

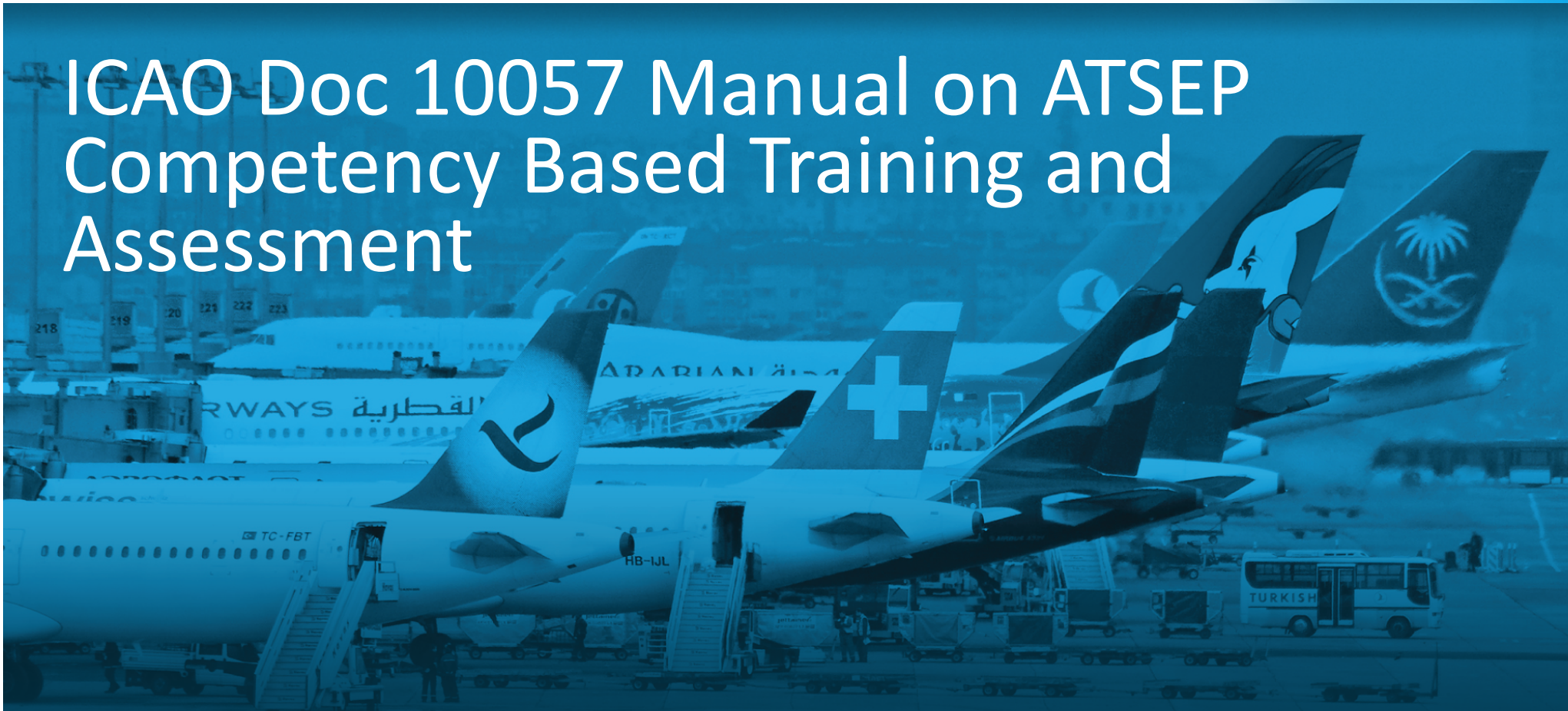


ICAO UNITING AVIATION

NO COUNTRY LEFT BEHIND



# ICAO Doc 10057 Manual on ATSEP Competency Based Training and Assessment





ICAO

UNITING AVIATION

NO COUNTRY LEFT BEHIND



# ATSEP Training Manual

- Purpose of Training Manual
- Highlights of Updated Manual



ICAO

UNITING AVIATION

NO COUNTRY LEFT BEHIND



# Purpose of Training Manual 10057

- This manual provides guidance to ANSPs and training organizations on the development of ATSEP Competency Based Training and Assessment Programs



# New Manual Structure

- Chapter 1 Introduction (Scope, Phases, Paths)
- Chapter 2 Development of CBT and Assessment Program for ATSEP
- Chapter 3 Initial Training Phase
- Chapter 4 Unit Training Phase
- Chapter 5 Continuation Training
- Chapter 6 Developmental Training





# Appendix

- Appendix A Two Examples of Developing CBT
- Appendix B Objectives for Initial Training
- Appendix C Training Objectives Taxonomy
- Appendix D Examples for Development Training



ICAO

UNITING AVIATION

NO COUNTRY LEFT BEHIND



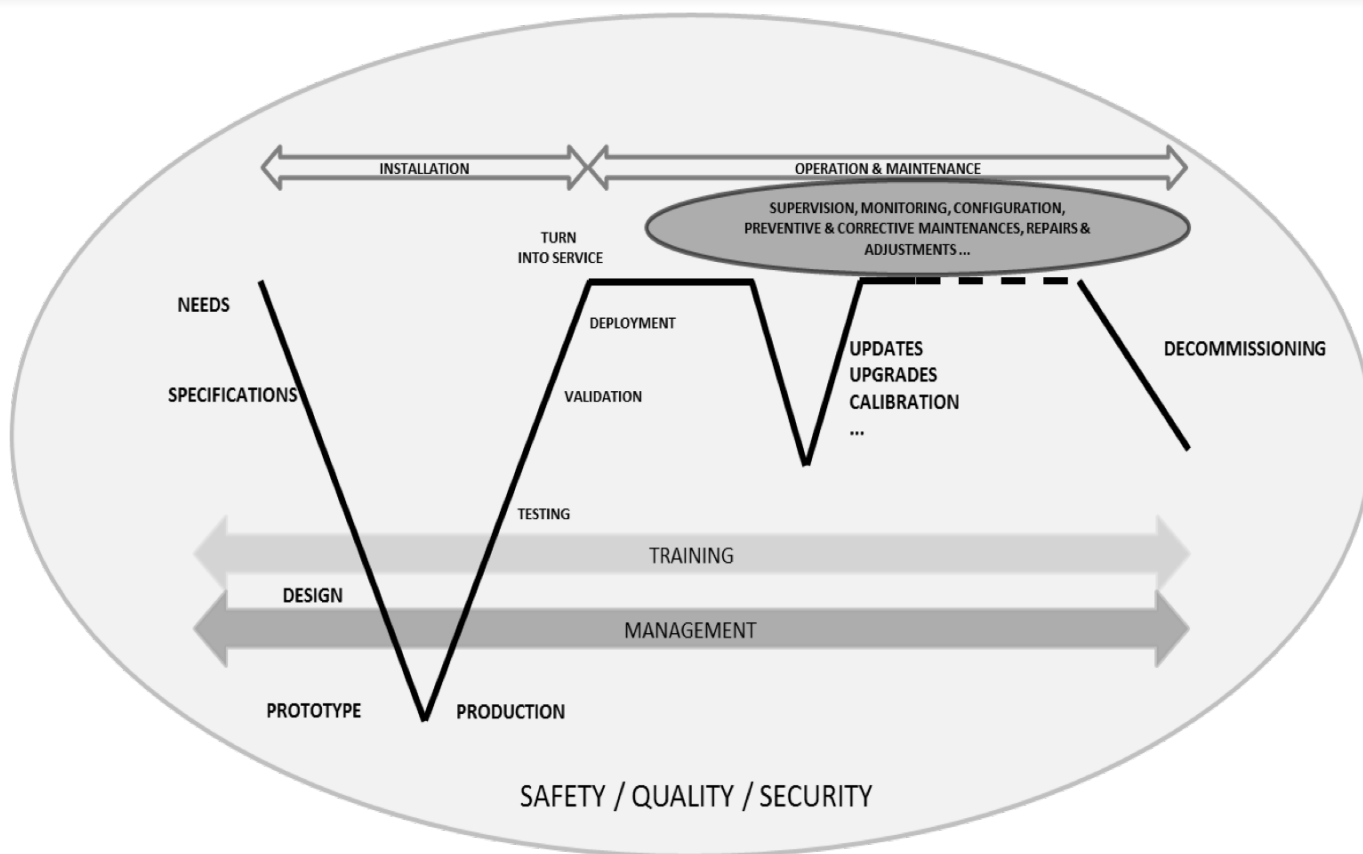
# ATSEP Scope

- Wide variety of Systems/Equipment
- Different levels, from technician to high level engineering
- Requires a wide range of competencies and expertise



