



ICDL Module Image Editing

Syllabus Version 2.0

Purpose

This document details the syllabus for the Image Editing module. The syllabus describes, through learning outcomes, the knowledge and skills that a candidate for ICDL Image Editing should possess. The syllabus also provides the basis for the theory and practice-based test in this module.

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ICDL Image Editing

This module sets out essential concepts and skills relating to the ability to understand the main concepts underlying digital images and to use an image editing application to enhance images, apply effects, and prepare an image for printing and publishing.

Module Goals

Successful candidates will be able to:

- Know about the main concepts of using digital images and understand graphic format options and colour concepts.
- Open an existing image, save an image in different formats, and set image file options.
- Use built-in options such as displaying toolbars, palettes to enhance productivity.
- Capture and save an image, use various selection tools, and manipulate images.
- Create and use layers, work with text, use effects and filters, and use drawing and painting tools.
- Prepare images for printing or publishing.

CATEGORY	SKILL SET	REF.	TASK ITEM
1 Imaging Concepts	1.1 Digital Images	1.1.1	Identify common uses of digital images like: web and print publishing, distribution by e-mail and mobile phone, home printing, digital photo frames.
		1.1.2	Understand the terms pixel, resolution and identify the key features of a digital image: composed of discrete pixels, represented digitally in binary code.
		1.1.3	Understand the terms lossy, lossless image file compression.
		1.1.4	Understand the term copyright and the implications for image use. Understand the terms royalty-free images and rights-managed images.
	1.2 Graphic Formats	1.2.1	Understand the terms raster and vector graphics and distinguish between them. Identify common raster (jpeg, gif) and vector (svg, eps) formats.
		1.2.2	Recognize proprietary digital image editing application formats: psd, psp, xcf, cpt.

CATEGORY	SKILL SET	REF.	TASK ITEM
	<i>1.3 Colour Concepts</i>	1.3.1	Understand the term colour model and recognize common colour models: RGB, HSB, CMYK, grayscale.
		1.3.2	Understand the terms colour palette, colour depth.
		1.3.3	Understand the terms hue, saturation, colour balance.
		1.3.4	Understand the terms contrast, brightness, gamma.
		1.3.5	Understand the term transparency.
2 Image Capture	<i>2.1 Capturing Images</i>	2.1.1	Save an image from a digital camera to a location on a drive.
		2.1.2	Use the print screen facility to capture a full screen, active window.
		2.1.3	Save an image from an image library, web page to a location on a drive.
		2.1.4	Open a scanning application and scan an image: preview, set scanning parameters, scan, save.
3 Using the Application	<i>3.1 Image Creation</i>	3.1.1	Open, close an image editing application. Open, close image files.
		3.1.2	Create a new image file and set options: colour model, size, resolution, background colour.
		3.1.3	Create a new image file from clipboard.
		3.1.4	Switch between open image files.
		3.1.5	Save an image to a location on a drive. Save an image under another name to a location on a drive.
		3.1.6	Save, export an image as another file type like: jpeg, gif, tiff, png.
	<i>3.2 Settings</i>	3.2.1	Set background colour, foreground colour.

CATEGORY	SKILL SET	REF.	TASK ITEM
4 Working with Images	3.3 Enhancing Productivity	3.2.2	Set grid properties: units, horizontal spacing, vertical spacing, colour.
		3.3.1	Set basic options/ preferences in the application like: transparency, grid settings, measurement units.
		3.3.2	Use available Help functions.
		3.3.3	Use magnification/zoom tools.
		3.3.4	Use the undo, redo command. Use the undo history.
		3.3.5	Display, hide built-in toolbars, palettes, windows.
	4.1 Selection	4.1.1	Select an entire image, layer(s).
		4.1.2	Set selection tool properties: relationship between multiple selections, feathering, antialiasing, width, height.
		4.1.3	Select part of an image using selection tools: rectangular, elliptic, magic wand, magnetic lasso, freehand image.
		4.1.4	Inverse a selection.
		4.1.5	Save a selection, load a saved selection.
	4.2 Image Manipulations	4.2.1	Change the canvas size of an image.
		4.2.2	Resize an image in pixels, measurement units.
		4.2.3	Crop an image.
		4.2.4	Copy, move image(s), selection within an image.
		4.2.5	Rotate, mirror an image, selection within an image.
	4.3 Layers	4.3.1	Define and understand the term layer.
		4.3.2	Create, copy, delete a layer.
		4.3.3	Set layer properties: name, hide, show, lock, opacity, blending mode.

CATEGORY	SKILL SET	REF.	TASK ITEM
5 Drawing and Painting	4.4 Text	4.3.4	Arrange, merge, link, flatten layers.
		4.3.5	Transform layer(s): scale, rotate, flip, move, trim.
		4.3.6	Convert a drawn object to a raster layer.
		4.3.7	Create an animated gif from layers.
		4.4.1	Add, edit, delete text.
		4.4.2	Copy, move text.
		4.4.3	Align text: left, centre, right, justified.
		4.4.4	Apply text formatting: font sizes, font types, font colour.
		4.4.5	Apply a text warp.
	4.5 Effects and Filters	4.5.1	Apply artistic, distortion effects: pixelate, emboss, wind, ripple, twirl, desaturate.
		4.5.2	Apply blur effects: gaussian, motion.
		4.5.3	Apply lighting effects: lighting, flare.
		4.5.4	Apply adjustments: brightness-contrast, hue-saturation, colour balance.
		4.5.5	Apply sharpen, unsharpen mask.
		4.5.6	Apply red eye reduction.
	5.1 Drawing Tools	5.1.1	Add a line to an image: straight line, free drawn line, curves. Set, modify line weight, style and colour.
		5.1.2	Add a shape to an image: rectangle, ellipse, n-shaped polygon. Set, modify line, fill style and colour.
	5.2 Painting Tools	5.2.1	Pick up a colour value with the dropper.
		5.2.2	Fill a portion of an image with the gradient tool, selecting opacity/transparency, radial, linear, position, rotation.

CATEGORY	SKILL SET	REF.	TASK ITEM
6 Prepare Outputs	6.1 Setup	5.2.3	Colour a portion of an image with the paintbrush tool, selecting colour, shape, size.
		5.2.4	Erase a portion of an image with the eraser tool, selecting its shape and size.
		5.2.5	Fill a portion of an image with colour using the paint bucket tool.
		5.2.6	Clone a portion of an image using a clone tool, selecting size, opacity.
	6.2 Print	6.1.1	Preview an image.
		6.1.2	Select appropriate colour depth, resolution, image size, graphic format for web, screen, print use.
		6.2.1	Change print output orientation: portrait, landscape. Change paper size.
		6.2.2	Print an image to an installed printer using defined options, default settings.