Unit 202: Changing practices over time

Worksheet 4: Use of heavy plant in groundworks (Learner)

Task 1: Answer the following questions.

1. What is heavy plant in the UK construction industry?

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1. What are some examples of heavy plant commonly used in the UK construction industry?

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1. What regulations govern the use of heavy plant in the UK construction industry?

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1. What is a slip form paver machine used for in the UK construction industry?

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1. What is the main difference between tarmac paver machines and slipform paver machines?

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Task 2: Answer the following questions about how materials have evolved.

1. What is the reason for the declining use of concrete pipes in drainage systems in the UK?

a They are more difficult to install than plastic pipes.

b They are not as durable as plastic pipes.

c They are more expensive than plastic pipes.

d They are not fire-resistant.

1. What are the advantages of using concrete pipes in drainage systems?

a Lightweight and easy to install.

b Low cost and easy maintenance.

c Fire resistance and durability.

d High flexibility and adaptability.

1. Why are clay pipes not commonly used for drainage in modern construction projects in the UK?

a They are too expensive.

b They are not durable enough.

c They are difficult to install.

d Other materials offer advantages over clay pipes.

1. What advantages do plastic pipes offer over clay pipes?

a Cost, durability and ease of installation.

b Fire resistance and durability.

c Flexibility and adaptability.

d Lightweight and low maintenance.

1. Which materials have become the preferred choice for drainage pipes in the UK and many other countries?

a Clay and concrete.

b Concrete and PVC.

c High Density Polyethylene (HDPE) and Polyvinyl Chloride (PVC).

D HDPE and clay.

1. In what type of construction projects are concrete pipes most commonly used in the UK?

a Residential buildings.

b Commercial buildings.

c Industrial buildings.

d Underground drainage systems, culverts and storm water management.

1. What is the primary reason why concrete pipes are suitable for heavy-duty applications?

a They are lightweight.

b They are easy to install.

c They are durable and strong.

d They are low cost.

1. Why are pre-formed kerbs, drainage channels and retaining structures subject to strict regulations and standards?

a To ensure their safety, durability and effectiveness.

b To reduce their cost of production.

c To increase their aesthetic appeal.

d To streamline the construction process.

1. Which of the following materials is commonly used for pre-formed kerbs in civil engineering?

a Timber.

b Metal.

c Concrete.

d Plastic.

1. What is the main advantage of using precast concrete products in civil engineering projects?

a They are cheaper than other construction materials.

b They are quicker to install than other construction materials.

c They are more durable than other construction materials.

d They are more environmentally friendly than other construction materials.