

DG MARITIME OBAFUT LESSON CRITERIA

Donning and Doffing Fire Kit and Self Contained Breathing Apparatus (SCBA) – Scott Sigma Type 2		
Duties and responsibilities		
Competence Skill	Knowledge	Assessment Criteria
Have a working knowledge of how to dress a BA wearer and conduct BA start-up procedures.	Vessel Procedure and equipment familiarisation STCW (Latest version)	<ol style="list-style-type: none"> 1. Be able to demonstrate how to correctly dress and undress in fire clothing. 2. Be able to demonstrate the correct procedures for donning and doffing BA. 3. Be able to demonstrate the correct means of conducting a start-up procedure. 4. Be able to demonstrate the correct means of doffing a BA set and undressing the wearer.
Assessment Guidelines		
Means to Achieve competence	Successfully don and doff fire kit and breathing apparatus including conducting a face seal check.	
Criteria		
<p>1.0: Be able to demonstrate how to correctly dress and undress in fire clothing.</p> <ol style="list-style-type: none"> 1.1 Check the boots for scratches, tears, worn soles, disconnecting soles, broken pull-on tabs, oil contamination, etc 1.2 Check the trousers and tunic for tears, rips, stains, damaged zips, burst stitching, worn out. 1.3 Check the flash hood for elasticity of the face piece, stains or other damage. 1.4 Check the gloves, not worn out or cuffs damaged. 1.5 Check the fire helmet for scratches, damage and that all straps are loose. 1.6 Explain the importance of covering all exposed skin on the BA wearer. <p>2.0: Be able to demonstrate the correct procedures for donning and doffing BA.</p> <ol style="list-style-type: none"> 2.1 The BA wearer should be suitably be (ideally) dressed in long trousers and long sleeved shirt or a boiler suit. 2.2 BA wearer to remove items from pockets, crew radio, watches, rings and any body piercings. 2.3 Leggings / fire trousers should be stowed over the boots to allow speedy dressing. 2.4 Put on the woollen socks. 2.5 Put feet in the boots and pull up the leggings / fire trousers. 2.6 Adjust the shoulder straps - not too tight. 2.7 Put on the flash hood pulling it up over the head as this will allow the tunic to secure collar of the flash hood keeping it secure. 		

- 2.8 Put on the tunic and do up the zip. Put thumbs through the thumb loops (if fitted). Pull the flash hood down and ensure the base of it is tucked into the tunic.
- 2.9 Do up the zip of the jacket to chest level.

3.0: Be able to demonstrate the correct means of conducting a start-up procedure.

- 3.1 Check all straps on the BA set and facemask are loosened off.
- 3.2 Put the BA set on the wearers back.
- 3.3 Ensure the shoulder straps are not twisted.
- 3.4 Place facemask support strap around neck.
- 3.5 Pull down on the BA set shoulder straps until waist belt pad is aligned with hips.
- 3.6 Connect waist belt buckle and pull adjusting straps sideways until apparatus is comfortably on the hips with buckle in the centre of body. Tuck in loose strap ends.
- 3.7 If applicable, connect the chest buckle and pull adjusting straps until comfortable.
- 3.8 If required make final adjustment to shoulder straps. Then tuck in loose ends around buckles.
- 3.9 Reset the lung demand valve (LDV) by pressing the side button in.
- 3.10 Open bottle valve fully. Check the reading on pressure gauge. If less than 80% of the charging capability, the bottle must be changed.
- 3.11 Ensure the wearers name is on the tally.
- 3.12 Fit the chin into the chin-cup, pull the harness over the head with centre plate of the head harness to the back of the head. The BA dresser should place one hand on the spider of the mask straps and get the wearer to tighten the straps starting with the bottom two and working up. Tighten lower straps first then upper straps. Tighten centre strap if necessary. Keep all hair clear of the mask or an effective seal may not be achieved. Do NOT overtighten.
- 3.13 Conduct a face seal check:
 - 3.13.1 Insert fingers in the facemask seal and check for a steady flow of air from the mask. Remove fingers and allow the mask to re-seal.
 - 3.13.2 Check function of the bypass valve by opening (rotating the red knurled knob so the 'flat' is facing the body). Once the steady flow of air is heard, close the valve by rotating it back so the 'flat' is facing the mask.
 - 3.13.3 Take a breath and hold it, listen for leaks and monitor the gauge for 10 seconds. The reading on the gauge should not fall. Breathe out.
 - 3.13.4 With the dresser now ready to close the bottle valve, have the wearer take a deep breath, then close the air bottle valve.
 - 3.13.5 Ask the wearer to breathe slowly to drain down the set. The whistle should sound between 60 – 50 bar.
 - 3.13.6 Immediately open the bottle fully.
- 3.14 **At this stage, contact the On Scene Commander to state the team are ready.** If called forward, take helmets and gloves to complete dressing once briefed. If not required, take a deep breathe, depress the side button on the LDV then remove the facemask and await call from the OSC.
- 3.15 Once briefed by the OSC, (put mask back on, if not already done so. Face seal check is not required again) pull up the fire flash hood ensuring there is no skin showing around the mask and there are no leaks.

