

## DG MARITIME OBAFUT LESSON CRITERIA

| <b>Donning and Doffing Fire Kit and Self Contained Breathing Apparatus (SCBA) – Clip on Draeger Mask</b>  |  |   |
|---|--|---|
| <b>Duties and responsibilities</b>  |  |   |
| <b>Competence Skill</b>   | <b>Knowledge</b>   | <b>Assessment Criteria</b>  |
| 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"> <li>1. Be able to demonstrate how to correctly dress and undress in fire clothing.</li> <li>2. Be able to demonstrate the correct procedures for donning and doffing BA.</li> <li>3. Be able to demonstrate the correct means of conducting a start-up procedure.</li> <li>4. Be able to demonstrate the correct means of doffing a BA set and undressing the wearer.</li> </ol> |
| <b>Assessment Guidelines</b>  |  |   |
| <b>Means to Achieve competence</b>  | Successfully don and doff fire kit and breathing apparatus including conducting a face seal check. |   |
| <b>Criteria</b>   |  |   |
| <p><b>1.0: Be able to demonstrate how to correctly dress and undress in fire clothing.</b></p> <ol style="list-style-type: none"> <li>1.1 Check the boots for scratches, tears, worn soles, disconnecting soles, broken pull-on tabs, oil contamination, etc</li> <li>1.2 Check the trousers and tunic for tears, rips, stains, damaged zips, burst stitching, worn out.</li> <li>1.3 Check the flash hood for elasticity of the face piece, stains or other damage.</li> <li>1.4 Check the gloves, not worn out or cuffs damaged.</li> <li>1.5 Check the fire helmet for scratches, damage and that all straps are loose.</li> <li>1.6 Explain the importance of covering all exposed skin on the BA wearer.</li> </ol> <p><b>2.0: Be able to demonstrate the correct procedures for donning and doffing BA.</b></p> <ol style="list-style-type: none"> <li>2.1 On arrival at the fire locker, reset the lung demand valve (LDV) by pressing the red button in.</li> <li>2.2 The BA set bottle should be turned on and the set charged. Then turn off the bottle noting the pressure reading on the gauge. The reading should not be less than 80% of the full bottle contents. Do NOT discharge the set or purge the air.</li> <li>2.3 The BA wearer should be suitably dressed in long trousers and long sleeved shirt or a boiler suit.</li> <li>2.4 BA wearer to remove items from pockets, crew radio, watches, rings and any body piercings.</li> <li>2.5 Leggings / fire trousers should be stowed over the boots to allow speedy dressing.</li> <li>2.6 Put on the woollen socks.</li> </ol> |  |   |

- 2.7 Put feet in the boots and pull up the leggings / fire trousers.
- 2.8 Adjust the shoulder straps - not too tight.
- 2.9 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.
- 2.10 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.
- 2.11 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 the gauge pressure has not dropped more than 10 bar. If it has, the set is likely defective and needs replacing.
- 3.2 Check all straps on the BA set and facemask are loosened off.
- 3.3 Put the BA set on the wearers back.
- 3.4 Ensure the shoulder straps are not twisted.
- 3.5 Place facemask support strap around neck.
- 3.6 Pull down on the BA set shoulder straps until waist belt pad is aligned with hips.
- 3.7 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.
- 3.8 If applicable, connect the chest buckle and pull adjusting straps until comfortable.
- 3.9 If required make final adjustment to shoulder straps. Then tuck in loose ends around metal buckles.
- 3.10 Open bottle valve fully. Check the reading on pressure gauge.
- 3.11 Ensure the wearers name is on the tally.
- 3.12 Have the wearer place the mask up against their face and hold in place.
- 3.13 Pull up the flash hood and ensure all exposed skin is covered around the face.
- 3.14 Put on the helmet and assist in connecting the springs to the helmet.
- 3.15 Conduct a face seal check:
  - 3.15.1 Take a breath and hold it, listen for leaks.
  - 3.15.2 Breathe in and out three times to confirm the exhalation valve works.
  - 3.15.3 Check function of the supplementary supply by pressing centre of the demand valve (rush of air should be heard).
  - 3.15.4 Having informed the wearer of the face seal check process, holding the gauge in your left hand take a deep breath and have the dresser close the cylinder valve.
  - 3.15.5 Ask the wearer to breathe slowly to drain down the set. The whistle should sound between 60 – 50 bar. Continue breathing normally ensuring the mask collapses on the face. Immediately open the bottle fully.
- 3.16 **At this stage, contact the On Scene Commander to state the team are ready.** If called forward, take gloves to complete dressing once briefed. If not required, take a deep breathe, depress the red button on the LDV then remove the facemask and await call from the OSC.
- 3.17 Once briefed by the OSC, (put mask back on, if not already done so. Face seal check is not required again) pull the fire flash hood over the edges of the mask ensuring there is no skin showing around the mask and there are no leaks.
- 3.18 Check radio communications are working.

