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### Overview

This unit covers the skills and knowledge that you will need to maintain and operate a wide format printer.

This involves entering data to create and update images, manipulating the data and finally sending the specified images to the raster image processor (RIP) and then the destination printer.

This unit deals with the following:

1. Enter data to create and update images
2. Produce required graphical image by manipulating data
3. Output specified image to RIP
4. Output to destination wide format printer
5. Carry out test print and calibration
6. Carry out general maintenance to printer in line with manufacturers' specification

During this work you must take account of the relevant worksite operational requirements, procedures and safe working practices AS THEY APPLY TO YOU.

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## Unit 8: Carry Out Wide Format Digital Print Operations

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### Performance criteria

- You must be able to:*
- P1 Carry out the operation in line with legal requirements, workplace policies, manufacturers' instructions, work instructions, Health and Safety and environmental requirements
  - P2 Liaise with customer and receive the job for printing in the correct file format
  - P3 Export and manipulate the image into the RIP to meet the specification
  - P4 Ensure the selected media is appropriate for the image and specification requirements
  - P5 Set up and load the media for printing in accordance with manufacturers' instructions
  - P6 Carry out media feed calibrations and test prints that are appropriate for the printer
  - P7 Print and monitor the quality of printing against specification
  - P8 Carry out sheet cut in line with specification
  - P9 Finish off the print and check against specification
  - P10 Complete job records legibly and in accordance with organisational requirements
  - P11 Carry out the appropriate maintenance for the particular type of printer

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## Unit 8: Carry Out Wide Format Digital Print Operations

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### Knowledge and understanding

*You need to know and understand:*

- K1 What the relevant Health and Safety and environmental requirements are and how to follow them
- K2 Why it is important to keep the work instructions safe and accessible
- K3 The importance of complying with the workplace policies, manufacturers instructions, work instructions, Health and Safety and environmental policies
- K4 What the consequences to you and to others are of not following workplace policies, manufactures instructions, work instructions, Health and Safety and environmental requirements
- K5 What the hazards associated with your working environment are and the risks they pose
- K6 When and why it is necessary to wear personal protective equipment (PPE)
- K7 How to obtain and select appropriate personal protective equipment (PPE)
- K8 Who the relevant personnel are
- K9 What problems may occur
- K10 What action to take if there are problems
- K11 How to ensure that you have the appropriate equipment, tools, materials, techniques and methods needed to complete the activity
- K12 The different ways to liaise with customers
- K13 When the job is in the correct file format
- K14 The different ways to manipulate the image
- K15 Why it is important to calibrate and carry out test prints
- K16 Why it is important to monitor the print quality
- K17 How to identify the different fault indicators
- K18 Why it is important to gas off printed media
- K19 Why it is important to check the finished print against the specification
- K20 When to complete documentation and why it must be completed accurately
- K21 How to keep materials free from contamination, including contamination by people, moving equipment, moving machinery, moving materials and the environment and the consequences of not doing so
- K22 What acceptable protection methods are and when and how to use them
- K23 How to maintain the equipment
- K24 What is regarded as acceptable quality and how to meet that requirement

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## Unit 8: Carry Out Wide Format Digital Print Operations

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### Additional Information

#### Glossary

**Tools:** Scissors, knives, cutting blades, knives, bits, brush

**File:** New, existing

**Image:** Bitmap, vector

**Output:** ICC profile, ink type, media

**Materials:** Vinyl, polyester, metal, wood, plastics, polystyrene, composite boards

**Protection Methods:** Warning signs, coverings, paddings, buffers

**Relevant Personnel:** Line manager, supervisor, team leader etc.

**Relevant Health and Safety and Environmental Requirements:** What your responsibilities are in respect of health and safety and environmental requirements and legislation, regulations, safe working practices, local, national and organisational/site specific procedures

**Equipment:** Manual, automated, electronic

**Finish:** Hand finishing, manually and/or fully automated, machine finishing, polishing, shaping, reducing

**Customer:** Internal colleagues and external clients

**Fault indicators:** Unusual machine noise, vibration, machine stoppage, warning devices, alarm systems, fumes etc.

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