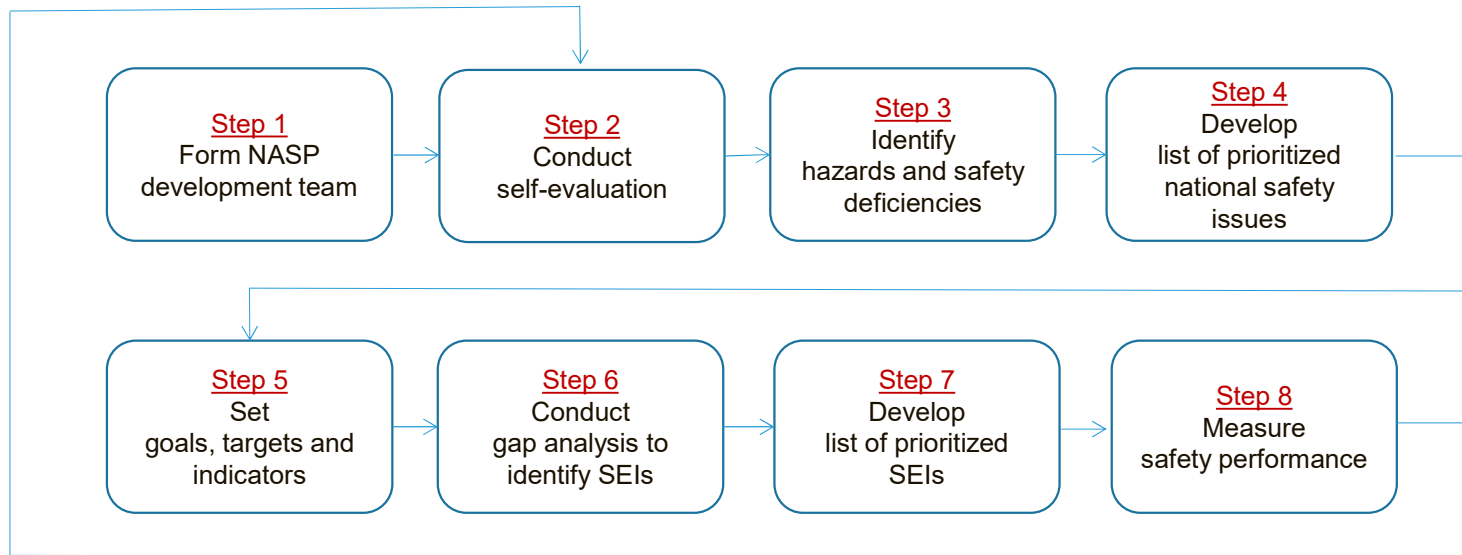
Session 7

How to Develop a NASP

Overview

- NASP development process
- 8 steps to develop NASP
- Guidance & templates

NASP Development Process



**Same steps & rationale should be used when developing RASP*



Process Assists Develop NASP that:

- Identifies hazards & safety deficiencies
- Contains list of prioritized safety issues
 - in form of ops safety risks & ORG challenges
- Sets safety goals and targets
 - i.e. strategic direction for management of safety
- Presents specific SEIs >> action plan
- Defines how safety performance will be measured
 - to monitor NASP implementation + effectiveness

Step 1 — Form Development Team

- Begin by assigning responsible entity to lead NASP development
- Once State has assigned responsible entity
 - that entity should form development team
 - identify stakeholders early in process
 - team is responsible for completing steps 2 to 8
- Output from this step:
 - NASP development team membership list



Step 2 — Conduct Self-evaluation

- Conduct evaluation of situation in State
 - to understand current operational context
 - in which NASP will be implemented
 - activity referred to as “self-evaluation” (output from step 2)
- Understanding ops context includes
 - analysis of established capabilities
 - system size & level of complexity
 - available resources





- Every State has collection of factors
 - that may contribute to
 - or otherwise affect management of aviation safety
- Key part of NASP development process is
 - identifying State's strengths & enablers
 - that can promote change & build upon these
- Refer to “ops context description” criterion
 - in Standardized Framework for Identification of ORG Challenges