ICAO UNITING AVIATION

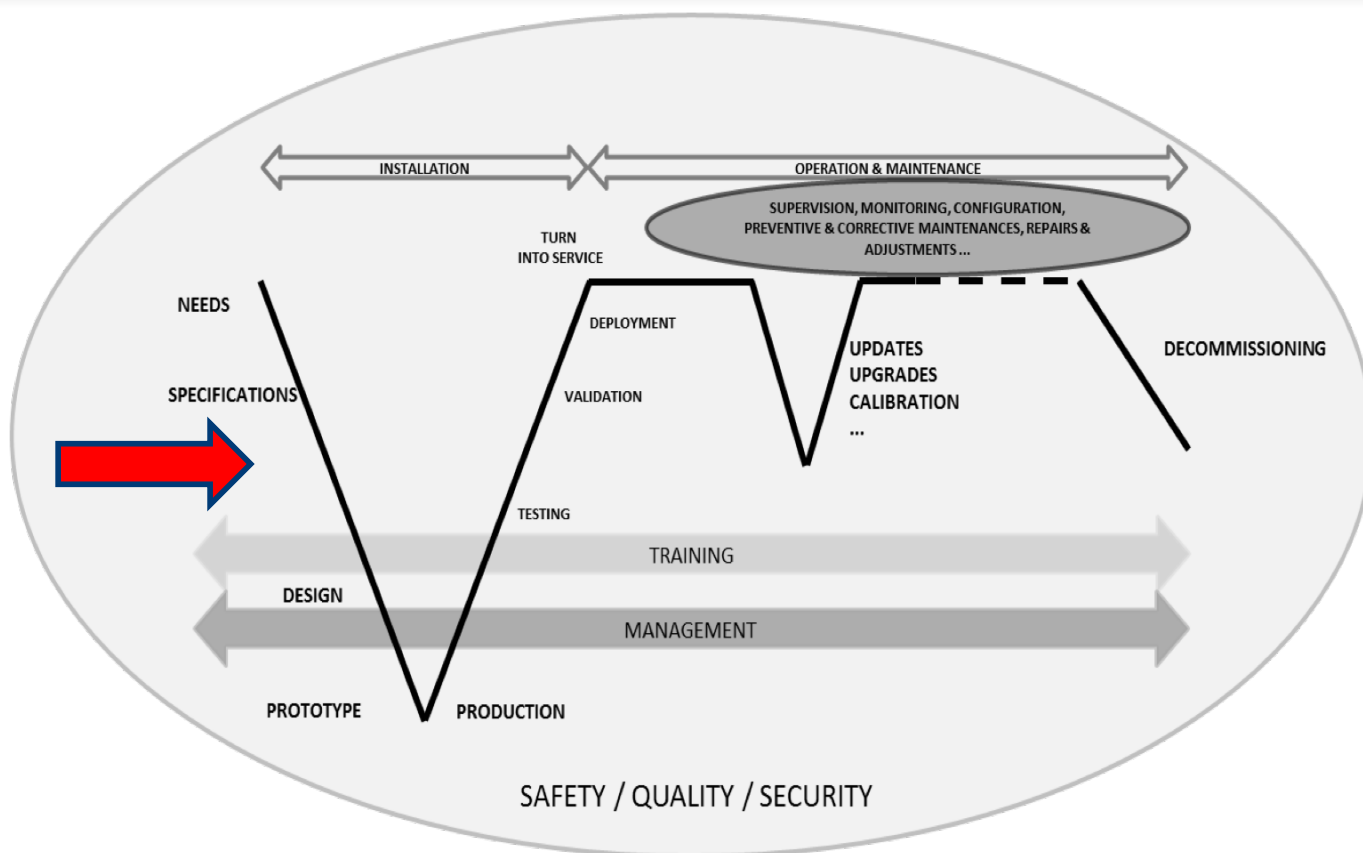
NO COUNTRY LEFT BEHIND





ICAO UNITING AVIATION

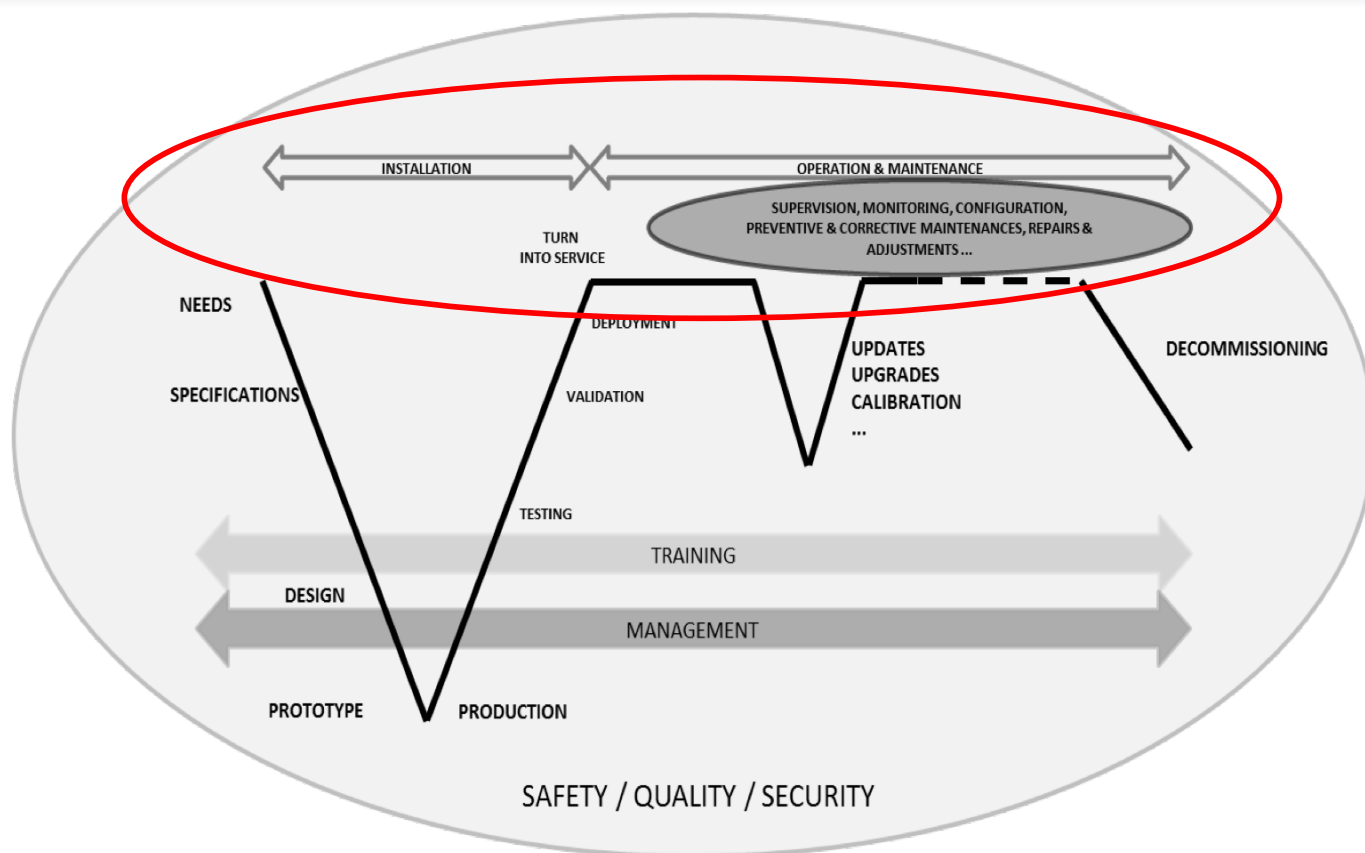
NO COUNTRY LEFT BEHIND





ICAO UNITING AVIATION

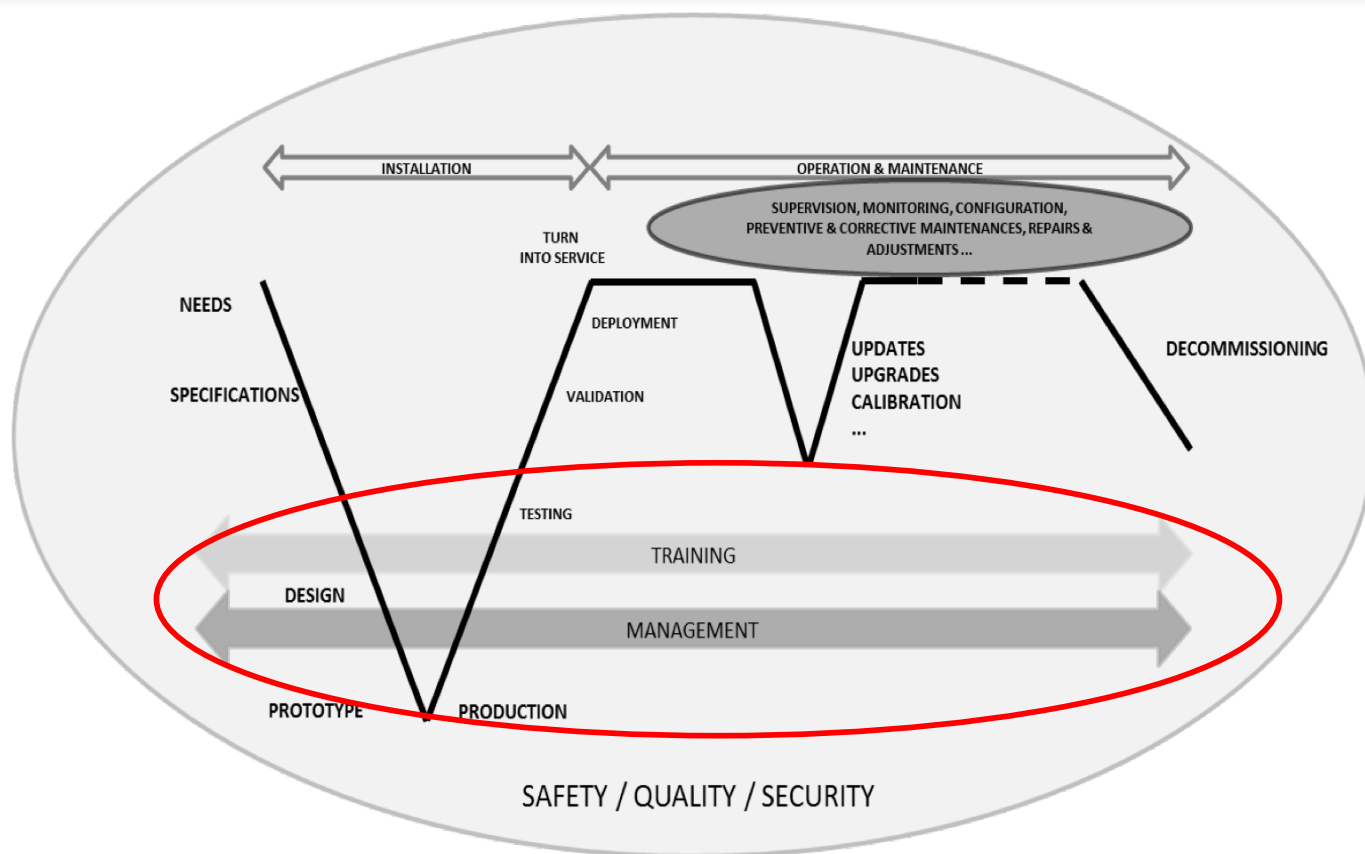
