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| **Minor Award Name** | **Image Processing** |
| **Minor Award Code** | **5N1292**  |
| **Level** | **5** |

**Suggested resources to support delivery:**

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| --- | --- | --- | --- | --- |
| **Theme/Topic** | **Type** | **Relevance** | **Author/Source** | **Web Link** |
| **Learning Outcome 1** |  |  |
| Presentation on what is Image Processing | Online Presentation | Presentation on Image Processing, including a history of and key stages within image processing. There is also many other useful presentations on the site.**Project – Exploring the stages of digital image processing from research, planning and design through to production** | Sahil Biswas | <https://www.slideshare.net/sahilbiswas/image-processing-27960248> |
| Evaluating digital artwork | Tutorial | Tutorial on previewing and evaluating images when importing into Photoshop. **Project – Exploring the stages of digital image processing from research, planning and design through to production** | Deke McClelland | <https://www.lynda.com/Photoshop-tutorials/Previewing-evaluating-images/85078/88680-4.html> |
| Importing images into Photoshop from camera and scanners | Website | How to copy images from camera or scan images into Photoshop. This is necessary for skills demonstration – importing an image with the aid of a peripheral device.**Project – Exploring the stages of digital image processing from research, planning and design through to production** | Adobe  | <https://helpx.adobe.com/photoshop/using/acquiring-images-cameras-scanners.html> |
| **Learning Outcome 2** |  |  |
| RGB vs. CMYK | Video | Explanation of RBG and CMYK**Project – Exploring with the learner the concept of colour reproduction and its visual impact** | Express cards | [**https://www.youtube.com/watch?v=9hirYMZ7PQc**](https://www.youtube.com/watch?v=9hirYMZ7PQc) |
| Out of Gamut Colour | Website | Explanation on Out of Gamut Colour**Project – Exploring with the learner the concept of colour reproduction and its visual impact** | thoughtco.com | [**https://www.thoughtco.com/out-of-gamut-graphics-software-glossary-1701757**](https://www.thoughtco.com/out-of-gamut-graphics-software-glossary-1701757) |
| Out of Gamut Colour | Website | Selecting out of Gamut Colour in Photoshop**Project – Exploring with the learner the concept of colour reproduction and its visual impact** | Tim Grey | <http://asktimgrey.com/2017/04/10/selecting-out-of-gamut-colors/> |
| Defining gamut and colour space | Website  | tutorial explains gamut (the range of colours a camera or printer can produce) and colour space (a standard that defines a specific set of colours**Project – Exploring with the learner the concept of colour reproduction and its visual impact** | LinkedIn Learning Solutions | <https://www.youtube.com/watch?v=jVkjaUCkMps> |
| Adjusting Colour and Tone | Website | Overview of how to adjust colour and tone in Photoshop and why this would be necessary**Project – Exploring with the learner the concept of colour reproduction and its visual impact** | AdobeLynda.comLaura Shoe | <https://helpx.adobe.com/photoshop/using/adjusting-color-tone-cs6.html> |
| Understanding Colour Modes | Website | Description of the differing colours modes (RGB, CMYK, Index, Grayscale & Bitmap) with image processing, particularly within Photoshop**Project – Exploring with the learner the concept of colour reproduction and its visual impact** | Adobe | <https://helpx.adobe.com/photoshop/using/color-modes.html> |
| **Learning Outcome 3** |  |  |
| Potential of Photoshop | Website | Description of what the software Photoshop allows the user to do**Project – Exploring with the learner the concept of colour reproduction and its visual impact** | Harry Guinness | <http://www.makeuseof.com/tag/what-can-do-with-photoshop/> |
| **Learning Outcome 4** |  |  |
| Image Copyright in Ireland | Website | Brief explanation of copyright laws regarding images in Ireland**Project – Considering the legal and ethical implications involved in image making to include licensed software, copyright, quotations, and legally binding contacts, use of third party graphics, packaging regulations, code of conduct of professional bodies** | Irish Visual Artists Rights Organisation | [**http://ivaro.ie/copyright/**](http://ivaro.ie/copyright/) |
| Licensed Software | Website | Brief explanation regards licensed software and different types**Project – Considering the legal and ethical implications involved in image making to include licensed software, copyright, quotations, and legally binding contacts, use of third party graphics, packaging regulations, code of conduct of professional bodies** | University of North Carolina  | <https://its.uncg.edu/Software/Licensing/> |
