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| Title | **Remove existing heating, ventilation and air conditioning (HVAC) unit** |
| Level | **2** | **Credits** | **10** |

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| Purpose | This Competency Standard focuses on the skills required to remove refrigerant and biohazards, look out energy sources, disconnect: electrical wiring from equipment, vent pipe, duct system, fuel pipes, refrigerant pipes, water pipes, from equipment, and remove HVAC equipment in removal of HVAC units. Your knowledge regarding removal of HVAC units procedures, criteria, recovery system, recycling system, safety rules, electrical hazards, mechanical hazards, tagging system, ventilation, fuel, duct, and refrigeration system, disconnection methods, interpret drawings, codes, standards, will be sufficient to provide you the basis for removal existing HVAC units work. |

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| Classification ISCED | 0714 Electronics and automation |

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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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| **C-1 Remove refrigerant and biohazards**  | ***Trainee must be able to…***1. Connect refrigerant recovery system
2. Recover the refrigerant from system
3. Disconnect refrigerant recovery system
4. Recycle the recovered refrigerant
 | ***You need to know and understand…*** 1. Understand biohazards
2. Understand use of recovery system
3. Understand recycling process

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| **C-2 Lock out energy sources** | ***Trainee must be able to…*** 1. Disconnect main power source
2. Disconnect fuel supply system
3. Tag out system
 | ***You need to know and understand…*** 1. Understand safety rules
2. Understand electrical hazards
3. Understand mechanical hazards
4. Understand fuel biohazards
5. Understand tagging system
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| **C-3 Disconnect electrical wiring from equipment**  | ***Trainee must be able to…*** 1. Identify wiring through coding
2. Remove electrical wiring
3. Remove control wiring
 | ***You need to know and understand…*** 1. Understand wiring code system
2. understand of removing procedure of wiring
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| **C-4 Disconnect vent piping from equipment**  | ***Trainee must be able to…*** 1. Mark vent points accordingly
2. Disconnect vent piping from equipment
 | ***You need to know and understand…*** 1. Understand the ventilation system
2. Understand disconnecting methods
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| **C-5 Disconnect fuel piping to equipment**  | ***Trainee must be able to…*** 1. Mark fuel points accordingly
2. Disconnect fuel piping from equipment

  | ***You need to know and understand…*** 1. Understand the fuel system
2. Understand disconnecting methods
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| **C-6 Disconnect duct work to equipment**  | ***Trainee must be able to…*** 1. Mark duct points accordingly
2. Remove insulation
3. Disconnect duct from equipment
 | ***You need to know and understand***1. Understand the duct system
2. Understand disconnecting methods
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| **C-7 Disconnect refrigerant piping to equipment**  | ***Trainee must be able to…*** 1. Mark refrigerant piping points accordingly
2. Remove insulation
3. Disconnect piping from equipment
 | ***You need to know and understand***1. Understand the refrigeration system
2. Understand disconnecting methods
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| **C-8 Disconnect water piping to equipment**  | ***Trainee must be able to…*** 1. Mark water piping points accordingly
2. Close gate valve accordingly
3. Remove insulation
4. Disconnect water piping from equipment
 | ***You need to know and understand…*** 1. Understand the piping arrangement
2. Understand disconnecting methods
3. Understand working of valves
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| **C-9 Remove HVAC equipment**  | ***Trainee must be able to***1. Arrange hoisting machines
2. Remove equipment from foundation

  | ***You need to know and understand***1. Understand type hoisting machine
2. Understand safe handling procedure
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| **C-10 Dispose off removed items**  | ***Trainee must be able to*** 1. Collect removed items accordingly
2. Dispose off removed items
 | ***You need to know and understand***1. Understand disposal procedure
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