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|  | **F:\USER\Debbie HSE\Safety Signs\Warning\JPG 72dpi\wng84.jpg MAIN HAZARDS** |
| ***Manual Handling*** | * **Taking LPG gas cylinder on and off forklift**
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| ***Crush*** | * **Dropping cyclinder, trapping fingers/hand between cylinder/forklift**
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This work instruction is for the changing of LPG gas cylinders on the Komatsu forklift

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| **TRAINING/LICENSING REQUIREMENTS** |

To be familiar with and trained in this work instruction/Current Forklift Licence

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| **PERSONAL PROTECTIVE EQUIPMENT REQUIREMENTS** |

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| http://jr.chemwatch.net/chemgold3/images/Icons/GHSGLS.BMP | **Glasses:**Chemical glasses with eye shields  | http://jr.chemwatch.net/chemgold3/images/Icons/GHSGLV.BMP | **Gloves:**  | http://jr.chemwatch.net/chemgold3/images/Icons/GHSOVE.BMP | **Protective Clothing:** 1. Overalls’ 2.Long sleeve shirt & trousers. |

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| **PROCESS** |

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| GENERAL RULES |
| * Forklift cylinder should be changed only by trained personnel using proper safety procedures
* Wear proper gloves and eye protection when connecting or disconnecting a cylinder.
* Change cylinder in designated area at least 6 meters from naked flames and/or ignition sources.
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| REMOVING THE EMPTY CYLINDER FROM THE FORKLIFT |
| * Turn the forklift engine off and set the parking brake
* Close the cylinders service valve by turning it to the right (clockwise)
* Disconnect the female quick-connect fitting from the male quick –connect fitting by turning it to the left (counter clockwise)
* Disconnect the toggle clamp that secures the cylinder to the forklift.
* Remove the cylinder from forklift, using proper lifting techniques.
 |  |  | 210kg LPG gas cylinder sizes / gas bottle sizes |
| REINSTALL THE FULL CYLINDER ON THE FORKLIFT |
| * Lift the filled cylinder using proper lifting techniques and place it on the forklift with the locating pin properly inserted through the locating pin hole in the cylinders neck ring
* Reconnect the toggle clamp be sure the clamp properly secures the cylinder
* Make sure the hose is not cut or chafed and the gasket and O-ring are properly installed in the male quick-connect fitting. Connect and tighten the male and female quick-connect fittings
* Slowly open the cylinder service valve by turning it to the left (counter clockwise). Check for leaks using an approved leak-detector solution
* Make sure the hose or cylinder does not extend beyond the forklifts sides or rear
* Make sure the cylinder is properly secured against movement or displacement
* Start engine and resume operation.
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| Warning**F:\USER\Debbie HSE\Safety Signs\Warning\JPG 72dpi\wng84.jpg*** LPG is an explosive gas. Follow the manufacturer’s re-fuelling procedures. Naked flames, running engines and sparks must be at least 6 metres from the filling/changing point.
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