05

WORKSHEET 05 · PRINTING TECHNOLOGIES

Choose the press

designclass
design | engineering | technology

AH Graphic Communication
OVERPRINT · WS05

NAME | CLASS | DATE

GLOAMIN' needs everything from 150 name passes to 20 000 programmes and a 6-metre banner. No single printing technology suits every job: choose, justify and explain the set-up.

Learning intentions

- Understand the role and set-up of the six printing technologies in the course
- Justify the choice of printing technology from a specification

Success criteria · I can...

- ☐ match a job to a printing technology and justify it
- ☐ describe how offset lithography is set up
- ☐ explain a choice with reference to a print specification

29 marks
about 70 minutes
Course notes ch. 05

TASK 1 Match the job

6 MARKS

Choose the most suitable technology for each job: **laser, inkjet, solid ink, wide-format, screen printing** or **offset lithography**.

JOB	TECHNOLOGY	JUSTIFICATION	
20 000 copies of the 16-page programme			1
300 canvas tote bags with a two-colour logo			1
A 6 m × 1 m banner for the harbour wall			1
One hard proof of the poster for the client to check colour			1
150 volunteer passes, each printed with a different name			1
200 colour leaflets printed in the festival office, with as little cartridge and packaging waste as possible			1

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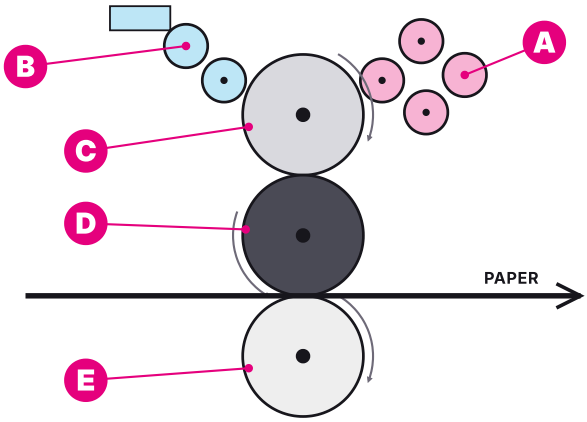
TASK 2 Inside the litho press

10 MARKS

a Name the parts labelled **A–E**. 5



A _____

B _____

C _____

D _____

E _____

b Explain why the process is called **offset** lithography. 1

c Describe **four** set-up requirements for four-colour offset lithography that ensure the programme is printed correctly. 4

TASK 3 Justify from the specification

3 MARKS

Explain, giving **three** reasons and with reference to the print specification, why offset lithography was chosen for the programme. 3

PRINT SPECIFICATION · GLOAMIN' programme
Format: A5 portrait · 16 pages, self-cover · Quantity: 20 000
Stock: 150 gsm silk throughout · Colours: CMYK + PANTONE 806 C, both sides
Bleed: 3 mm · Finish: folded, saddle-stitched, trimmed

TASK 4 Screen printing

5 MARKS

a The tote bags are canvas with a two-colour logo. Explain, giving **three** reasons, why screen printing is suitable. 3

b The festival also wants T-shirts printed with a full-colour photograph, each personalised with a name. Explain why screen printing is **not** suitable. 2

TASK 5 Print terminology

5 MARKS

a Explain why paper opacity and duplexing are important for the double-sided programme. 2

b Describe what calendering does to paper and why it suits the photograph spread. 1

c The client is posted a screenshot of the programme cover printed on glossy paper on an office inkjet printer. Explain, giving **two** reasons, why this is of limited value in judging the quality of the litho print. 2

Reflect
Which question was hardest, and what will you revise before the next lesson?

TOTAL
/29