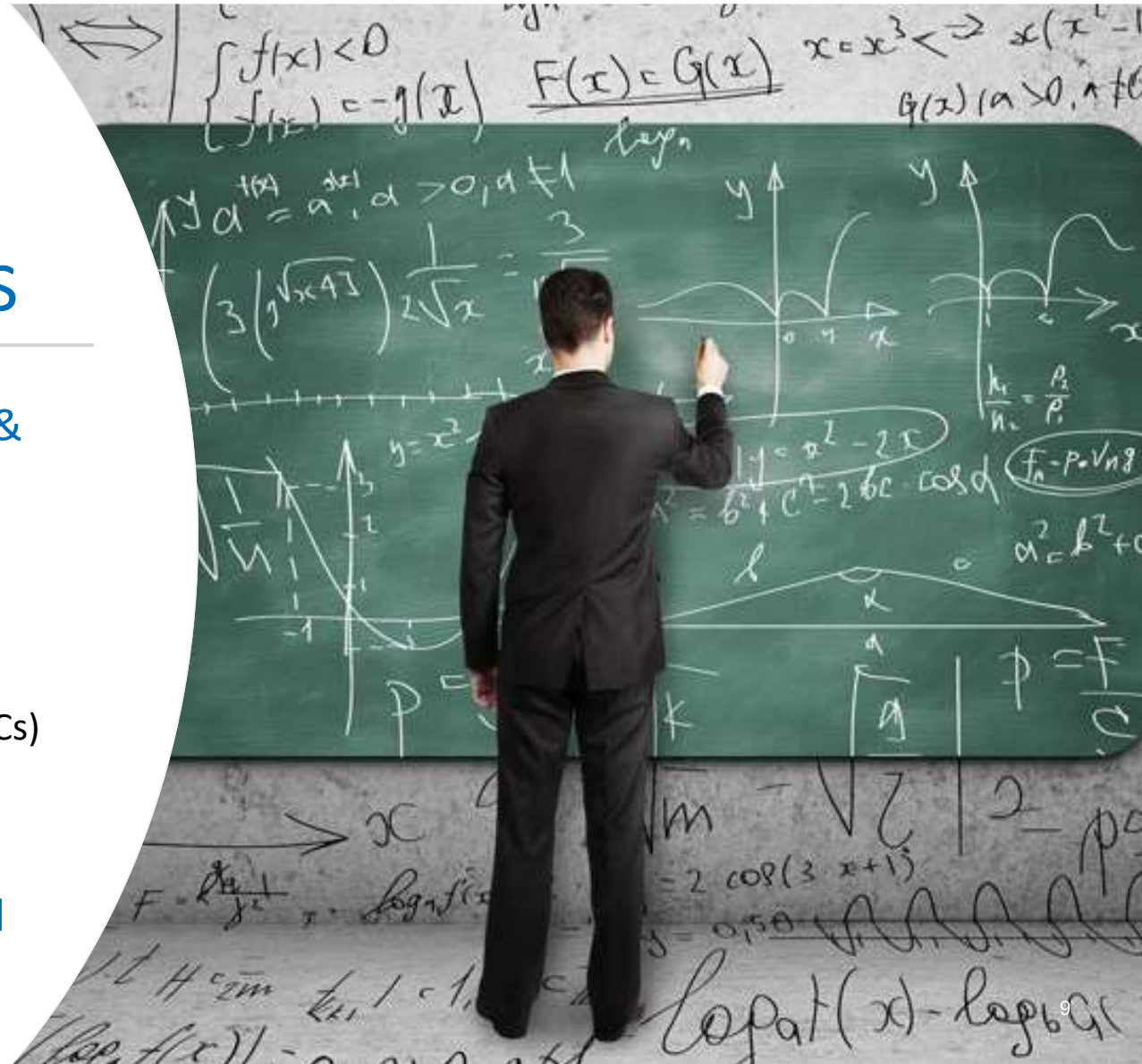
Step 3 — Identify Safety Deficiencies

- Identify series of hazards & safety deficiencies to be addressed
 - as well as stakeholders to be involved in addressing them
 - based on results of self-evaluation
 - completes it by looking at specifics
- In context of NASP, hazards & safety deficiencies include
 - Ops safety risks & ORG challenges
- Conduct analyses / use existing analyses / other info
 - team may identify additional stakeholders & new team members



