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| Title | **Navigate sections and merge flat objects from 3D models** | | |
| Level | **3** | **Credits** | **4** |

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| Purpose | The competency standard is designed to learn the creation of the Section and the Flat objects from three dimensional models. |

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| Classification ISCED | 0611 Computer use |

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| Available grade | Competent / Not yet competent |

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| Modification history | N/A |

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| **Competency Unit** | **Performance Criteria** | **Knowledge and Understanding** |
| **J1: Navigate Section Objects** | **The trainee will be able to:**  **P1.** Create section object that exposes the interior details of a model created with 3D objects using “SECTIONPLANE” command.  **P2.** Apply following options to manipulate Section using Grips:   * Base grip * Directional arrow grip * Segment end grip * Menu grip   **P3.** Apply following commands on Section:   * Erase * Move * Copy * Scale * Rotate * Draw order   **P4.** Generate 2D and 3D Sections using option of right click button of mouse.  **P5.** Use the intersection of plane and solids to create a region using “Section” command. | **The student will be able to: K1.** Define Section plane.  **K2.** Learn to deal with Sections.  **K3.** Locate how to generate 2D and 3D Sections.  **K4.** Define Section commands (Slice, etc.) |

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|  | **P6.** Apply “Slice” command on the 3D object. |  |
| **J2: Merge Flat Objects** | **The trainee will be able to:**  **P1.** Create 2D or “flattened” representation of all 3D objects in the current view using “flatshot’ command.  **P2.** Execute “SOLVIEW” command.  **P3.** Generate profiles and sections in viewports created with SOLVIEW using “SOLDRAW” command.  **P4.** Develop 3D view using UCS.  **P5.** Run “SOLPROF” command. | **The student will be able to:**  **K1.** Label Flat representation of the 3D objects.  **K2.** Recognise 3D view using user coordinate system.  **K3.** Discover Configuration of solid profile. |