

55054003 EN ROUTE RADAR ASSOCIATE CONTROLLER TRAINING PART C: ADVANCED CONCEPTS

Lesson 20: Transfer of Position Responsibility

Version: 1.0 2022.08

INSTRUCTOR LESSON PLAN



LESSON PLAN DATA SHEET

Course Name	En Route Radar Associate Controller Training Part C: Advanced Concepts		
Course Number	55054003		
Lesson Title	Transfer of Position Responsibility		
Duration	1 hour 45 minutes (includes lesson, practice exercise, and ELT)		
Version	1.0 2022.08		
Reference(s)	JO 7110.65, Air Traffic Control; JO 7210.3, Facility Operation and Administration; TI 6110.101, En Route Automation Modernization RA-Position User Manual		
Prerequisites	NONE		
Handout(s)	Part-Task Exercise HO01_L20 (Print prior to class)		
Exercise / Activity	Refer to handout for:		
	Practice Exercise: Transfer of Position Responsibility		
Scenario	NONE		
Assessments	● YES - Written (Refer to ELT01_L05 , print prior to class)		
Materials and Equipment	Pencil and/or pen		
Other Pertinent Information	Ensure lesson materials are downloaded to the classroom computer		
	⊙ This lesson is based on ERAM EAE410		
	 The lesson has been reviewed and reflects current orders and manuals as of April 2022 		

As you prep for this lesson, recall and be prepared to talk about examples and personal experiences that illustrate or explain the teaching points in the lesson.

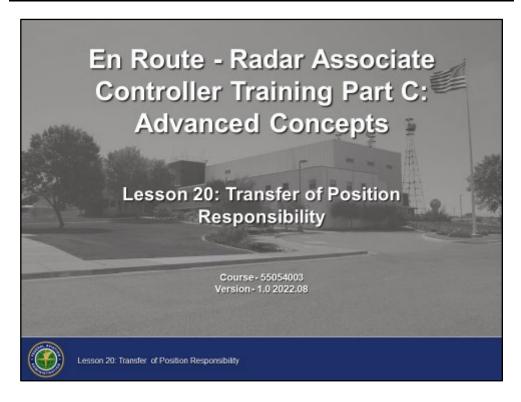
LESSON ICON LEGEND

	Description
Y	The Activity icon indicates an exercise, lab, or hands-on activity.
	The Discussion Question icon signals a discussion question to be asked to the students.
	The Handout icon indicates a handout is to be distributed to the students.
	The Instructor Note icon is in hidden text and indicates text that is for the instructor only.
	The Multimedia icon indicates a video or audio clip is in the presentation.
†	The Phraseology icon indicates that phraseology is in the content.
	The WBT icon indicates a component of web-based training.
	The Click icon indicates a PPT slide with click-based functionality to present additional information.
	The Definition icon indicates a published definition.



LESSON INTRODUCTION

Overview



Awareness of essential items and procedures for transferring position responsibility from one controller to another will greatly reduce your chances of being involved in a loss of separation or deviation because of incorrect or incomplete information transfer. The methods and practices used for transfer of position responsibility vary. Pertinent information may be forgotten or incompletely covered.

In this lesson, we will cover the responsibilities, terms, processes, and precautions necessary to assume or relinquish control of a position.

LESSON INTRODUCTION (CONT'D)

Lesson Objectives

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At the end of this lesson, you will be able to identify transfer of position:

- · Responsibilities for each specialist
- · Items on the position relief checklist
- · Steps to transfer responsibility



Lesson 20: Transfer of Position Responsibility

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Review the lesson objectives.

- At the end of this lesson, you will be able to identify transfer of position:
 - Responsibilities for each specialist
 - Items on the position relief checklist
 - Steps to transfer responsibility

NOTE: There will be a graded end-of-lesson test upon completion of the lesson. The passing score is 70%. If you do not achieve a score of 70%, you will be provided study time and one retake of an alternate end-of-lesson test.