Step 3 — Identify Safety Deficiencies

- Prepare list of identified hazards & safety deficiencies
 - output from this step
- List should describe
 - national ops safety risks (incl. N-HRCs)
 - ORG challenges
- List will become basis for national safety issues



Step 4 – Develop List of Issues

- Step 3 enables team to
 - develop list of prioritized national safety issues
 - which will later be transformed into goals & targets
- During this step
 - review list of hazards & safety deficiencies
 - determine which ones should be given priority
 - as national safety issues to be addressed in NASP
- Use quantitative approach to prioritize
 - if not feasible >>> rely on SMEs in team
- Priority should be given to issues that have greatest impact on safety



Step 4 – Develop List of Issues

- For ops safety risks
 - categorize certain types of events as N-HRCs
 - consider them of utmost priority
 - because of number of fatalities and risk of fatalities associated with such events
- For ORG challenges
 - categorize certain ORG challenges as national safety issues
 - consider them of utmost priority
 - because they are systemic issues, which impact effectiveness of risk controls
- Output from this step > List of prioritized national safety issues



Step 5 – Set Goal, Targets & Indicators

- Use list of national safety issues
 - to set goals & targets
- National safety issues that were given priority (in step 4)
 - can be formulated into statements that set goals & targets
 - within NASP
- Output from this step > List of national safety goals, targets and indicators



Step 6 – Conduct Gap Analysis for SEIs

- Once team has set goals & targets
 - needs to identify series of SEIs
 - that will enable their achievement
- Conduct a gap analysis
 - to identify specific steps to take
 - to reach each goal & associated targets





- Team should not only focus on weaknesses it needs to address
 - also identify strengths within State that can facilitate closing gap
- To develop SEIs for NASP>> conduct the gap analysis
 - to close the gap through specific actions
 - using Global Aviation Safety Roadmap (Doc 10161)
- Compilation of SEIs will form action plan > output from this step

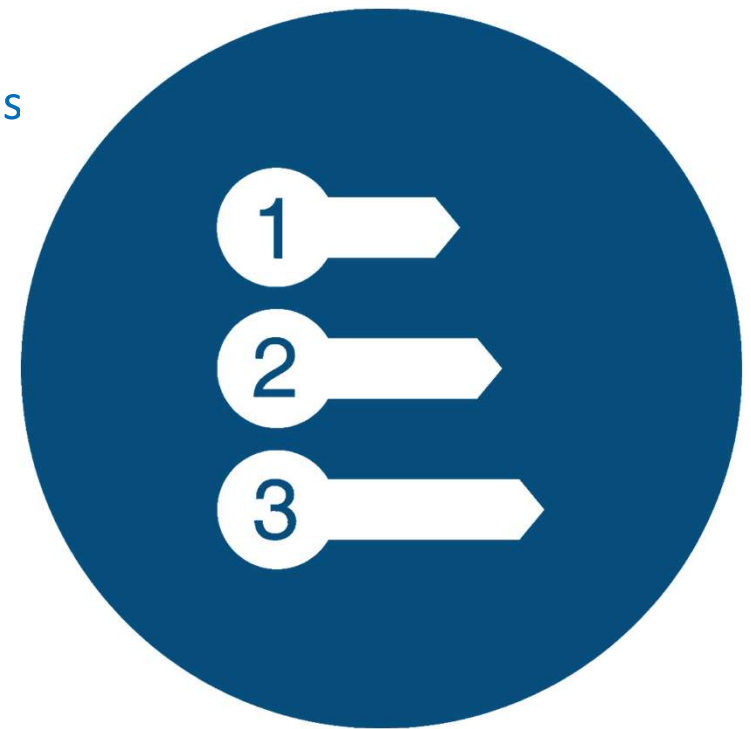
Step 7 – Develop List of Prioritized SEIs

