ROYAL CANADIAN AIR CADETS

PROFICIENCY LEVEL TWO

INSTRUCTIONAL GUIDE

SECTION 3

EO C260.04 – PERFORM MARSHALLING

Total Time: 30 min

PREPARATION

PRE-LESSON INSTRUCTIONS

Resources needed for the delivery of this lesson are listed in the lesson specification located in A-CR-CCP-802/PG-001, Chapter 4. Specific uses for said resources are identified throughout the Instructional Guide within the TP for which they are required.

Review the lesson content and become familiar with the material prior to delivering the lesson.

Paste flash cards located at Annex A with marshalling signals on one side of the card and marshalling commands on the reverse (e.g. 1-2, 3-4, 5-6, etc.).

PRE-LESSON ASSIGNMENT

N/A.

APPROACH

An interactive lecture was chosen for TP1 to present basic material on marshalling duties, orient the cadets to the topic and to generate interest.

Demonstration and performance was chosen for TP2 as it allows the instructor to explain and demonstrate the skill the cadet is expected to acquire while providing an opportunity for the cadets to practice the skill under supervision.

A game was chosen for TP3 as it is a fun and challenging way to practice the skills taught during the lesson and to confirm the cadets' knowledge of the material.

INTRODUCTION

REVIEW

N/A.

OBJECTIVES

By the end of the lesson the cadet will have performed aircraft marshalling movements.

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IMPORTANCE

It is important for the cadet to be familiar with marshalling signals as an orientation to aerodrome activities. Marshalling aircraft is one of the many duties performed by ground crew/maintenance staff at an aerodrome. Familiarizing the cadets with these tasks will expand their awareness of different roles in aerodrome operations.

Teaching point 1 **Discuss the Importance of Marshalling at an Aerodrome**

Time: 5 min Method: Interactive Lecture

WHY IS AIRCRAFT MARSHALLING USED?

- Aircraft marshalling ensures the safety of all aircraft and personnel on the ground. Marshalling is used to direct aircraft. The marshaller uses hand-held lighted wands to give signals to a pilot; the pilot then manoeuvres the aircraft into the correct position.

WHEN IS AIRCRAFT MARSHALLING USED?

- Aircraft marshalling is used when there are multiple aircraft moving on the ground, or a large aircraft is moving under its own power.

WHERE IS AIRCRAFT MARSHALLING USED?

- Aircraft marshalling is used when aircraft enter, depart or manoeuvre on the apron of an aerodrome.

CONFIRMATION OF TEACHING POINT 1

QUESTIONS

Q1. Why is marshalling used?

Q2. When is marshalling used?

Q3. Where is marshalling used?

ANTICIPATED ANSWERS

A1. Where is marshalling used?

A2. While aircraft are moving under their own power on the ground.

A3. On the apron of an aerodrome.

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Teaching point 2 **Demonstrate and Allow Cadets to Practice Marshalling Signals**

Time: 10 min Method: Demonstration and Performance



Using marshalling wands or lighted hand-held wands, demonstrate the following aircraft marshalling signals:

- stop,
- move ahead,
- move back,
- turn left,
- turn right,
- slow down,
- all clear,
- cut engines, and
- start engines.



In the real environment these signals are to be executed by the marshaller while positioned forward of the left wing tip of the aircraft, within view of the pilot.

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 *Imperial Oil Limited. (2007). Aeronautical Information Manual. Retrieved 26 February 2007, from http://www.esso.ca/Canada-English/Products/Aviation/PS_A_Marshalling.asp* Figure 1 Marshalling Stop	Raise arms straight above the head. Move arms back and forth, crossing arms over the head.
 *Imperial Oil Limited. (2007). Aeronautical Information Manual. Retrieved 26 February 2007, from http://www.esso.ca/Canada-English/Products/Aviation/PS_A_Marshalling.asp* Figure 2 Marshalling Move Ahead	Arms are in the prove position, bent at the elbow, in front of the body with the upper arm parallel to the ground. Move the hands from in front of the body toward the head.
 *Imperial Oil Limited. (2007). Aeronautical Information Manual. Retrieved 26 February 2007, from http://www.esso.ca/Canada-English/Products/Aviation/PS_A_Marshalling.asp* Figure 3 Marshalling Move Back	Starting with the arms straight at the sides of the body, move arms from the waist toward the shoulders, out and away from the body.
 *Imperial Oil Limited. (2007). Aeronautical Information Manual. Retrieved 26 February 2007, from http://www.esso.ca/Canada-English/Products/Aviation/PS_A_Marshalling.asp* Figure 4 Marshalling Turn to Your Left	The right arm points to the right. The left arm is in the prove position, bent at the elbow, away from the body with the left hand above the head. Move the left arm back and forth from the shoulder to above the head.