RESPONSIBILITIES

Transfer of Position Responsibility

JO 7110.65, par. 2-1-24, Appendix A

Transfer of Position Responsibility

- Transfer of position responsibility must be accomplished in accordance with:
 - Standard Operating Practice (SOP) for the Transfer of Position Responsibility
 - Appropriate facility directives
- Must be accomplished each time operational responsibility for a position is transferred from one specialist to another



Lesson 20: Transfer of Position Responsibility

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- Transfer of position responsibility must be accomplished in accordance with:
 - Standard Operating Practice (SOP) for the Transfer of Position Responsibility
 - Appropriate facility directives
- Must be accomplished each time operational responsibility for a position is transferred from one specialist to another
- In all operational facilities, the increase in traffic density and the need for the expeditious movement of traffic without compromising safety have emphasized the importance of the transfer of position responsibility

Terms

JO 7110.65, Appendix A, par.

Terms

STATUS INFORMATION AREA (SIA)

- Manual or automatic display of current status of position-related equipment and operational conditions or procedures

WRITTEN NOTES

 Manually recorded items of information kept at designated locations on the position of operation. They may be an element of the Status Information Area(s)

CHECKLIST

 An ordered listing of items to be covered during a position relief



Lesson 20: Transfer of Position Responsibility

STATUS INFORMATION AREA (SIA) - Manual or automatic display of current status of position-related equipment and operational conditions or procedures.



WRITTEN NOTES - Manually recorded items of information kept at designated locations on the position of operation. They may be an element of the Status Information Area(s).



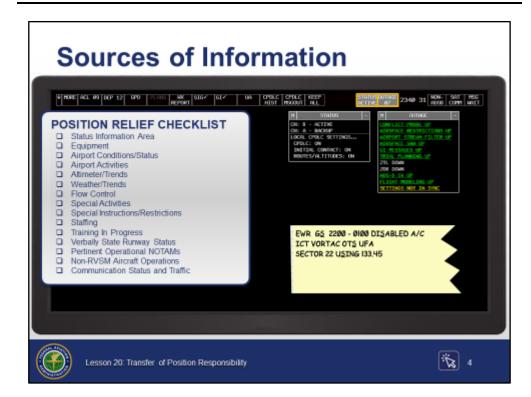
CHECKLIST - An ordered listing of items to be covered during a position relief.

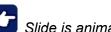
Sources of Information

JO 7110.65, Appendix A

TI 6110.101, secs. 2.2, 4.14, 4.15

JO 7210.3, par. 2-2-4





Slide is animated, 3 clicks. Click where indicated by click icon.

Checklists



Discuss local checklist procedures and locations.



Click to show Status Information Area

- Status Information Area, such as
 - Written notes
 - Plexiglass boards



Click to show Status view

Status View



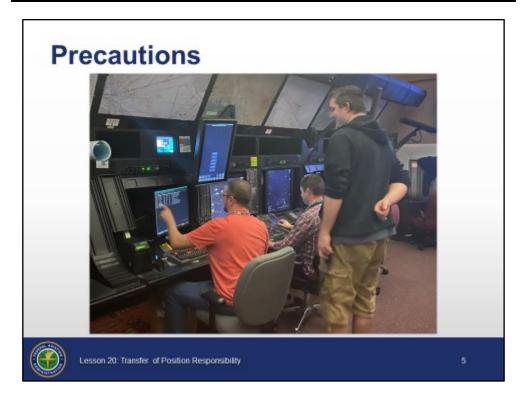
Click to show Outage view

- Outage View
- Status boards, such as
 - **ESIS**
 - **ERIDS**

Precautions

JO 7110.65, Appendix A, par.

JO 7210.3, par. 2-2-4



- Specialists involved in the position relief process should not rush or be influenced to rush
 - Important information can be omitted and potentially cause a loss of separation or other occurrence
- Take extra care when:
 - More than one specialist relieves or is being relieved from a position(s) at the same time
 - Combining or decombining positions
- Controllers involved in the position relief process must be aware of any distractions that could lead to omission of important operational information
- ⊙ A large amount of information must be evaluated during the briefing
 - Make a deliberate effort to go through the position relief briefing thoughtfully and carefully
- To the maximum extent possible, position relief briefings must be recorded

Specialist Being Relieved

JO 7110.65, Appendix A, par. 5

Specialist Being Relieved

- Must be responsible for ensuring that any pertinent status information of which they are aware is relayed to the relieving specialist and is either:
 - Accurately displayed in the Status Information Area(s) for which they have responsibility, or
 - Relayed to the position having responsibility for accurately displaying the status information



