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| Title | **Analyse cost effective solution** | | |
| Level | **3** | **Credits** | **8** |

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| Purpose | These competency standards will ensure that the trainee will be able to compute the optimal cost based on client requirement and designer’s experience. The trainee will realize that knowledge of printing machine, medium of publication, paper types, size, number of pages and colour jobs that best satisfy the requirement of client and final product/ service is essential. |

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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** |
| **L1:**  **Determine suitable size of the document** | **Trainee will be able to:**  **P1.** Identify the suitable document size in terms of medium of publication.  **P2.** Select appropriate printing process.  **P3.** Decide the suitable orientation of document size.  **P4.** Calculate the most cost effective printing process.  **P5.** Recognize local and international names of paper sizes and printing machines | **Trainee will be able to:**  **U1.** Recognize various available paper sizes both international and local (Letter, Legal, Tabloid, Letter Half Size, A4 – A1, Compact Disc, Postcards, Business Cards, Posters, Banners, etc).  **U2.** Comprehend process of digital printing and its setup along with its pros and cons.  **U3.** Understand screen printing process and its setup, also have knowledge of its pros and cons.  **K1.** Create custom paper sizes in a graphics software, and set it for printing without affecting the image quality.  **K2.** Develop appropriate orientation and size of paper or document.  **K3.** Comprehend offset printing process and its printing machines like Rota, Solna, Roland and Heidelberg. |

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| **L2:**  **Determine Number of Pages and Colours for Printing** | **Trainee will be able to:**  **P1.** Implement the cost efficient solution based on number of pages and number of colours. | **Trainee will be able to describe and explain:**  **K1.** Select appropriate colour mode: RGB, CMYK, Lab, etc  **K2.** Differentiate between spot and offset printing  **K3.** Sift out number of pages verses cost effective solution  **K4.** Define number of colours sufficient for print job verses cost effective solution |
| **L3:**  **Understand the Usage of Appropriate Printing Material and Texture** | **Trainee will be able to:**  **P1.** Differentiate between various types of printing material and their weight  **P2.** Identify suitable printing textures | **Trainee will be able to:**  **U1.** Recognize various printing materials available (glossy, matte paper, vinyl, cloth, etc)  **K1.** Acquaint with various papers’ weights  **K2.** Distinguish various paper textures  **K3.** Recognize lamination (glossy, matte, textured) |