NO COUNTRY LEFT BEHIND





ICAO UNITING AVIATION

NO COUNTRY LEFT BEHIND







ICAO UNITING AVIATION

NO COUNTRY LEFT BEHIND



# Recommended ATSEP Training Phases

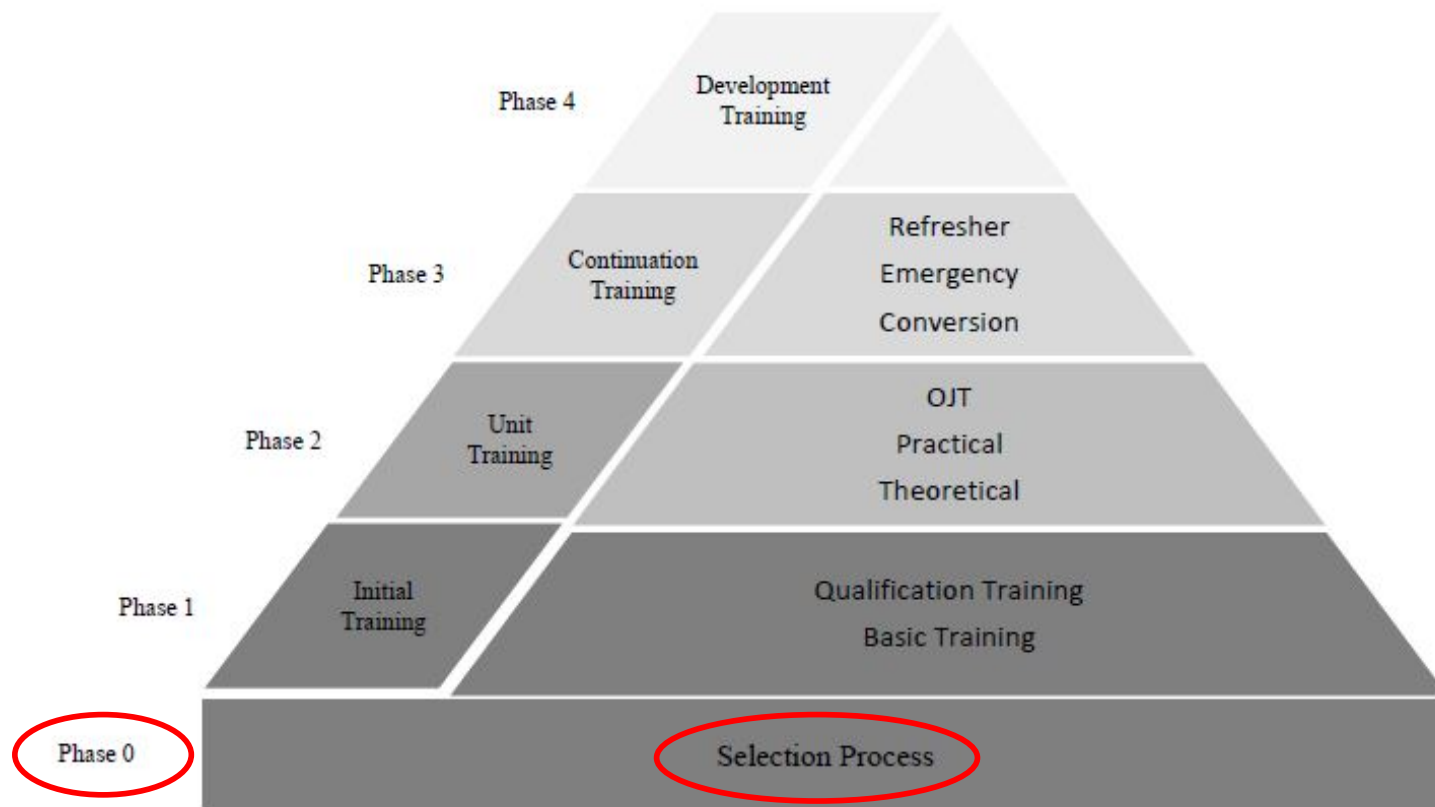