Lesson 20: Transfer of Position Responsibility

- Specialist being relieved must be responsible for ensuring that any pertinent status information of which they are aware is relayed to the relieving specialist and is either:
 - Accurately displayed in the Status Information Area(s) for which they have responsibility, or
 - Relayed to the position having responsibility for accurately displaying the status information

Relieving Specialist

JO 7110.65, Appendix A, par. 5

Relieving Specialist

- Responsible for ensuring that, prior to accepting responsibility for the position, any unresolved questions pertaining to the operation of the position are resolved
- Relieving specialist and the specialist being relieved must share equal responsibility for the completeness and accuracy of the position relief briefing



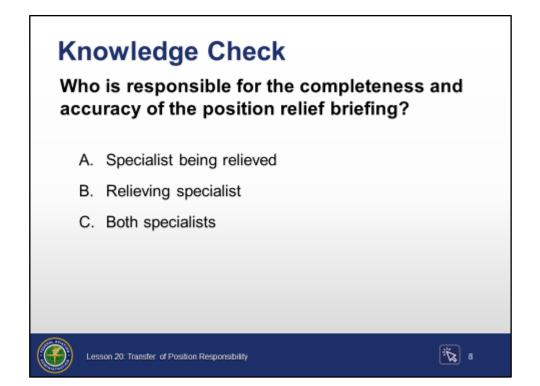
Lesson 20: Transfer of Position Responsibility

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- The relieving specialist must be responsible for ensuring that, prior to accepting responsibility for the position, any unresolved questions pertaining to the operation of the position are resolved
- The relieving specialist and the specialist being relieved must share equal responsibility for the completeness and accuracy of the position relief briefing

NOTE: The sharing of this responsibility means that the specialist being relieved is obligated to provide a complete, accurate briefing and the relieving specialist is obligated to ensure that a briefing takes place and is to their total satisfaction.

Knowledge Check



Question: Who is responsible for the completeness and accuracy of the position relief briefing?



Answer: C. Both specialists

Knowledge Check

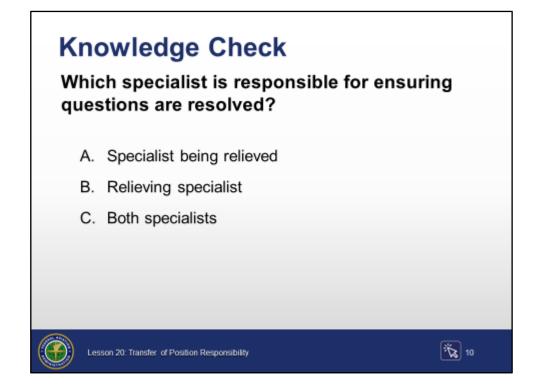
Knowledge Check Accuracy of information displayed in the Status Information Area is the responsibility of A. specialist being relieved B. relieving specialist C. both specialists 9 🔊 Lesson 20: Transfer of Position Responsibility

Question: Accuracy of information displayed in the Status Information Area is the responsibility of _____.



Answer: A. specialist being relieved

Knowledge Check



Question: Which specialist is responsible for ensuring questions are resolved?



Answer: B. Relieving specialist

POSITION RELIEF BRIEFING CHECKLIST

Status Information Area

JO 7110.65, Appendix A, pars. 2, 4

JO 7210.3, par. 2-2-4

Status Information Area

During position operation:

- Record status information which is or may be an operational factor
- Record Information as soon as it is operationally feasible so that it will not be forgotten or incorrectly recorded

Status Information Area begins the selfbriefing

 The relieving specialist obtains needed status information by reading from the Status Information Area(s)



Lesson 20: Transfer of Position Responsibility

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- Ouring position operation:
 - · Record status information which is or may be an operational factor
 - Record information as soon as it is operationally feasible so that it will not be forgotten or incorrectly recorded
 - Major problems occur whenever there is a heavy reliance upon memory
 - Status Information Area(s) must be the first item listed on the position checklist
- Status Information Area begins the self-briefing
 - The relieving specialist obtains needed status information by reading from the Status Information Area(s)

Equipment

JO 7210.3, par. 2-2-4

Equipment

- · Brief the following:
 - Status View
 - Outage View
 - NAVAIDs
 - Radar(s)
 - Radios
 - Automated Weather Observing Systems
 - Any other equipment deemed necessary