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 *Imperial Oil Limited. (2007). Aeronautical Information Manual. Retrieved 26 February 2007, from http://www.esso.ca/Canada-English/Products/Aviation/PS_A_Marshalling.asp* Figure 5 Marshalling Turn to Your Right	The right arm points to the right. The left arm is in the prove position, bent at the elbow, away from the body with the left hand above the head. Move the left arm back and forth from the shoulder to above the head.
 *Imperial Oil Limited. (2007). Aeronautical Information Manual. Retrieved 26 February 2007, from http://www.esso.ca/Canada-English/Products/Aviation/PS_A_Marshalling.asp* Figure 6 Marshalling Slow Down	With the arms out in front of the body, move the arms up and down from the waist to the shoulders.
 *Imperial Oil Limited. (2007). Aeronautical Information Manual. Retrieved 26 February 2007, from http://www.esso.ca/Canada-English/Products/Aviation/PS_A_Marshalling.asp* Figure 7 Marshalling All Clear	The left arm remains at the side of the body. The right arm is in the prove position, bent at the elbow, in front of the body with the upper arm parallel to the ground. Give the thumbs up signal with the right hand.
 *Imperial Oil Limited. (2007). Aeronautical Information Manual. Retrieved 26 February 2007, from http://www.esso.ca/Canada-English/Products/Aviation/PS_A_Marshalling.asp* Figure 8 Marshalling Cut Engines	The left arm remains at the side of the body. Position the right arm out from the shoulder, parallel to the tarmac. The right arm should be bent at the elbow. With the right hand, make a cutting motion in front of the throat.

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 *Imperial Oil Limited. (2007). Aeronautical Information Manual. Retrieved 26 February 2007, from http://www.esso.ca/Canada-English/Products/Aviation/PS_A_Marshalling.asp* Figure 9 Marshalling Start Engine(s)	With the left arm straight above the head, form a “V” with the index and middle fingers. With the right arm bent and the upper arm parallel to the tarmac, point the index finger up and curl the fingers. Make a circular, counterclockwise motion with the right hand.



After each marshalling motion is demonstrated, the cadets will practice the motion. After demonstrating all signals, call out each signal and have the cadets execute them. Any combination of signals may be used. Flash cards can also be used for confirmation of this information.

CONFIRMATION OF TEACHING POINT 2

QUESTIONS

Q1. What is the marshalling signal for “start engine”?

Q2. What is the marshalling signal for “stop”?

Q3. What is the marshalling signal for “slow down”?

ANTICIPATED ANSWERS

A1.



A2.



A3.



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Teaching point 3 **Allow Cadets to Practice Marshalling Signals**

Time: 10 min Method: Game



Choose one game from the following.

Either of these two games will be considered confirmation of this lesson.

Cadets will play a game where they pretend to marshal aircraft, or play the game “Simon Says”. Either the instructor or a cadet may play the role of Simon. This game may be repeated as many times as needed for confirmation of the material.

ACTIVITY

OBJECTIVE

The objective of this game is to have the cadets practice marshalling signals.

RESOURCES

Marshalling wands or hand-held lighted wands.

ACTIVITY LAYOUT

This activity is to be conducted in a darkened work area suitable for practicing marshalling motions.

ACTIVITY INSTRUCTIONS

Cadets will play a game where they simulate marshalling aircraft. This game is done in pairs. The first cadet will marshal using marshalling wands or lighted wands. The second cadet will act as the aircraft. The second cadet will take directions from the signals given. The objective of the game is to park the “aircraft” safely.

SAFETY



While cadets are holding the wands, ensure the cadets are at least an arm’s length apart to prevent wands from colliding.

ACTIVITY

OBJECTIVE

The objective of this game is to have the cadets practice marshalling signals.

RESOURCES

Marshalling wands or hand-held lighted wands.

ACTIVITY LAYOUT

This activity is to be conducted in a darkened work area suitable for practicing marshalling motions.

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ACTIVITY INSTRUCTIONS

“Simon Says” is a game for three or more players. One of the people plays the role of Simon. The other players must do what Simon tells them to do. The key phrase is “Simon Says”. If Simon says, “Simon says marshal stop”, the rest of the players must marshal the signal for stop. If players do not marshal the signal for stop, those players are eliminated.

If Simon simply says, “Marshal stop”, without saying “Simon says” first, the rest of the players should not marshal the signal stop; however, if any players marshall any signal, they are eliminated.

The game continues until there is only one player left. The last player in the game is considered the winner.