| Code of Conduct of Professional Bodies | Web Document PDF | The Institute of Designers in Ireland: Code of Professional Conduct. A good guide which outlines professional code of conduct for Irish designers**Project – Considering the legal and ethical implications involved in image making to include licensed software, copyright, quotations, and legally binding contacts, use of third party graphics, packaging regulations, code of conduct of professional bodies** | Institute of Designers in Ireland | <http://www.idi-design.ie/content/files/IDI-code-of-conduct.pdf> |
| Packaging Regulations | Web Document PDF | Document outlining EU regulations on Packaging **Project – Considering the legal and ethical implications involved in image making to include licensed software, copyright, quotations, and legally binding contacts, use of third party graphics, packaging regulations, code of conduct of professional bodies** | European Union | <http://www.dublincity.ie/sites/default/files/content/WaterWasteEnvironment/Waste/Documents/Packaging%20SI%20282%202014%20en.si.2014.0282.pdf> |
| **Learning Outcome 5, 6,7,8 & 9** |  |  |
| How to – Adobe Photoshop | Book | Creative professionals seeking the fastest, easiest, most comprehensive way to learn Adobe Photoshop choose Adobe Photoshop CC Classroom in a Book (2017 release) from Adobe Press. The 15 project-based lessons in this book show users step-by-step the key techniques for working in Photoshop and how to correct, enhance, and distort digital images, create image composites, and prepare images for print and the web.**Learner Portfolio/Collection of Work. Can be used to structure learning within the module**  | Andrew Faulkner, Conrad Chavez | <http://www.adobepress.com/store/adobe-photoshop-cc-classroom-in-a-book-2017-release-9780134663456> |
| How to – Adobe Illustrator | Book | Classroom in a book, similar to the above description. Step by step guide for students with all digital lesson files. **Learner Portfolio/Collection of Work. Can be used to structure learning within the module** | Brian Wood | [https://www.amazon.com/Adobe-Illustrator-Classroom-Book-release/dp/0134663446/ref=sr\_1\_1?s=books&ie=UTF8&qid=1502976460&sr=1-1&keywords=adobe+illustrator+cc+classroom+in+a+book+2017+release](https://www.amazon.com/Adobe-Illustrator-Classroom-Book-release/dp/0134663446/ref%3Dsr_1_1?s=books&ie=UTF8&qid=1502976460&sr=1-1&keywords=adobe+illustrator+cc+classroom+in+a+book+2017+release) |
| GIMP  | Book | GIMP is a powerful open source graphics and digital imaging application with almost all the features of its proprietary counterpart, Photoshop**Learner Portfolio/Collection of Work. Can be used to structure learning within the module** | Jan Smith, Roman Joost  | [**https://www.amazon.com/GIMP-Absolute-Beginners-Jan-Smith/dp/1430231688/ref=pd\_sim\_14\_5?\_encoding=UTF8&pd\_rd\_i=1430231688&pd\_rd\_r=G11JPZNBA4PB5CNGW0T6&pd\_rd\_w=SDM86&pd\_rd\_wg=wjKPq&psc=1&refRID=G11JPZNBA4PB5CNGW0T6**](https://www.amazon.com/GIMP-Absolute-Beginners-Jan-Smith/dp/1430231688/ref%3Dpd_sim_14_5?_encoding=UTF8&pd_rd_i=1430231688&pd_rd_r=G11JPZNBA4PB5CNGW0T6&pd_rd_w=SDM86&pd_rd_wg=wjKPq&psc=1&refRID=G11JPZNBA4PB5CNGW0T6) |
| GIMP | Book | GIMP for PhotographersImage editing is a crucial element in the photographic workflow. Image editing tools, most notably Photoshop, are usually sophisticated and deep applications, and are expensive. The only open source tool in this market is the GIMP, which has developed into a powerful, multiplatform system running on Linux, Mac OS X, and Microsoft Windows.**Learner Portfolio/Collection of Work. Can be used to structure learning within the module** | Klaus Goelker | [https://www.amazon.com/GIMP-2-8-Photographers-Editing-Software/dp/1937538265/ref=pd\_sim\_14\_3?\_encoding=UTF8&pd\_rd\_i=1937538265&pd\_rd\_r=G11JPZNBA4PB5CNGW0T6&pd\_rd\_w=SDM86&pd\_rd\_wg=wjKPq&psc=1&refRID=G11JPZNBA4PB5CNGW0T6](https://www.amazon.com/GIMP-2-8-Photographers-Editing-Software/dp/1937538265/ref%3Dpd_sim_14_3?_encoding=UTF8&pd_rd_i=1937538265&pd_rd_r=G11JPZNBA4PB5CNGW0T6&pd_rd_w=SDM86&pd_rd_wg=wjKPq&psc=1&refRID=G11JPZNBA4PB5CNGW0T6) |
| Adobe Photoshop | Website | Photoshop tool galleries for beginners, getting familiar with icons within the software. **Learner Portfolio/Collection of Work. Learner and tutor support throughout the creation of the collection of work.** | Adobe.com | [**https://helpx.adobe.com/photoshop/using/tools.html**](https://helpx.adobe.com/photoshop/using/tools.html) |
| Adobe Image Processing Applications | Website | Where to download Image Processing applications such as Photoshop, Illustrator, and InDesign etc. Site is also full of resources and tutorials. **Learner Portfolio/Collection of Work. Learner and tutor support throughout the creation of the collection of work.** | Adobe.com | [**http://www.adobe.com/ie/?sdid=9J8K4JR6&mv=affiliate**](http://www.adobe.com/ie/?sdid=9J8K4JR6&mv=affiliate) |