Figure 1-2. ATSEP training phases



Figure 1-2. ATSEP training phases

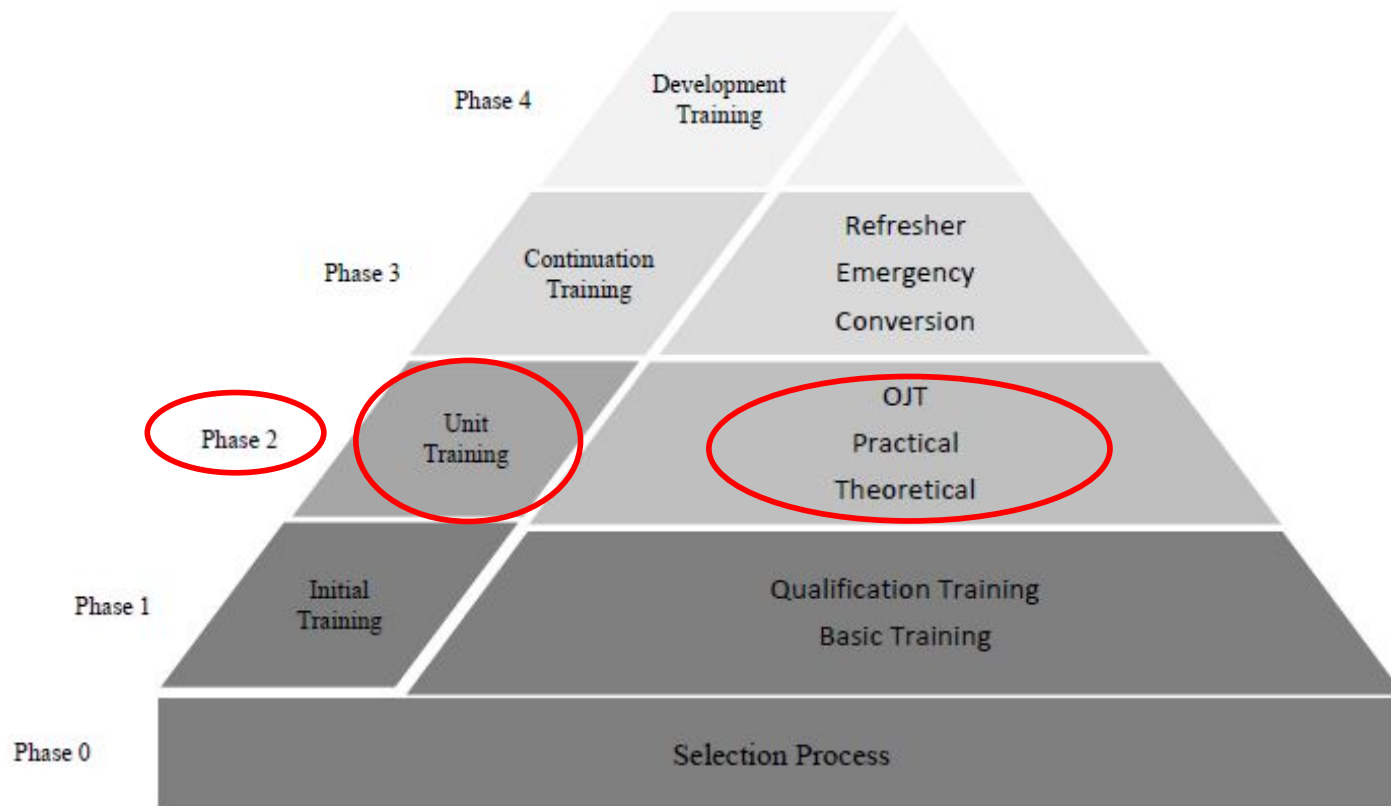


Figure 1-2. ATSEP training phases

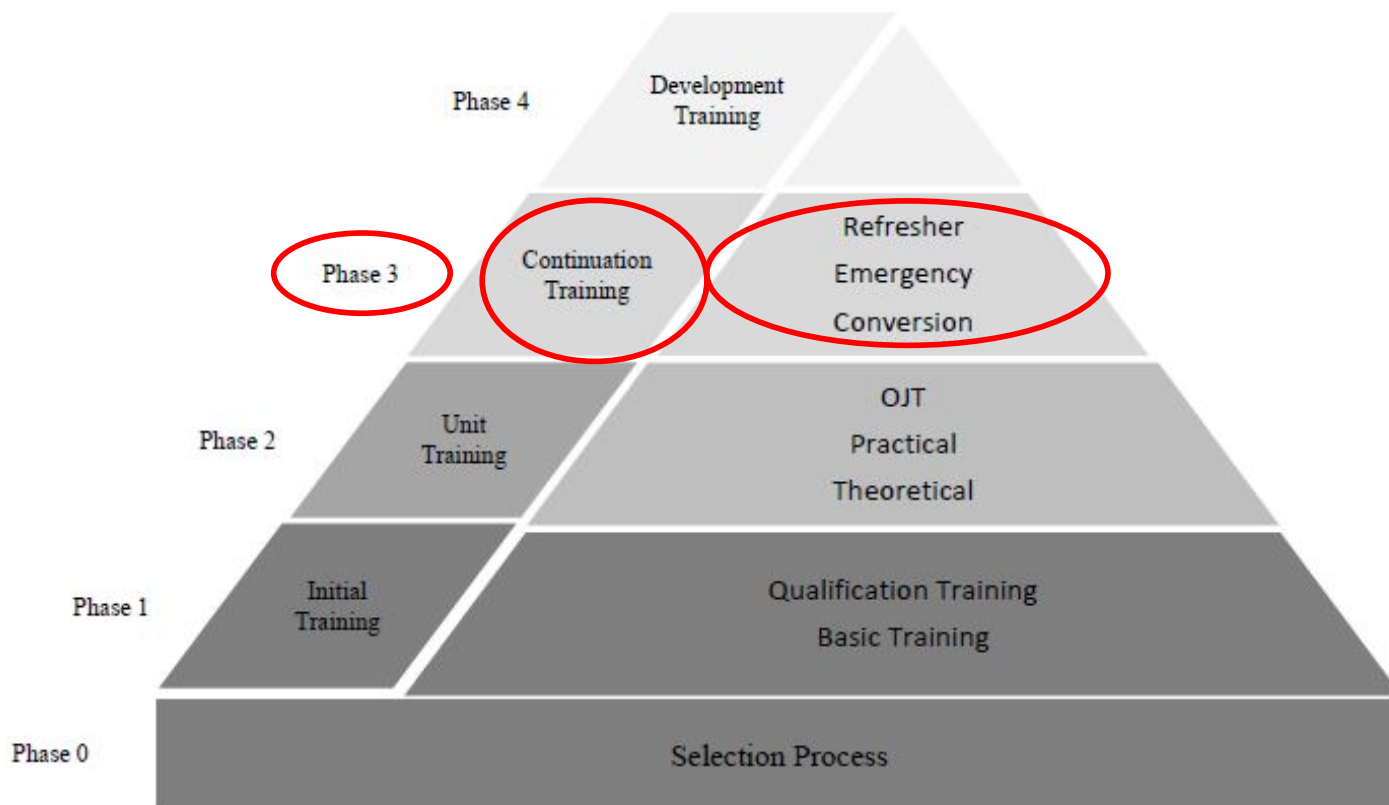
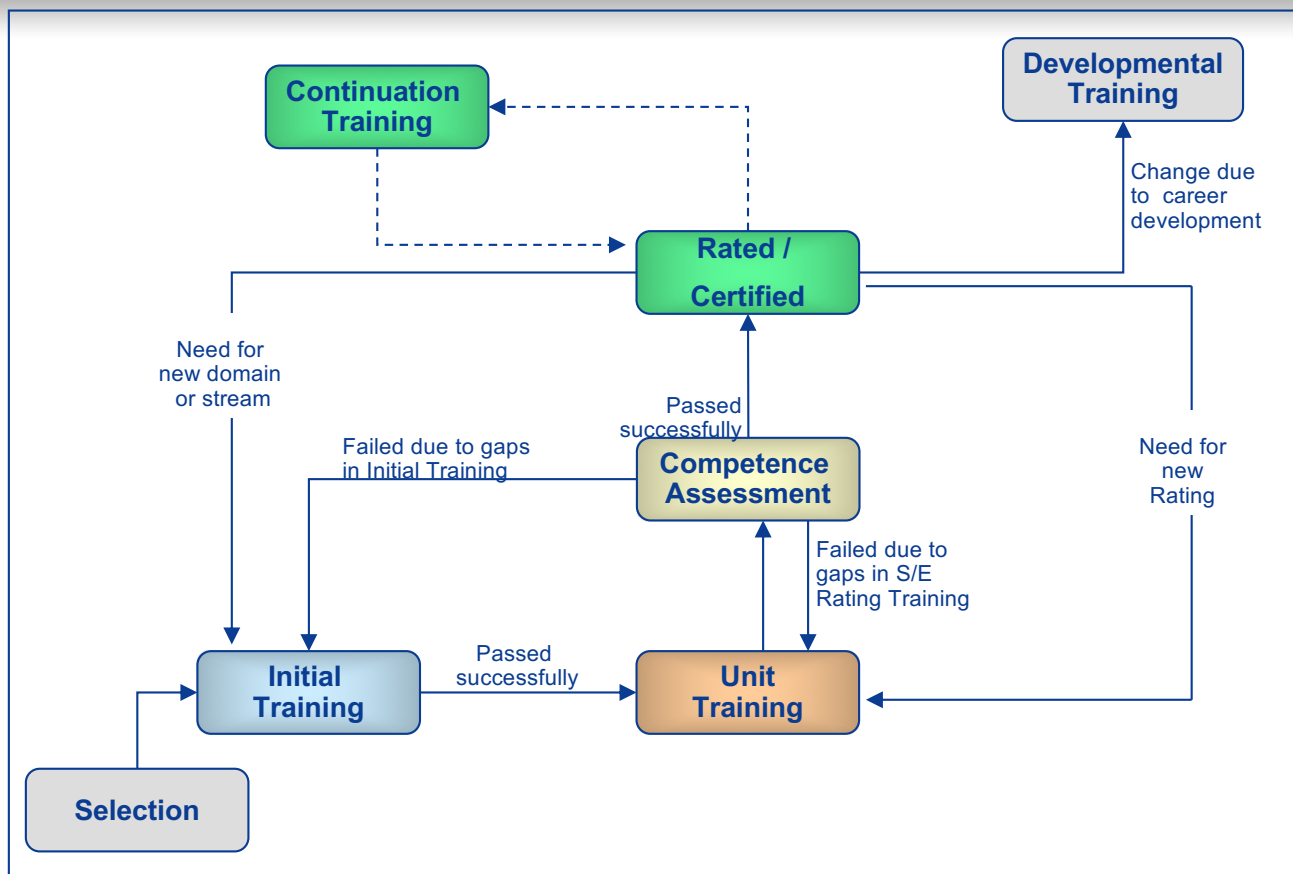