Lesson 20: Transfer of Position Responsibility

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- The status of equipment can have an effect on how a sector operates
- Brief the following:
 - Status View
 - Outage View
 - NAVAIDs
 - Out of service (OTS)
 - Released for maintenance
 - A portion of a NAVAID OTS

Examples: DME on the localizer OTS Glide Slope OTS

- Radar(s)
 - Radar sites OTS may reduce coverage

Continued on next page

Equipment (Cont'd)

JO 7210.3, par. 2-2-4

- Radio(s)
 - Your sector or other sectors using non-standard communication frequencies and/or radio sites
- Automated Weather Observing Systems (AWOS)
 - AWOS at the airport may be OTS
 - Pilots will not have the most current METAR
- Any other equipment deemed necessary (e.g., ADS-B sites, CPDLC services)

Airport Conditions, Status, and Activities

JO 7110.65, par. 2-6-2

JO 7210.3, par. 2-2-4

Airport Conditions, Status, and Activities

- Include airport conditions, status, and activities, such as:
 - Airport closure
 - Prior permission may be needed to land
 - Runway status
 - Vehicles on runway
 - Any other conditions/activities deemed necessary



Lesson 20: Transfer of Position Responsibility

- O Include airport conditions, status, and activities, such as:
 - Airport closure
 - Prior permission may be needed to land
 - Runway status
 - Runway in use
 - Snow removal
 - Braking action reports forwarded by pilots or solicited by you
 - Vehicles on runway
 - A particular runway may be closed
 - Any other conditions and/or activities deemed necessary

Altimeter and Weather Trends

JO 7210.3, par. 2-2-4

Altimeter and Weather Trends

- · Include any altimeter and/or weather trends
 - Altimeters
 - ➤ Rapidly changing
 - ➤ Below 29.92
 - o Some flight levels may become unusable
 - ➤ Above 31.00
 - o EAS will not display the correct Mode C altitude
 - Weather
 - Convective activity and pilot's requests to avoid
 - Freezing level and forecast icing
 - > Chop and/or turbulence reports



Lesson 20: Transfer of Position Responsibility

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- Include any altimeter and/or weather trends
 - Altimeters
 - Rapidly changing
 - May necessitate issuing a setting to aircraft more than once
 - Below 29.92
 - Some flight levels become unusable
 - Above 31.00
 - o EAS will not display the correct Mode C altitude
 - Weather
 - Convective activity and pilot's requests to avoid
 - Freezing level and forecast icing
 - Chop and/or turbulence reports
 - Include smooth altitudes if known

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Altimeter and Weather Trends (Cont'd)

JO 7210.3, par. 2-2-4

- If you conduct approach control services, include airport weather information:
 - Visual Meteorological Conditions (VMC)
 - Instrument Meteorological Conditions (IMC)
 - Base and tops reports
 - o Expect pilots to fly a full instrument approach
- Any other pertinent weather information deemed necessary

Other Checklist Items

JO 7210.3, par. 2-2-4

Other Checklist Items

- Flow control
- Special activities
- Special instructions and/or restrictions
- Staffing
- Training in progress



Lesson 20: Transfer of Position Responsibility

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- Flow control
 - Traffic Management Initiatives
- Special activities
 - Include any pertinent information deemed necessary

Examples: Restricted and/or warning areas in use, airshows, flight checks, new procedures

- Special instructions and/or restrictions
 - Include any pertinent information deemed necessary

Examples: Adjacent position training, nonstandard staffing, and/or configuration

- Staffing
- Training in progress

Other Checklist Items (Cont'd)

JO 7210.3, par. 2-2-4

Other Checklist Items (Cont'd)

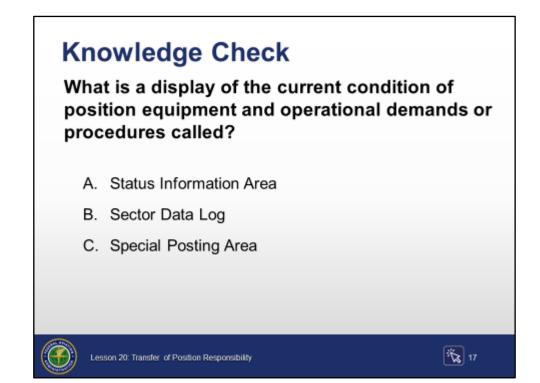
- · Verbally state runway status
 - Unavailable, closed, occupied
- Pertinent operational NOTAMs
 - Unless previously covered
- Non-RVSM aircraft operations
- Communication status and traffic



