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| Title | **Carrying out repair and maintenance of knitting machines** | | |
| Level | **2** | **Credits** | **17** |

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| Purpose | The competency standard is designed to gain the knowledge and skills to carry out repair and maintenance of knitting machines. This standard covers the procedures and skills to install machine components (needles, cams, sinkers and cylinders) and to perform cleanliness, oiling and greasing of machine parts. Occupational health and safety precautions relevant with this competency standard has also been covered in this standard. |

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| Classification ISCED | 0723 Textiles (clothes, footwear and leather) |

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| Available grade | Competent / Not yet competent |

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| Modification history | N/A |

| **Competency Unit** | **Performance Criteria** | **Knowledge and Understanding** |
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| C1. Replace Needles, Cams and Sinkers of the Knitting Machines | *You must be able to:*   1. **Select appropriate tools and equipment to replace and install needles, cams, cylinder and sinkers.** 2. **Replace and install needles, cams and sinkers of the machine according to manufacturer’s instructions.** 3. **Identify problems in machine parts and report to supervisor for appropriate action.** 4. **Maintain record of replacement of machine parts.** 5. Observe occupational health and safety precautions at all times to work. | *You must know and understand:*   1. Tools and equipment for replacing and installing needles, cams, cylinder and sinkers. 2. Functions and types of needles, cams, cylinder and sinkers in knitting machine. 3. Defects and problems faced during knitting operations regarding needles, cams, cylinder and sinkers. 4. Procedure of installing needles, cams, cylinder and sinkers of knitting machine. 5. Reasons of needle breakage. 6. Importance of record of replacement of machine parts. 7. Safety precautions to be followed during installing needles, cams, cylinder and sinkers. |
| C2. Clean Machine Components | *You must be able to:*   1. Identify the machine component which requires cleanliness. 2. Select tools and materials required for cleaning of machine components. 3. Use appropriate method and technique to clean the machine components. 4. Maintain log book of cleaning of machine parts in proper order. | *You must know and understand:*  K1. Cleaning of main machine, cam box, cylinder, sinkers etc.  K2. Use of L-key, screw driver, hammer, plair, wrench, air pressure, white oil, kerosene oil, and cut pieces of fabric.  K3. Method of maintaining log book for cleaning procedures. |
| C3. Perform Oiling of Machine Components | *You must be able to:*   1. Identify the machine component which requires oiling. 2. Select tools and materials required for oiling of machine components. 3. Use appropriate method and technique to oil the machine components. 4. Maintain log book of oiling procedures of machine parts in proper order. | *You must know and understand:*  K1. Oiling of needle, cylinder, cam box, sinker and feeder.  K2. Use of L-key, screw driver, hammer, plair, wrench, air pressure, white oil, kerosene oil, and cut pieces of fabric.  K3. Method of maintaining log book for oiling procedures.  K4. OHS precautions. |
| C4. Perform Greasing of Machine Components | *You must be able to:*   1. Identify the machine component which requires greasing. 2. Select tools and materials required for greasing of machine components. 3. Use appropriate method and technique to grease the machine components. 4. Maintain log book of greasing procedures of machine parts in proper order. | *You must know and understand:*  K1. Greasing of bearing, main bed, and main shaft.  K2. Use of L-key, screw driver, hammer, plair, wrench, grease, and cut pieces of fabric.  K3. Method of maintaining log book for grease procedures.  K4. OHS precautions. |