| Photoshop | Website | Pluralsight has an extensive range of tutorials to help you learn, master and discover the creative possibilities of Photoshop. **A subscription is required to access the majority of the training**, but you can also sign up for a [free demo account](https://www.digitaltutors.com/11/register.php), where you will find a number of free Photoshop tutorials at your disposal.**Learner Portfolio/Collection of Work. Learner and tutor support throughout the creation of the collection of work.** | Pluralsight.com | <https://creative.pluralsight.com/software/Photoshop-Illustration-tutorials> |
| Adobe | Website | Again, another tutorial site, good resources and intro’s to Photoshop, Illustrator, etc. Again thou, you will need to subscribe but there is some free resources.**Learner Portfolio/Collection of Work. Learner and tutor support throughout the creation of the collection of work.** | Adobe Know How.com | <https://www.adobeknowhow.com/> |
| Photoshop | Website | Great tutorial channel on YouTube, PHLearn also has a website where you can watch demos free, but its quicker and less hassle just to watch them on their YouTube channel. From lots of beginner stuff to advanced **Learner Portfolio/Collection of Work. Learner and tutor support throughout the creation of the collection of work.** | PHLearn | <https://www.youtube.com/channel/UC47XN5bhLTBH5TRFyKaUpKg> |
| All image processing applications | Website | YouTube really is the quickest and one of the best places to solve problems with any image processing application from GIMP to Photoshop. You have an issue, just type it in and you’re guaranteed that someone has posted the solution**Learner Portfolio/Collection of Work. Learner and tutor support throughout the creation of the collection of work.** | YouTube | <https://www.youtube.com/> |
| All image processing applications, tutorials | Website | Again another online tutorial site with great videos, and covers all image processing applications**Learner Portfolio/Collection of Work. Learner and tutor support throughout the creation of the collection of work.** | Lynda.com | <https://www.lynda.com/Photoshop-training-tutorials/279-0.html?utm_source=CJ&utm_medium=affiliate&utm_campaign=CD17318&utm_content=11926&utm_term=photoshop%20tutorials&gclid=CODkr_be8bQCFcbLtAodt2oA2g&bid=11926&AID=CD17318&AIDCJ=12316367&PIDCJ=8150602&SIDCJ=cbq-787404482&subid1=8150602> |
| GIMP | Website | Loads of resource for the FREE image processing application GIMP**Learner Portfolio/Collection of Work. Learner and tutor support throughout the creation of the collection of work.** | GIMP.org | <https://www.gimp.org/links/> |
| Image Processing Forum | Website | Yep, its free tutorials and forums, this time by Google. There is a search bar to look for tutorials and forums**Learner Portfolio/Collection of Work. Learner and tutor support throughout the creation of the collection of work.** | Google.com | [https://plus.google.com/+Photoshop](https://plus.google.com/%2BPhotoshop) |
| **Learning Outcome 10** |  |  |
| Communicating with clients | Website | A Designer’s Guide to Communicating with Clients**Learner Record** | Sunny Bonnell | <https://wearemotto.com/blog/2014/11/16/designers-guide-to-communicating-with-clients/> |
| Communicating with the client | Website | Communication Tips to Keep Clients Happy**Learner Record** | Mark Bunker | <http://greygorilla.com/nine-communication-tips-to-keep-clients-happy/> |
| The Design Brief | Web Document PDF | Good guide for tutors on what to consider when designing and evaluating designer briefs for learners. **Learner Record** | Australian Government  | <https://training.gov.au/TrainingComponentFiles/BSB07/BSBDES402A_R1.pdf> |
| **Learning Outcome 11,12**  |  |  |
| Time Management techniques – Time boxing for Designers | Website | Time boxing: An Outline for More Efficient Design**Learner Record** | Fullline Printing  | <http://www.fulllineprinting.com/resources/the-ideas-collection/timeboxing-an-outline-for-more-efficient-design/> |
| Time Management Techniques | Website | Time management skills techniques, free templates and tools, tips and training**Learner Record** | Alan Chapman | <http://www.businessballs.com/timemanagement.htm> |
| **Learning Outcome 13** |  |  |
| Evaluating image quality | Website  | Site, which gives guides in evaluating digital images, examines sharpness, noise, colour accuracy etc. Appropriate text and video**Learner Record** | Imatest | <http://www.imatest.com/solutions/iqfactors-2/> |
| Learner Record | Website | Good overview of a Learner Record, why and how. Can be adapted to suit Image Processing Module | Mary Barr, M.A. Syverson | <http://www.learningrecord.org/intro.html> |

**Useful Organisations:**

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| **Name** | **Contact Information** |
| Adobe | <http://www.adobe.com/ie/>  |

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| **MOOCs (Massive Online Open Courses)** |
| Free access to online coursesSearch regularly for new courses and new start dates | <https://www.mooc-list.com/>See Above List for online resources |