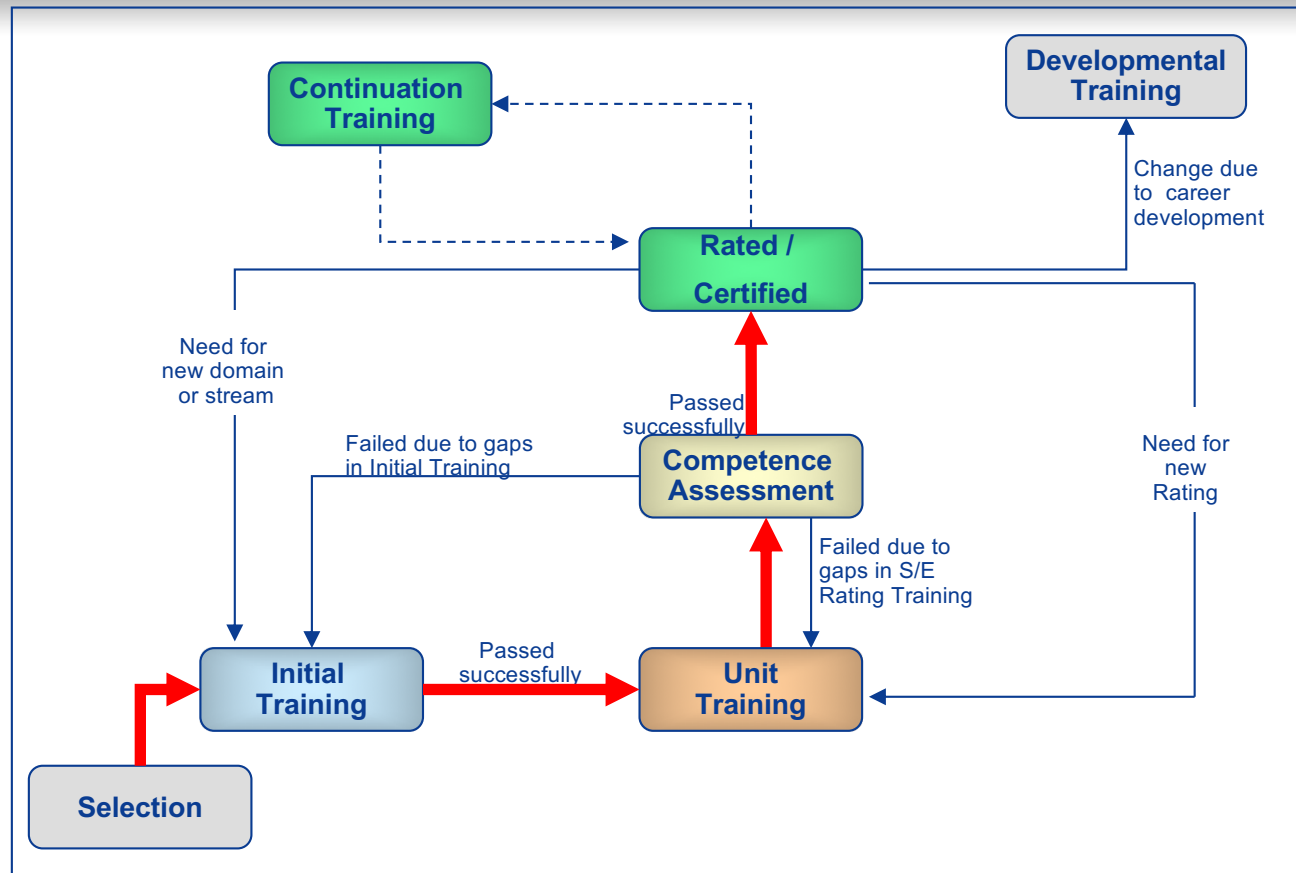
Figure 1-2. ATSEP training phases

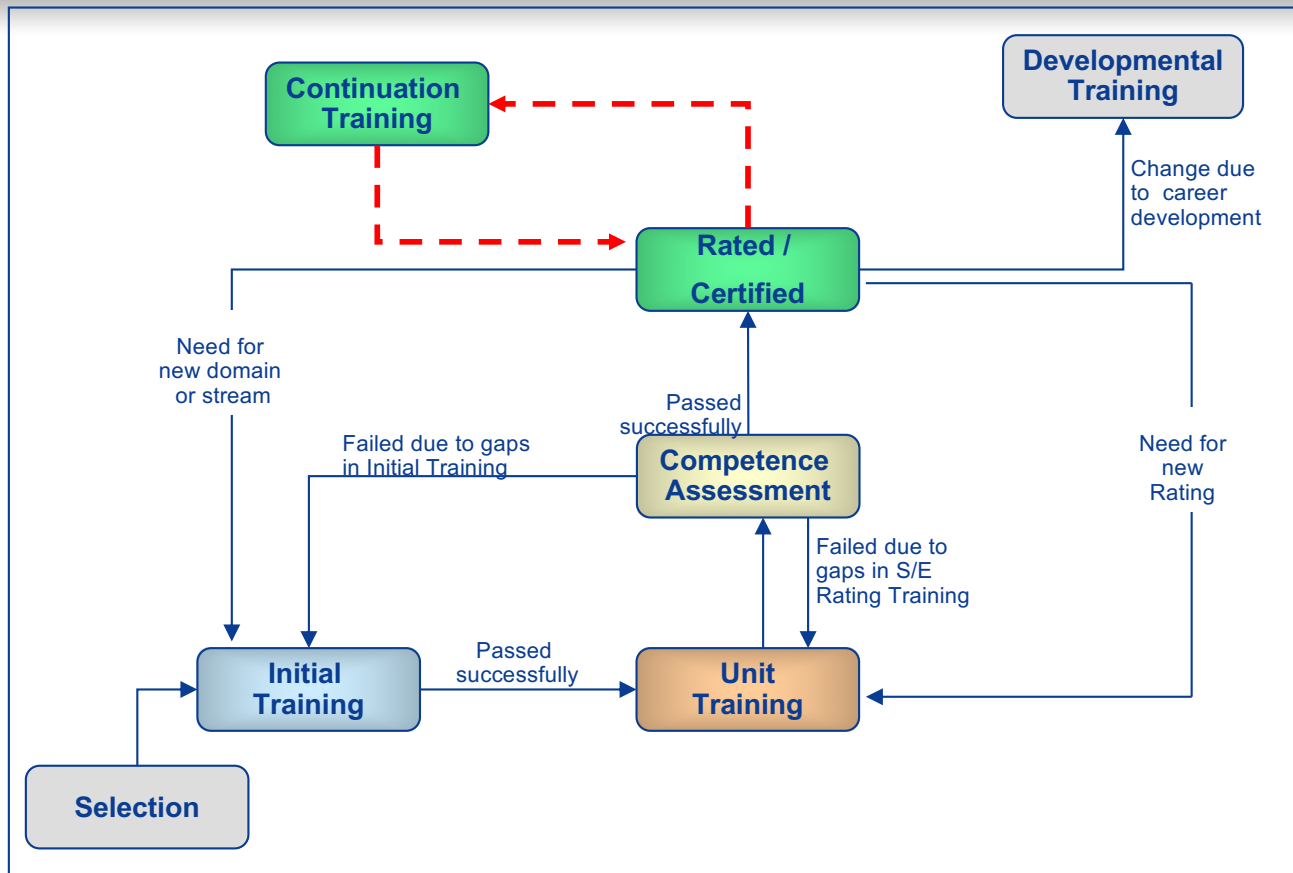


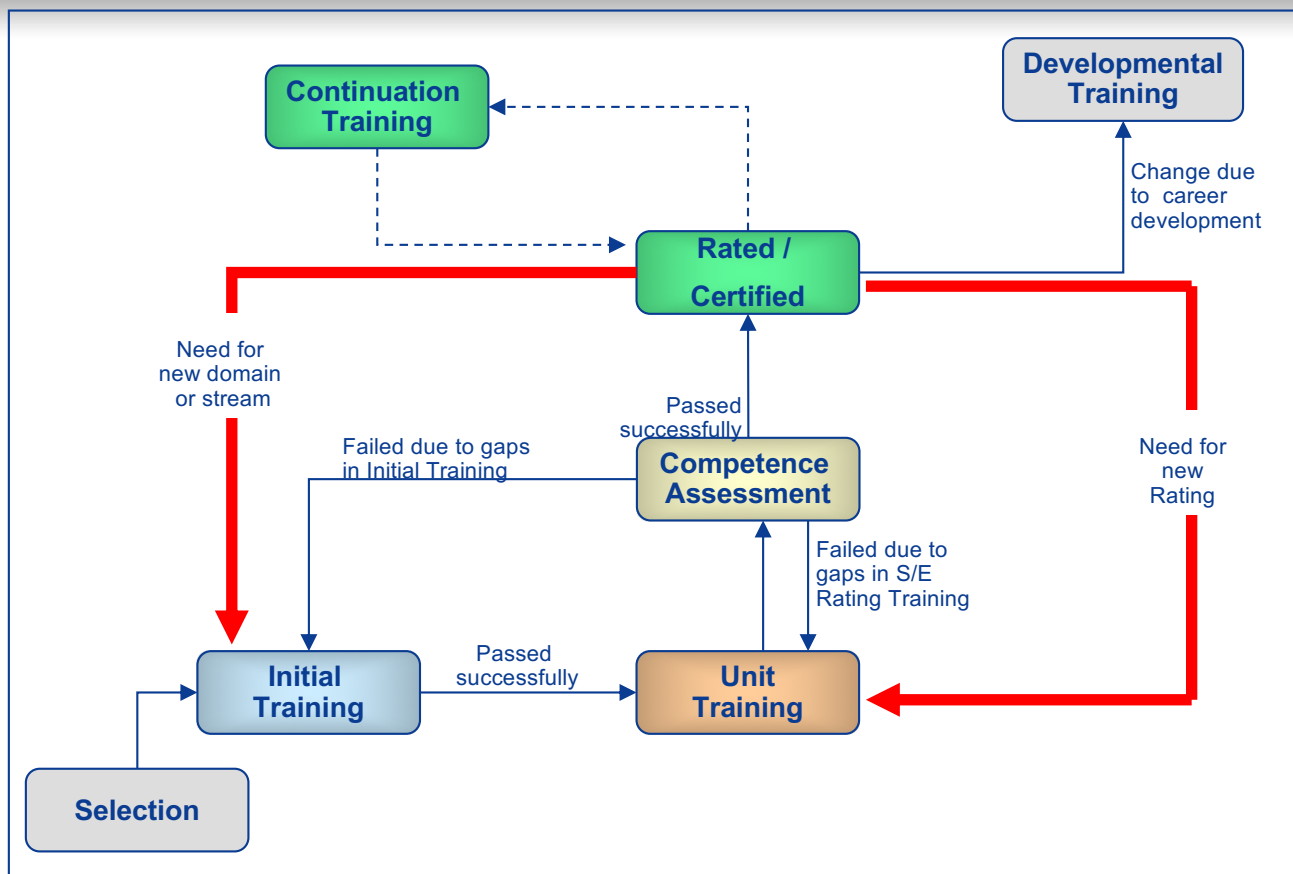
Figure 1-2. ATSEP training phases













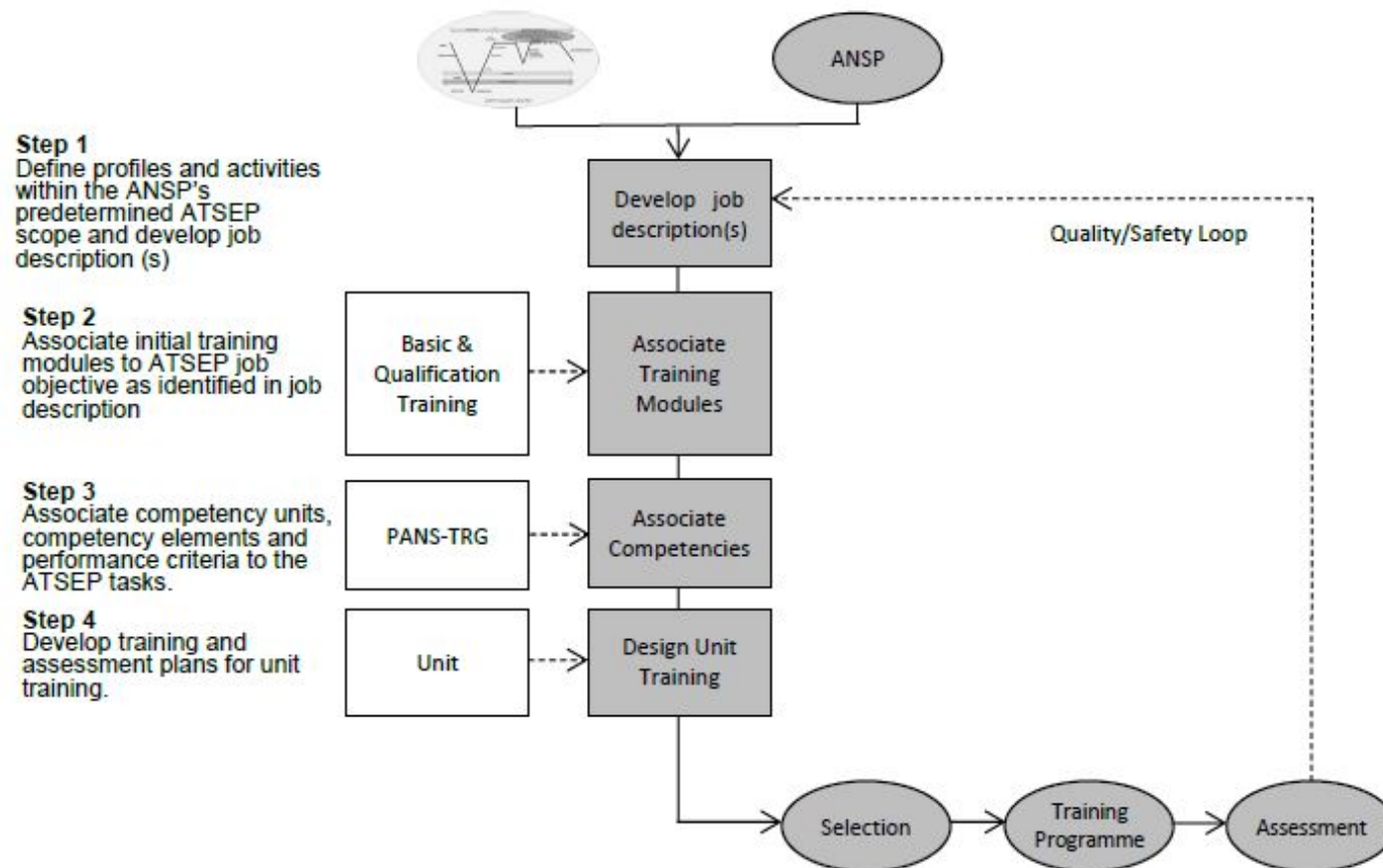