Lesson 20: Transfer of Position Responsibility

- Verbally state runway status
 - Unavailable, closed, or occupied
- Pertinent operational NOTAMs
 - Unless previously covered
- Non-RVSM aircraft operations
- Communication status and traffic

Knowledge Check



Question: What is a display of the current condition of position equipment and operational demands or procedures called?



Answer: A. Status Information Area

TRANSFER OF RESPONSIBILITY PROCESS

Relieving Specialist Previews the Position

JO 7110.65, Appendix A, par.

Relieving Specialist Previews the Position

- Follow the checklist
- Review the Status Information Area(s)
- Observe:
 - Position equipment
 - Operational situation
 - Work environment
- Listen to voice communications
- Observe current and pending aircraft and correlate with flight information



Lesson 20: Transfer of Position Responsibility

- Relieving specialist previews the position
 - Follow the checklist
 - Review the Status Information Area(s)
 - Observe:
 - Position equipment
 - Operational situation
 - Work environment
 - Listen to voice communications and observe other operational actions
 - Observe current and pending aircraft and correlate with flight information
 - Indicate to the specialist being relieved that the position has been previewed and that the verbal briefing may begin

Verbal Briefing

JO 7110.65, Appendix A, par. 6

Verbal Briefing

- Specialist being relieved verbally briefs the relieving specialist on:
 - Abnormal status of items not listed on the SIAs
 - Include any items of special interest calling for verbal explanation or additional discussion
 - Reported weather and other weather related information
 - Traffic, if applicable
 - Communication status of all known aircraft



Lesson 20: Transfer of Position Responsibility

- Specialist being relieved verbally briefs the relieving specialist on:
 - Abnormal status of items not listed on the SIAs
 - Include any items of special interest calling for verbal explanation or additional discussion
 - Reported weather and other weather related information
 - Traffic, if applicable
 - Communication status of all known aircraft
 - Except for ERAM facilities using Voice Communication Indicator (VCI)
- Relieving specialist should ask questions necessary to ensure a complete understanding of the operational situation
 - Specialist being relieved must completely answer any questions asked

Assume Position Responsibility

JO 7110.65, Appendix A, par.

Assume Position Responsibility

- · Relieving specialist:
 - Make a statement or otherwise indicate to the specialist being relieved that position responsibility has been assumed
- Specialist being relieved:
 - Release the position to the relieving specialist



Lesson 20: Transfer of Position Responsibility

- Assume position responsibility
 - The relieving specialist makes a statement or otherwise indicates to the specialist being relieved that position responsibility has been assumed
 - The specialist being relieved releases the position to the relieving specialist

Review the Position

JO 7110.65, Appendix A, par. 6

Review the Position

- Relieving specialist:
 - Checks, verifies, and updates the information obtained during the preview and verbal briefing
 - Checks position equipment in accordance with existing directives



Lesson 20: Transfer of Position Responsibility

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- When reviewing the position, the relieving specialist:
 - Checks, verifies, and updates the information obtained during the preview and verbal briefing
 - Checks position equipment in accordance with existing directives

Review the Position (Cont'd)

JO 7110.65, Appendix A, par. 6

Review the Position (Cont'd)

- When reviewing the position, the specialist being relieved:
 - Reviews
 - ➤ Checklist
 - Status Information Area(s)
 - Written notes
 - Other prescribed sources of information
 - Advises the relieving specialist of
 - > Known omissions
 - ➤ Updates
 - ➤ Inaccuracies



Lesson 20: Transfer of Position Responsibility

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- When reviewing the position, the specialist being relieved:
 - Reviews
 - Checklist
 - Status Information Area(s)
 - Written notes
 - Other prescribed sources of information
 - · Advises the relieving specialist of
 - Known omissions
 - Updates
 - Inaccuracies