- 3.19 Do up the tunic zip fully and the Velcro around the collar.
- 3.20 Put on the fire gloves ensuring the cuffs of the gloves overlap the tunic so no skin is showing.
- 3.21 Check the torch works and is fitted into a pocket of the tunic (90 degree angle).
- 3.22 Check the BA wearer has wedges, EEED, torch, thermal imaging camera, axe and a master key as necessary.
- 3.23 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 Have the wearer hold the helmet (which may be hot) and take a deep breath. Depress the red button on the LDV and have the dresser unclip the mask and remove it.
- 4.2 Check the BA wearer is healthy.
- 4.3 Unclip the helmet and have the wearer remove the fire helmet.
- 4.4 Take the gloves off.
- 4.5 Pull the flash hood down.
- 4.6 Undo the waist belt, slacken off the shoulder straps and remove the BA set.
- 4.7 Ensure all straps are fully loosened off.
- 4.8 Drain down the set and conduct the servicing procedure.
- 4.9 Remove the tunic.
- 4.10 Remove the fire hood.
- 4.11 Remove the fire trousers and boots. Fold the fire trousers down over the fire boots.
- 4.12 Remove the socks and wash them.
- 4.13 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.
  - 5.1.6 Reset the LDV by pressing the red button.
- 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 |
|-----------------------------|---|---|---|-----|---------|
|                             | Turned BA set bottle fully on then turn off again leaving the BA set charged. |   |   |     |         |
|                             | 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 |
|-------------------------------------|--|---|---|-----|---------|
|                                     | Put on helmet to check communications.   |   |   |     |         |
|                                     | Check all straps loose.                  |   |   |     |         |
|                                     | Face mask was connected to demand valve. |   |   |     |         |
|                                     | Put BA set on.                           |   |   |     |         |
| Face mask neck strap around neck.   |  |   |   |     |         |

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|--|--|--|--|--|--|
|  | Check gauge pressure has not dropped more than 10 bar.             |  |  |  |  |
|  | 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.      |  |  |  |  |
|  | Put on fire gloves.  |  |  |  |  |
|  | Check has BA wedges, EEBD, torch, axe, master key and TIC.         |  |  |  |  |

|   | <b>ACTION</b>   | <b>Y</b>      | <b>N</b> | <b>N/A</b> | <b>REMARKS</b> |
|---|---|---------------|----------|------------|----------------|
| Doffing BA and undressing                                 | Take a deep breath and hold, reset the LDV, remove the face mask.                                     |               |          |            |                |
|   | Check the BA wearer is healthy.   |               |          |            |                |
|   | Remove the fire helmet keeping the gloves on as the helmet may be hot.                                |               |          |            |                |
|   | Take the gloves off.  |               |          |            |                |
|   | Pull down flash hood.   |               |          |            |                |
|   | 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.                             |               |          |            |                |
|   | BA servicing  | <b>ACTION</b> | <b>Y</b> | <b>N</b>   | <b>N/A</b>     |
| 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.<br>Defects should be logged and reported to the Safety officer. |  |  |  |  |

Comments.