ICAO UNITING AVIATION

NO COUNTRY LEFT BEHIND



# Chapter 2

## Developing a Competency Based Training and Assessment Program for ATSEP





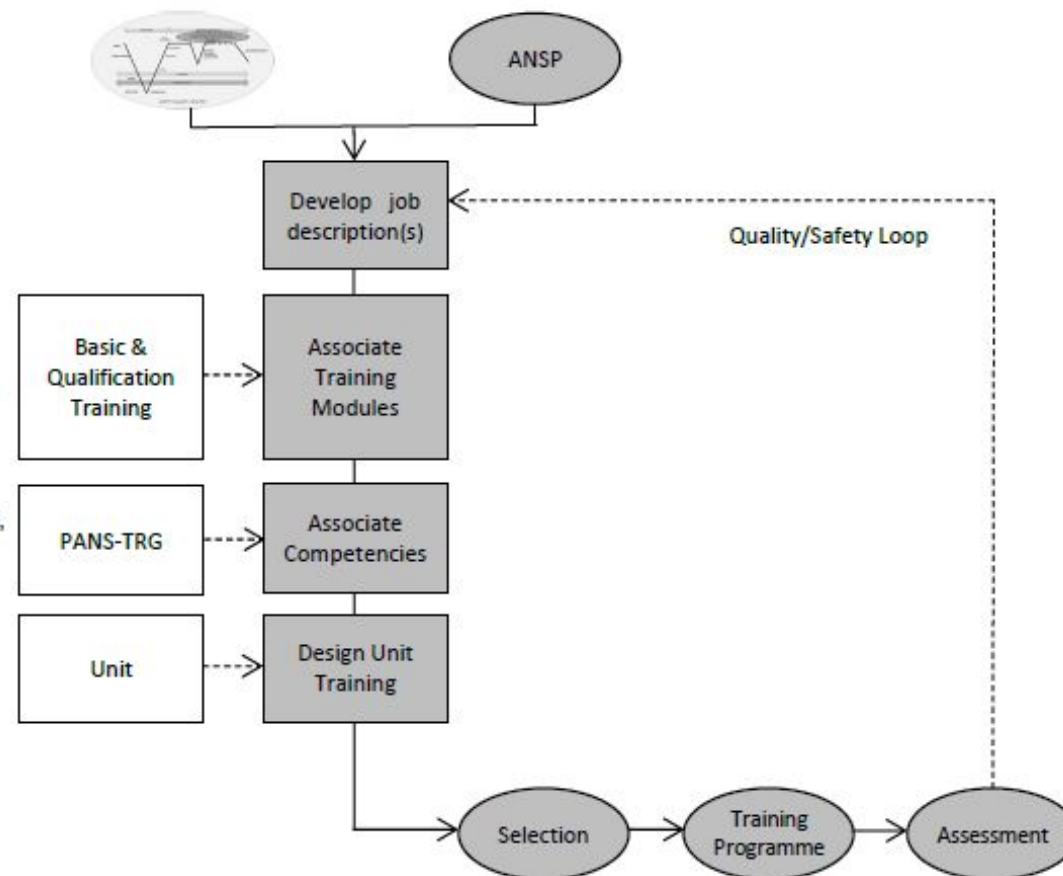


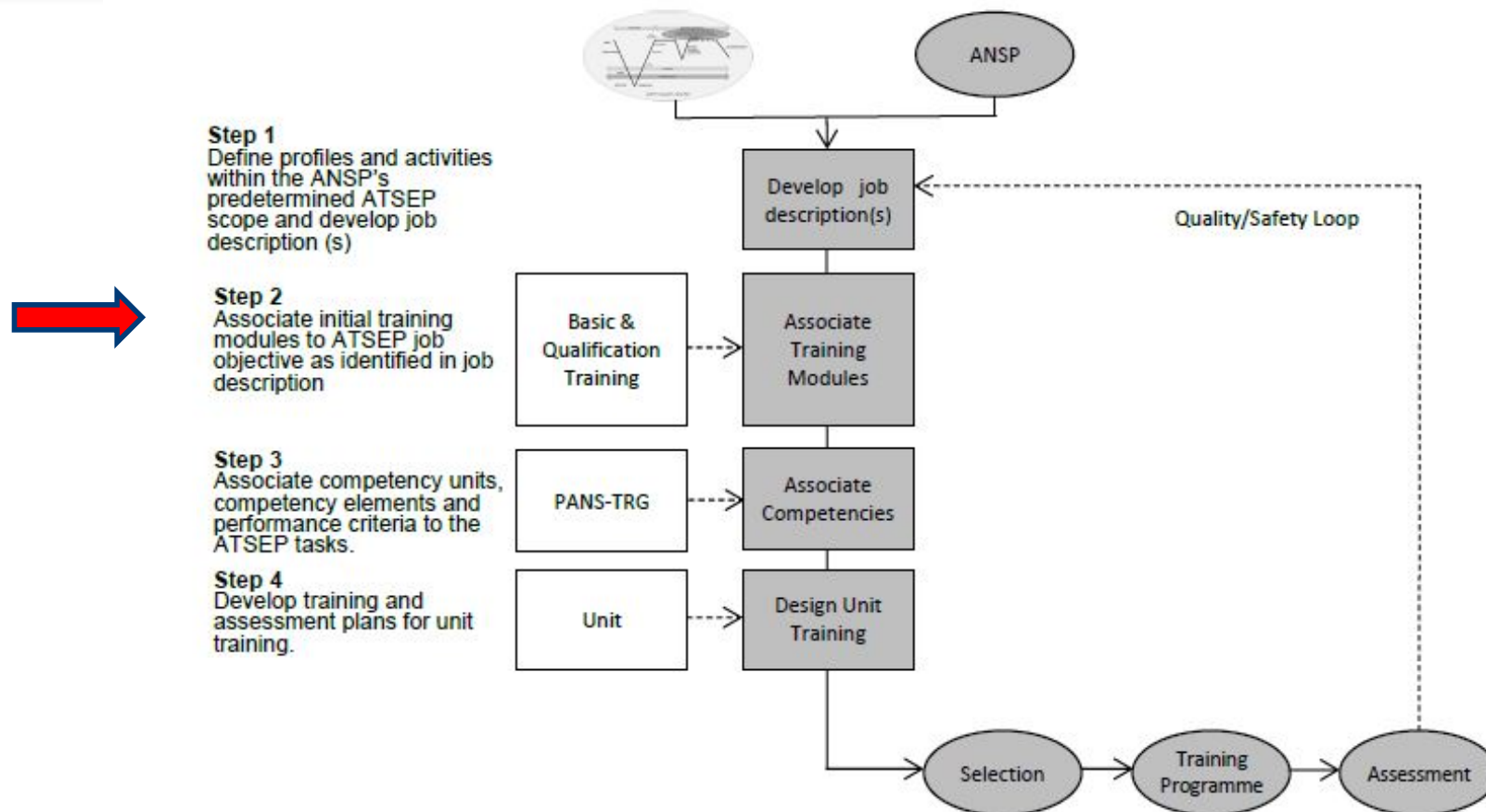