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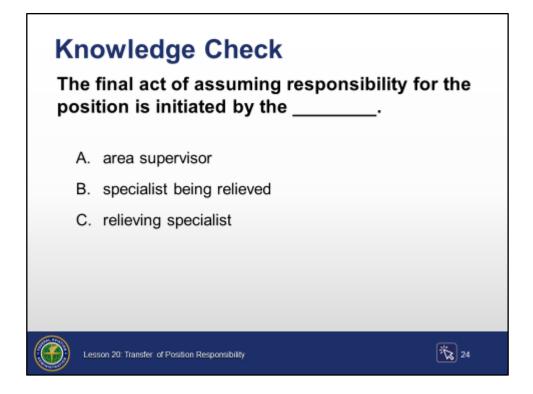
Review the Position (Cont'd)

JO 7110.65, Appendix A, par. 6

- Observes overall position operation to determine if assistance is needed
 - If assistance is needed, provides or summons it as appropriate
- Advises the appropriate position regarding known Status Information Area(s) omissions, updates, or inaccuracies
- Indicates that the relief process is complete
- The specialists sign-on/sign-off

NOTE: Signing on to a position will automatically sign out the previous specialist.

Knowledge Check



Question: The final act of assuming responsibility for the position is initiated by the _____.



Answer: C. relieving specialist

Knowledge Check

Knowledge Check

After the relieving specialist has assumed responsibility for the sector, the relieved specialist _____.

- A. immediately leaves the area
- B. reviews all information for omissions, updates, or inaccuracies
- C. signs off the position and remains at the sector for 10 minutes



Lesson 20: Transfer of Position Responsibility



Question: After the relieving specialist has assumed responsibility for the sector, the relieved specialist .



Answer: B. reviews all information for omissions, updates, or inaccuracies

Knowledge Check

Knowledge Check

Before receiving a verbal briefing from the specialist being relieved, you must ____

- A. indicate that you have assumed position responsibility
- B. sign yourself on the position
- C. preview the position



Lesson 20: Transfer of Position Responsibility



Question: Before receiving a verbal briefing from the specialist being relieved, you must .



Answer: C. preview the position

Knowledge Check

Knowledge Check

If the specialist being relieved recognizes an inaccuracy immediately after relinquishing position responsibility, who should be notified?

- A. Traffic Management Unit
- B. Operations manager

Lesson 20: Transfer of Position Responsibility

C. Relieving specialist and any appropriate position



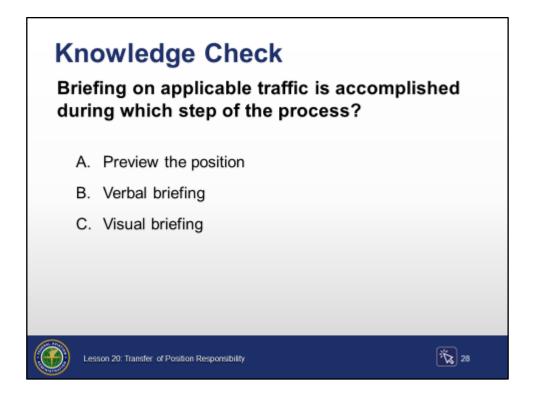
Question: If the specialist being relieved recognizes an inaccuracy immediately after relinquishing position responsibility, who should be notified?



Answer: C. Relieving specialist and any appropriate position

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Knowledge Check



Question: Briefing on applicable traffic is accomplished during which step of the process?



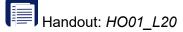
Answer: B. Verbal briefing

Practice Exercise: Transfer of Practice Exercise: Transfer of **Position Responsibility** Position Responsibility (Cont'd) Purpose - Do not try to complete the checklist or answer the Rate the quality and completeness of two (2) sample questions during the video position relief briefings Concentrate on watching the position relief Materials briefing; then complete the checklist and answer - Practice Exercise, Transfer of Position Responsibility the questions - Pen or pencil Be prepared to share your responses during the Directions discussion after each video - Before watching each situation, review the observer checklist and read the discussion questions

Purpose

In this exercise you will rate the quality and completeness of two (2) sample position relief briefings.

Materials



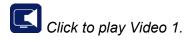
- Practice Exercise, Transfer of Position Responsibility
- Pen or pencil

Directions

This exercise takes approximately 30 minutes to complete.

