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| Title | **Interpret electrical drawing of building for fixing PVC pipes** | | |
| Level | **2** | **Credits** | **15** |

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| Purpose | The competency standard is about interpretation of electrical drawing of a building to identify electrical points and utilized the knowledge of PVC pipes and its fixing techniques. |

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| Classification ISCED | 0732 Building and civil engineering |

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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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| **B1­­:**  **Collect job documentation (e.g. drawing, map, history)** | **Trainee will be able to:**   1. Identify the area / person to collect the job documentation from. 2. Collect the appropriate job document. | **Trainee must know and understand:**   1. Various types of job documentation (e.g. drawing, map, history). 2. Electrical symbols used in drawing/ building map. |
| **B2:**  **Locate electrical points as per drawing** | **Trainee will be able to:**   1. Study the drawing carefully 2. Identify location of different types of electrical points as per job document. 3. Verify location of different types of electrical points as per job document. 4. Apply tags to the different electrical points. | **Trainee must know and understand:**  **K1.**  Different types of drawing  **K2.** Symbols for different electrical points  **K3.** Tagging techniques. |
| **Competency Unit** | **Performance Criteria** | **Knowledge and Understanding** |
| **B3:**  **Perform measurement of PVC pipes of different sizes** | **Trainee will be able to:**   1. Select proper measuring tools. 2. Use proper measuring unit. 3. Perform measuring of PVC pipe as per requirement. | **Trainee must know and understand:**  **K1.** Types of measuring tool  **K2.** Types of measuring units  **K3**. Measuring techniques |
| **B4:**  **Fix joints with PVC solution** | **Trainee will be able to:**  **P1.** Select proper PVC joining solution.  **P2.** Apply PVC solution as per standard.  **P2.** Check the joint strength. | **Trainee must know and understand:**  **K1.** Know the types of jointing solutions.  **K2.** OHS safety precautions using solution.  **K3.** Material specification. |
| **B5:**  **Perform fixing of all pipes with mild steel wire** | **Trainee will be able to:**   1. Lay pipe as per drawing 2. Fix pipe with mild steel wire. 3. Check fixing of pipe in compliance with job document. | **Trainee must know and understand:**  **K1.** The laying and fixing techniques.  **K2**.Jointing techniques using steel wire. |
| **B6:**  **Check all fan box and junction box** | **Trainee will be able to:**  **P1.** Check all fan and light boxes laid out as per drawing.  **P2.** Check all junction boxes laid out as per drawing.  **P3.** Perform necessary adjustments.  **P4.** Clear blockage, if required. | **Trainee must know and understand:**  **K1.** Checking procedure for fan, light and junction boxes  **K2.** Adjustment methods of point joints and junctions  **K3.** Procedure of clearing blockage in fan and junction boxes. |