**Step 1**  
Define profiles and activities within the ANSP's predetermined ATSEP scope and develop job description (s)

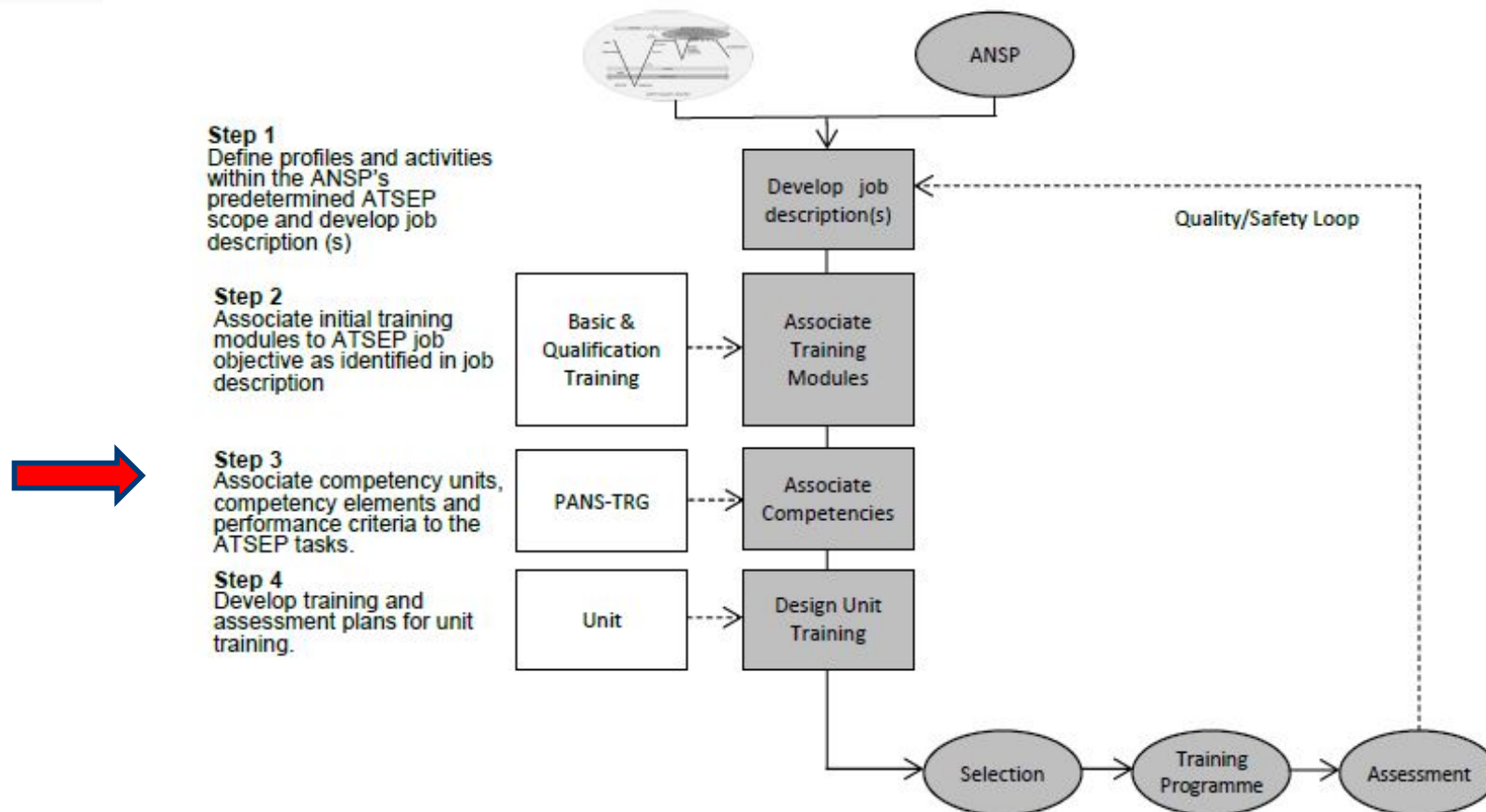
**Step 2**  
Associate initial training modules to ATSEP job objective as identified in job description