SAFETY



While cadets are holding the wands, ensure the cadets are at least an arm’s length apart to prevent wands from colliding.

CONFIRMATION OF TEACHING POINT 3

The cadets’ participation in the activity will serve as the confirmation of this TP.

END OF LESSON CONFIRMATION

The cadets’ participation in the marshalling activity will serve as the confirmation of this lesson.

CONCLUSION

HOMEWORK/READING/PRACTICE

N/A.

METHOD OF EVALUATION

N/A.

CLOSING STATEMENT

This lesson was an introduction to aerodrome activities. Marshalling aircraft is one of the many duties performed by ground crew/maintenance staff at an aerodrome.

INSTRUCTOR NOTES/REMARKS

N/A.

REFERENCES

C0-057 Transport Canada. (2006). *Aeronautical Information Manual.* Retrieved 26 September 2006, from http://www.tc.gc.ca/CivilAviation/publications/tp14371/AIR/1-1.htm#1-8.

C3-116 A-CR-CCP-263/PT-001/(ISBN 0-9680390-5-7) MacDonald, A. F. and Peppler, I. L. (2000). *From the Ground Up: Millennium Edition.* Ottawa, ON: Aviation Publishers Co. Ltd.

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C3-133 Imperial Oil Limited. (2007). *Marshalling Signals*. Retrieved 26 February 2007, from http://www.esso.ca/Canada-English/Products/Aviation/PS_A_Marshalling.asp.

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MARSHALLING COMMANDS FLASH CARDS



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STOP

Raise arms straight above the head.

Move arms back and forth, crossing arms over the head.

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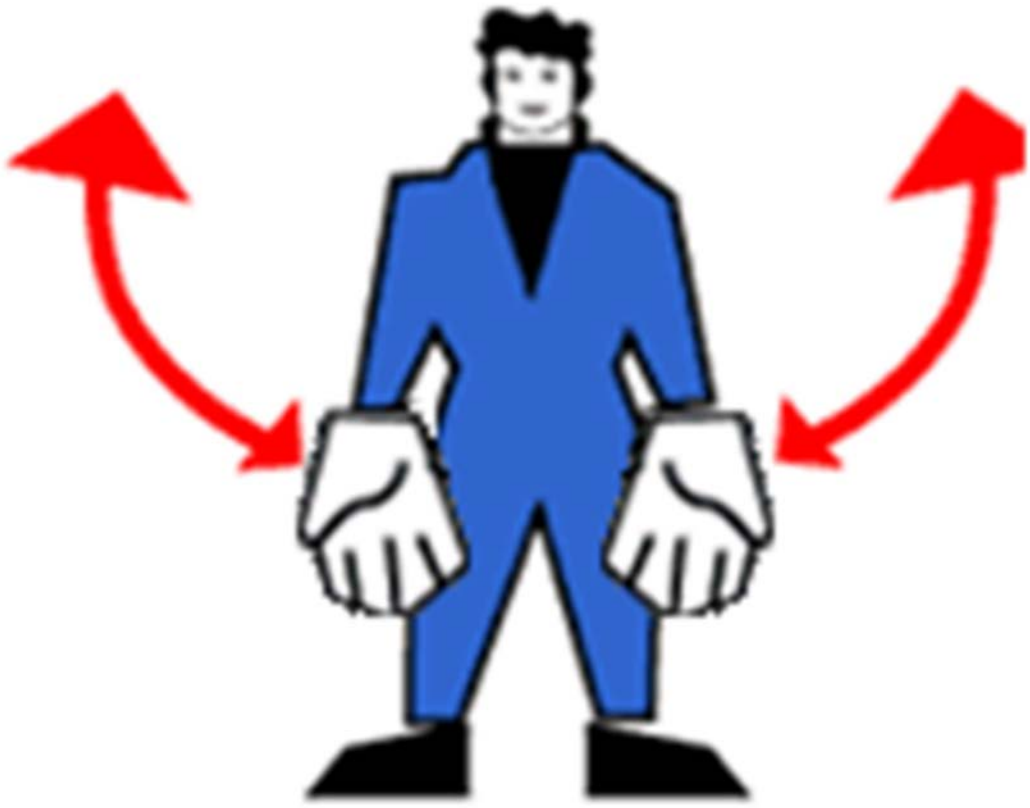
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MOVE AHEAD

Arms are in the prove position, bent at the elbow, in front of the body with the upper arm parallel to the ground.

Move the hands from in front of the body toward the head.

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MOVE BACK

Starting with the arms straight at the sides of the body, move arms from the waist toward the shoulders, out and away from the body.

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TURN TO YOUR LEFT

The right arm points to the right.