- Review list of potential SEIs
 - by reviewing gaps & associated SEIs
- Select SEIs relevant to State & ops context
 - by listing them in order of priority
- When reviewing gaps identified, evaluate
 - safety impact
 - ability of State to effect change for each gap



Step 7 – Develop List of Prioritized SEIs

- Output from step 7 >> generate prioritized list of SEIs
 - List forms action plan to achieve goals & targets
- Once list of prioritized SEIs is developed
 - team is ready to begin drafting NASP
- NASP may not contain all actions for each SEI
 - Some SEIs may be presented in stand-alone document
 - containing detailed implementation plan
 - NASP should provide summary of SEIs
 - Link or reference to detailed implementation plan may be included in NASP



Step 8 — Measure Safety Performance

- Final step is divided into two separate tasks
 1. Definition of process to monitor implementation of NASP & effectiveness
 2. Actual measurement of safety performance
- For 1st task: include description of aspects
 - refer to Doc 10131, Chapter 4, 4.3.6
- Once process is completed (output)
 - team has all content to finalize NASP drafting
 - use NASP template in Doc 10131
 - or develop own





- After NASP has been finalized
 - Handover SEIs to organizations or individuals responsible for implementation
- Measure safety performance
 - to monitor implementation of NASP
 - assess actual effectiveness in terms of improving safety
- Periodically monitor implementation of SEIs
 - to ensure actions are being accomplished, that they are effective
 - any difficulties with implementation are dealt with > then redo cycle

Guidance & Template

- ICAO developed guidance
 - Doc 10131, *ICAO Manual on the Development of Regional and National Aviation Safety Plans*
- Provides guidelines for RASP/NASP development
- Explains in detail content to be included in plan
- Provides template where State can fill in blanks



Content of Doc 10131, Ed 3

- Introduction
- RASP & NASP development process
 - Incl. Standardized Frameworks
- Guidance for drafting RASP
- Guidance for drafting NASP



Doc 10131

Manual on the Development of Regional
and National Aviation Safety Plans

First Edition, 2020



Approved by and published under the authority of the Secretary General

INTERNATIONAL CIVIL AVIATION ORGANIZATION

NASP Template

- Contains 6 sections
 1. Introduction
 2. Purpose of NASP
 3. National ops safety risks
 4. National ORG challenges
 5. State's strategic direction for management of aviation safety
 6. Monitoring implementation



NASP Template

- All sections include standard “Boilerplate” text
 - text that can be reused in new contexts without significant changes to original
- Indicates when to fill in blanks
 - Name of entity, title of plan, etc.
- Contains lists and tables to fill
 - Issues, Goals, etc.
- Presents examples for blank sections that State must fill in



Checklists in Doc 10131

- Provides checklists
 - for RASP & NASP
- To verify plan completeness
 - in line with GASP
 - and Doc 10131 content



NATIONAL AVIATION SAFETY PLAN CHECKLIST

<i>Doc 10131, Chapter 4, 4.3, Detailed Sections of the NASP (reference)</i>	<i>National aviation safety plan (NASP) content (aspect to be analysed or question to be answered)</i>	<i>Answer (Yes/No or N/A¹)</i>	<i>Reference in State's NASP (if different from template)</i>
4.3.1 Introduction of the NASP			
4.3.1 a)	Does it provide an overview of the NASP, including its structure (sections and their content)?	☐ Yes ☐ No	
4.3.1 b)	Does it note the State's commitment to aviation safety and to the resourcing of activities at the national level to enhance aviation safety by issuing a statement signed by a senior aviation ministerial or government agency representative?	☐ Yes ☐ No	
4.3.1 c)	Does it describe how the NASP is linked to the SSP, where applicable?	☐ Yes ☐ No ☐ N/A	

Points to Remember

- Carry out 8 steps listed in Doc 10131
- Once SEIs completed >> repeat steps
- NASP template provides example & guidance (Doc 10131)
- Checklist to verify completeness of NASP (Doc 10131)