- 3.16 Place helmet on wearer and check radio communications are working.
- 3.17 Do up the tunic zip fully and the Velcro around the collar.
- 3.18 Put on the fire gloves ensuring the cuffs of the gloves overlap the tunic so no skin is showing.
- 3.19 Check the torch works and is fitted into a pocket of the tunic (90 degree angle).
- 3.20 Check the BA wearer has wedges, EEED, torch, thermal imaging camera, axe and a master key as necessary.
- 3.21 When approval given, enter the scene.

4.0: Be able to demonstrate the correct means of doffing a BA set and undressing the wearer

- 4.1 Remove the fire helmet keeping the gloves on as the helmet may be hot.
- 4.2 Take the gloves off.
- 4.3 Pull the flash hood down.
- 4.4 Take a deep breath and hold.
- 4.5 Press the reset (side) button on the lung demand valve.
- 4.6 Slacken straps off and remove the facemask.
- 4.7 Check the BA wearer is healthy.
- 4.8 Undo the waist belt, slacken off the shoulder straps and remove the BA set.
- 4.9 Ensure all straps are fully loosened off.
- 4.10 Drain down the set and conduct the servicing procedure.
- 4.11 Remove the tunic.
- 4.12 Remove the fire hood.
- 4.13 Remove the fire trousers and boots. Fold the fire trousers down over the fire boots.
- 4.14 Remove the socks and wash them.
- 4.15 Replace the bottle on the BA set and clean the face mask.

5.0: Be able to carry out basic servicing of the BA set for next use.

- 5.1 Ensure the BA set is serviced in accordance with the manufacturer's instructions then stowed ready for use.
 - 5.1.1 Replace the BA bottle and check the new bottle pressure.
 - 5.1.2 Close the bottle valve and drain down the set.
 - 5.1.3 Clean and disinfect the face mask.
 - 5.1.4 Clean harness.
 - 5.1.5 Ensure all straps are fully loosened off.
- 5.2 Ensure all fire kit is in good repair and stowed correctly for use.
- 5.3 Fill out the BA log book. Any defects should be logged and report to the safety officer for action.

DONNING AND DOFFING FIRE KIT AND BA

Correct maintenance of the clothing	ACTION	Y	N	N/A	REMARKS
	Checks the boots for wear and tear				
	Checks the trousers and tunic for wear and tear				
	Checks the flash hood for wear and tear				
	Checks the gloves for wear and tear				
	Checks the helmet for wear and tear				
	Understands the importance of covering all exposed skin on the wearer				

Dress correctly in fire kit	ACTION	Y	N	N/A	REMARKS
	BA wearer had long sleeves and trousers beneath fire kit.				
	Fire trousers stored over boots.				
	BA wearer has removed jewelry and items in pockets.				
	Put fire trousers and boots on.				
	Adjust shoulder straps of fire trousers.				
	Put flash hood on.				
Put tunic on.					

Demonstrate how to don BA Correctly	ACTION	Y	N	N/A	REMARKS
	Check all straps loose.				
	Face mask was connected to demand valve.				
	Put BA set on.				
	Face mask neck strap around neck.				
	Reset Lung Demand Valve				
Open bottle valve fully should be 80% of the full bottle contents.					

	Fill out tally.				
	Put on face mask carry out face seal checks.				
	OSC briefs BA team off air unless called forward immediately.				
	Pull up flash hood.				
	Put on fire gloves.				
	Check has BA wedges, EEBD, torch, axe, master key and TIC.				

	ACTION	Y	N	N/A	REMARKS
Doffing BA and undressing	Remove the fire helmet keeping the gloves on as the helmet may be hot.				
	Take the gloves off.				
	Pull down flash hood.				
	Take a deep breath and hold.				
	Press the reset button on the lung demand valve.				
	Slacken straps off and remove the facemask.				
	Check the BA wearer is healthy.				
	Remove the BA set.				
	Ensure all straps are fully loosened off.				
	Remove the tunic.				
	Remove the leggings / fire trousers and boots. Fold the leggings / trousers down over the fire boots.				
	Remove socks and wash				
	Ensure all fire kit is in good repair and stowed correctly ready for use.				

	ACTION	Y	N	N/A	REMARKS
BA servicing	Replace the bottle and clean the face mask.				
	Ensure the BA set is fully serviced then stowed ready for use.				
	Fill out the BA log book. Defects should be logged and reported to the Safety officer.				

Comments.