The left arm is in the prove position, bent at the elbow, away from the body with the left hand above the head.

Move the left arm back and forth from the shoulder to above the head.

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TURN TO YOUR RIGHT

The left arm points to the left.

The right arm is in the prove position, bent at the elbow, away from the body with the left hand above the head.

Move the right arm back and forth from the shoulder to above the head.

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SLOW DOWN

With the arms out in front of the body, move the arms up and down from the waist to the shoulders.

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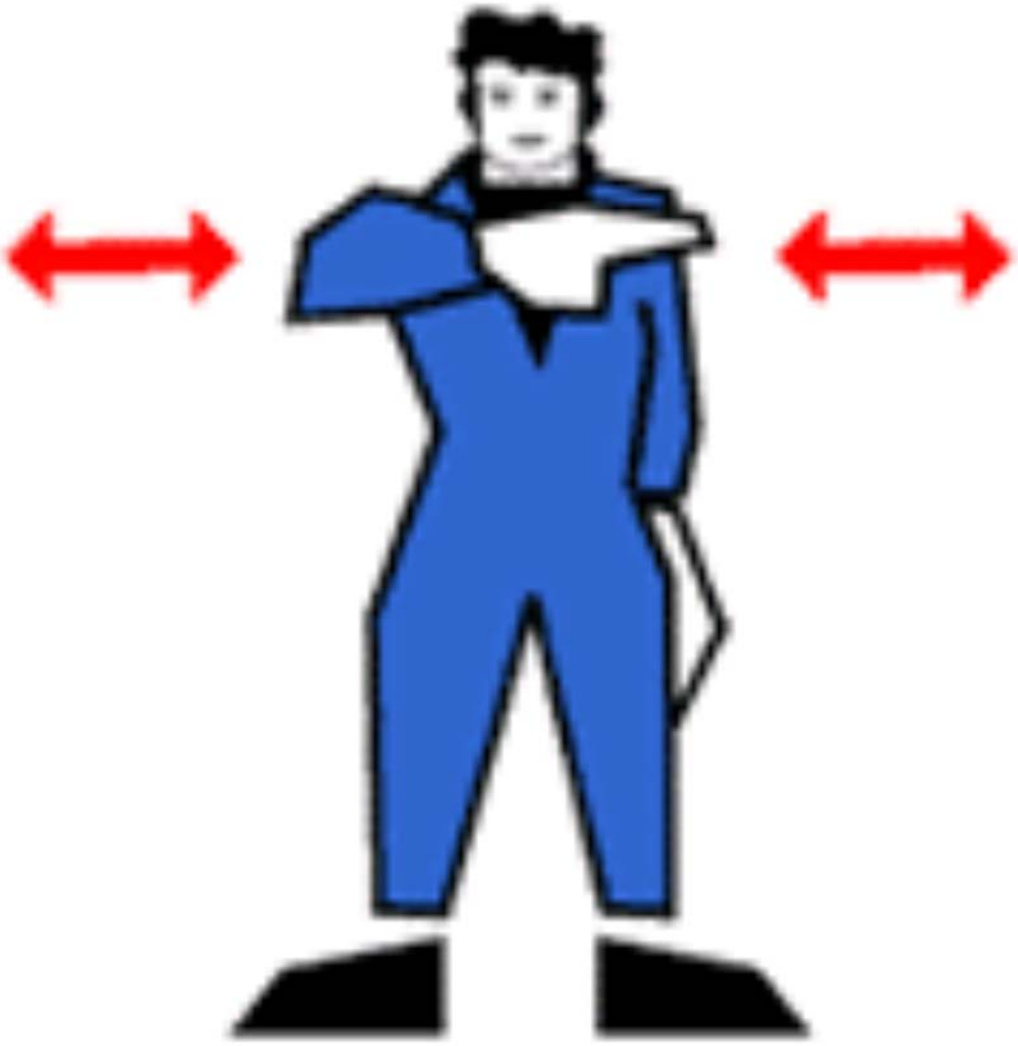
ALL CLEAR

The left arm remains at the side of the body.

The right arm is in the prove position, bent at the elbow, in front of the body with the upper arm parallel to the ground.

Give the thumbs up signal with the right hand.

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CUT ENGINE(S)

The left arm remains at the side of the body.

Position the right arm out from the shoulder, parallel to the tarmac. The right arm should be bent at the elbow.

With the right hand, make a cutting motion in front of the throat.

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START ENGINE(S)

With the left arm straight above the head, form a “V” with the index and middle fingers.

With the right arm bent and the upper arm parallel to the tarmac, point the index finger up and curl the fingers.

Make a circular, counter-clockwise motion with the right hand.

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