This exercise contains two video reenactments of a position relief briefing. The first is rushed and distracted not following a checklist. The second is more correct. Prompt the students to discuss both good and bad actions by all the specialists.

- Before watching each situation, review the observer checklist and read the discussion questions
- Watch the video
- Do not try to complete the checklist or answer the questions during the video
 - Concentrate on watching the position relief briefing; then complete the checklist and answer the questions
- Be prepared to share your responses during the discussion after each video



ecialist Being Relieved	Re	lieving Specialist
briefing ☐ Briefs from position checklist ☐ Briefs on: — Abnormal status items, as needed — Applicable traffic ☐ Completely answers questions ☐ Does not rush ☐ Does not permit self to be rushed Releases position		Previews position □ Does self-briefing and review of SIA, and receives authorized pre-position briefing □ Observes: □ Position equipment □ Operational situation □ Work environment □ Traffic (current and pending) □ Other operational actions □ Listens to voice communications and correlates with flight information □ Familiarizes self with: □ Relevant weather □ Pertinent NOTAMs □ Special Use Airspace □ Indicates readiness for briefing □ During briefing, ensures complete understanding □ Asks any necessary questions □ Listens/observes attentively □ Does not rush □ Does not permit self to be rushed Indicates responsibility assumed Reviews position: □ Signs on □ Checks position equipment □ Verifies and updates information

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Situation	1
Discussion	on
Questions	s

SPECIALIST BEING RELIEVED

	 How would you rate the performance of the spe Explain your rating in questions 2 and 3 below. 			•	lieved?	
		Poor	Good	Very Good	Excellent	
<u></u>			<u> </u>	<u> </u>	<u> </u>	_l
	2.	What did the	e specialist do v	well?		

3. What did the specialist do poorly?

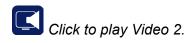
RELIEVING SPECIALIST

4. How would you rate the performance of the relieving specialist? Explain your rating in questions 5 and 6 below.

	Poor	Good	Very Good	Excellent
l		I	1	1

5. What did the specialist do well?

6. What did the specialist do poorly?



Relieving Specialist
Previews position Does self-briefing and review of SIA, and receives authorized pre-position briefing Does self-briefing and review of SIA, and receives authorized pre-position briefing Dobserves: Position equipment Operational situation Work environment Traffic (current and pending) Other operational actions Listens to voice communications and correlates with flight information A, written Familiarizes self with: Relevant weather Pertinent NOTAMs Special Use Airspace Special Activity Airspace Indicates readiness for briefing During briefing, ensures complete understanding Asks any necessary questions Listens/observes attentively Does not rush Does not permit self to be rushed Indicates responsibility assumed Reviews position: Signs on
it consii

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☐ Checks position equipment☐ Verifies and updates information

Situation	2
Discussion	on
Question	S

SPECIALIST BEING RELIEVED

1.	How would you rate the performance of the specialist being relieved? Explain you
	rating in questions 2 and 3 below.

Poor Good Very Good Excellent

2. What did the specialist do well?

3. What did the specialist do poorly?

RELIEVING SPECIALIST

4. How would you rate the performance of the relieving specialist? Explain your rating in questions 5 and 6 below.

Poor Good Very Good Excellent

5. What did the specialist do well?

6. What did the specialist do poorly?

Lesson Summary

Lesson Summary

This lesson covered transfer of position:

- · Responsibilities for each specialist
- · Items on the position relief checklist
- Steps to transfer responsibility



Lesson 20: Transfer of Position Responsibility

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Review and elaborate briefly on the following topics. Ask students if they have questions about any of the concepts covered in the lesson.

This lesson covered transfer of position:

- Responsibilities for each specialist
 - Terms
 - Sources of information
 - Precautions
 - Specialist being relieved
 - Relieving specialist
- Items on the position relief briefing checklist
 - Status information area
 - Equipment
 - Airport conditions, status, and activities
 - · Altimeter and weather trends
 - · Other checklist items

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CONCLUSION (CONT'D)

Lesson Summary (Cont'd)

- ⊙ Steps to transfer responsibility
 - Relieving specialists previews the position
 - Verbal briefing
 - Assume position responsibility
 - Review the position

Hand out and administer the End-of-Lesson Test. Provide feedback on missed items, including why particular answers are correct, as well as why some responses are incorrect.