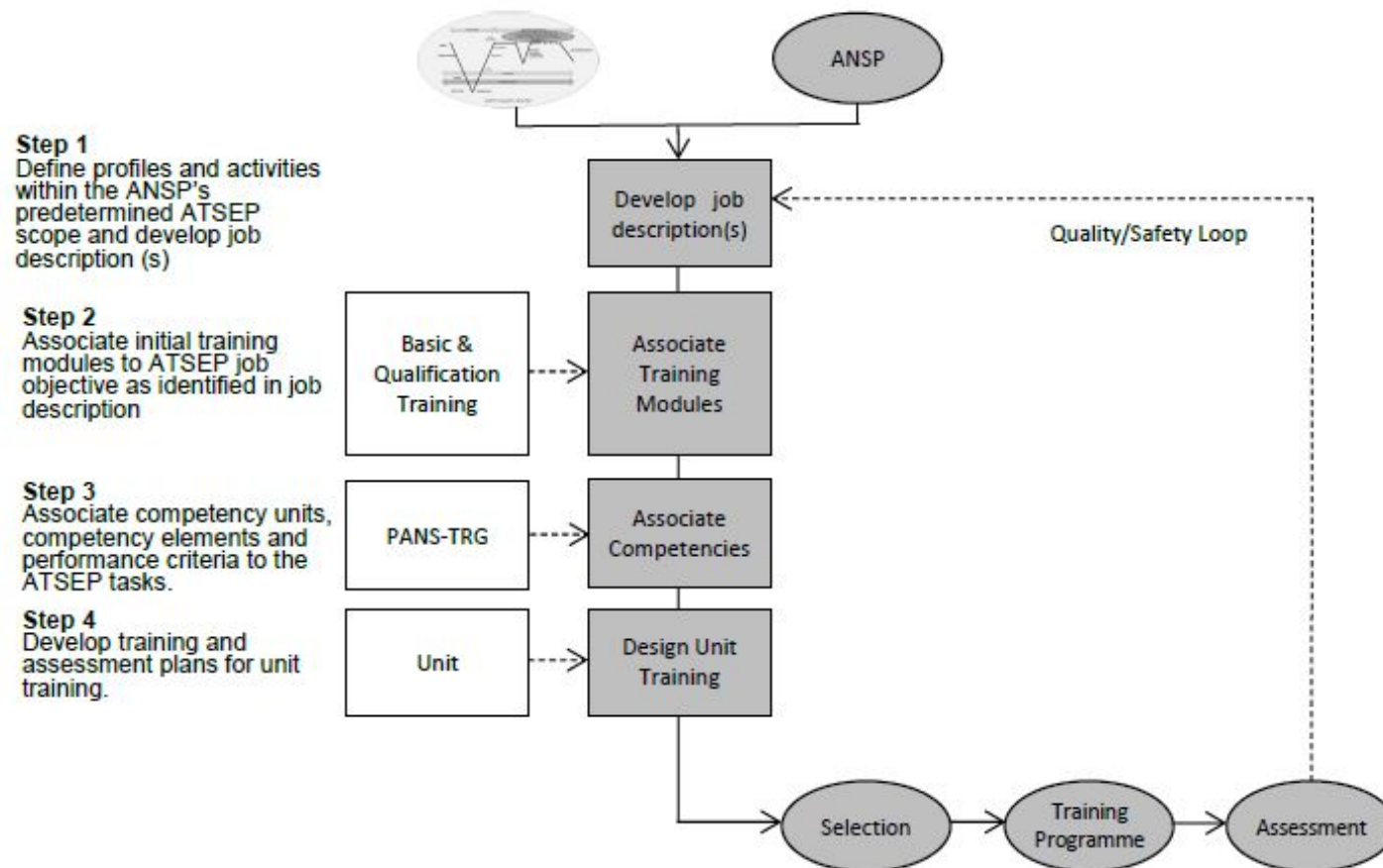
**Step 3**  
Associate competency units, competency elements and performance criteria to the ATSEP tasks.

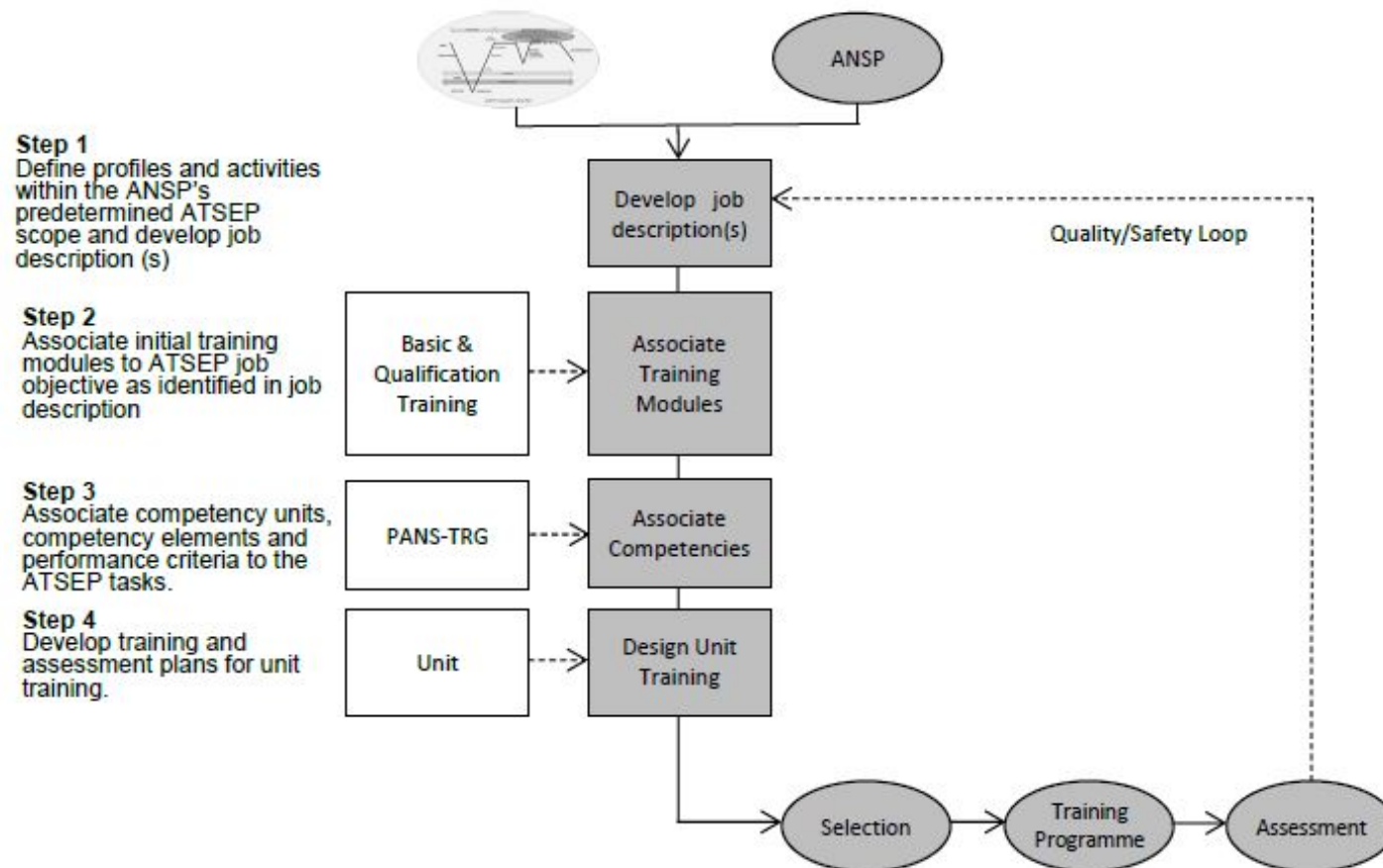
**Step 4**  
Develop training and assessment plans for unit training.













ICAO UNITING AVIATION

NO COUNTRY LEFT BEHIND



# Training Plan

- Document used for Structuring, Developing, and Delivering Training





# Training Plan

- Composition and Structure of Training
- Syllabus
- Modules
- Schedule



ICAO UNITING AVIATION

NO COUNTRY LEFT BEHIND



# Assessment

- Provide Incentive and Motivation
- Confirm Learning and Competence Achieved
- Validate Training



ICAO

UNITING AVIATION

NO COUNTRY LEFT BEHIND



# Assessment Principles

- Clear Criteria
- Integrated Performance of the Competencies
- Valid and Reliable Evidence-Evidence Guide
- Multiple Observations



ICAO

UNITING AVIATION

NO COUNTRY LEFT BEHIND



# Interim Competencies

- Milestones
- Logical Breaks in training



ICAO UNITING AVIATION

NO COUNTRY LEFT BEHIND



# Chapter 3 Initial Training Phase

- Basic Training
- Qualification Training



ICAO

UNITING AVIATION

NO COUNTRY LEFT BEHIND



# Basic Training Module

- Organizations and Standards
- Air Traffic Services, Standards, Meteorology and Altimetry
- CNS & ATM Concepts
- Human Factors



ICAO UNITING AVIATION

NO COUNTRY LEFT BEHIND



# Qualification Training Modules

- Communication
- Navigation
- Surveillance
- Data Processing/Automation
- System Monitoring and Control
- Infrastructure
- Engineering (New)



## Chapter 4 Unit Training Phase

- Activities and Competencies an ATSEP will perform in a Specific Technical and Operational Environment





ICAO

UNITING AVIATION

NO COUNTRY LEFT BEHIND



# Unit Training Modules

- Technical and Operational Environment
- System/Equipment Specific
- On the Job training



ICAO UNITING AVIATION

NO COUNTRY LEFT BEHIND



# Chapter 5 Continuation Training

- Refresher Training
- Emergency Training
- Conversion Training



ICAO

UNITING AVIATION

NO COUNTRY LEFT BEHIND



# Chapter 6 Development Training

- Additional competencies required when a change in activity is identified



ICAO UNITING AVIATION

NO COUNTRY LEFT BEHIND



END



ICAO UNITING AVIATION

NO COUNTRY LEFT BEHIND



ICAO

North American  
Central American  
and Caribbean  
(NACC) Office  
Mexico City

South American  
(SAM) Office  
Lima

ICAO  
Headquarters  
Montréal

Western and  
Central African  
(WACAF) Office  
Dakar

European and  
North Atlantic  
(EUR/NAT) Office  
Paris

Middle East  
(MID) Office  
Cairo

Eastern and  
Southern African  
(ESAF) Office  
Nairobi

Asia and Pacific  
(APAC) Sub-office  
Beijing

Asia and Pacific  
(APAC) Office  
Bangkok



THANK YOU