



Gardening and landscape care

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Co-funded by the
Erasmus+ Programme
of the European Union

Gardening and landscape care

Project Title: Innovative and Practical training for low-skilled and migrants Jobs

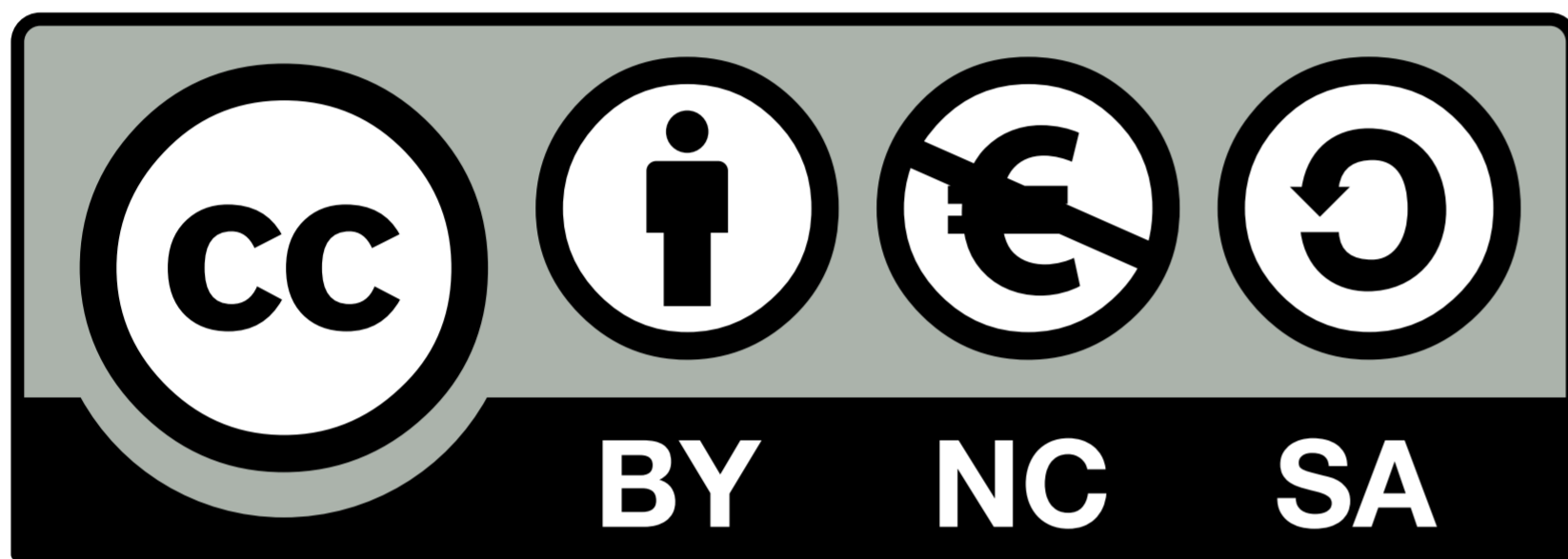
Main objective of the project:

Our goal is to give you, the trainers or educators, the right tools to create the right environment for your students to thrive both in the classroom, but more importantly, on the labor market, after completing your classes.



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Job title

Gardener assistant

ISCO 08 Occupation

Garden and Horticultural Worker

9214

- implementing the project in the green area/field
- maintaining the environment of the green area
- maintaining the flowers and the green area
- creating the decorative compositions

Some related occupations classified elsewhere

- Horticulturist – 6113
- Landscape gardener – 6113
- Gardener – 6113
- Crop farm worker – 9211

Job Description

Garden and horticultural workers perform simple and routine tasks in operations to cultivate and maintain trees, shrubs, flowers and other plants in parks and private gardens, to produce saplings, bulbs and seeds, or to grow vegetables and flowers by intensive cultivation techniques.

Description of functions

- loading, unloading and moving supplies, produce and equipment;
- preparing garden sites and plots using hand tools and simple machines;
- assisting with planting and transplanting flowers, shrubs, trees and lawns;
- maintaining gardens by watering, weeding and mowing lawns;
- cleaning gardens and removing rubbish;
- assisting with propagating, planting and potting seeds, bulbs and cuttings;
- tending plants by hand watering and weeding;
- harvesting and packaging plants for sale and transport;
- performing minor repairs on fixtures, buildings, equipment and fences.

Work conditions

The activity of the landscape worker is included in the occupations of the horticultural field and is carried out in the green spaces. The main technical activities of the landscape worker occupation include implementing the project in the field, care of floricultural material, maintenance of the environment of green spaces, execution of decorative compositions. In order to carry out the work tasks, general competencies are also necessary, such as: communication at the workplace, application of safety work protection, carrying out team activity, organizing the workplace, planning one's own activity.

Occupational interests

Artistic Interests: Artistic pursuits often involve working with shapes, designs, and patterns. It often requires self-expression, with work being able to take place without following a set of clear, predetermined rules.

Investigative Interests

Investigative occupations involve working with ideas and require a lot of thinking. They may involve researching facts and solving problems using reason.

Realistic interests: Realistic occupations frequently involve practical activities, as well as solving concrete problems, often dealing with plants, animals or concrete objects such as wood, tools, machinery. The work is mostly done outside and there is rarely bureaucracy or teamwork involved.

Requirements of job holder

- age: not younger than 16 years
- basic knowledge about nature
- no sensibility for working in nature.
- motivation and interest for work
- Coordination-Adjusting one's own actions in relation to those of other people.
- Active listening/attention-Giving full attention to what other people have to say/show, investing the time necessary to understand the arguments presented, asking questions when necessary.

Unit 1 Sowing seeds

Learning objectives

- Identify the tools needed
- Choose the right type of seeds and soil needed
- Properly organize their workspace
- Equally spread and firmly press the soil into the planter
- Evenly spread the seeds onto the surface of the soil and firmly tamp them down
- Properly water the surface of the soil
- Properly place the planter to ensure the sprouting process



Tools needed

Planters, work bench/work surface



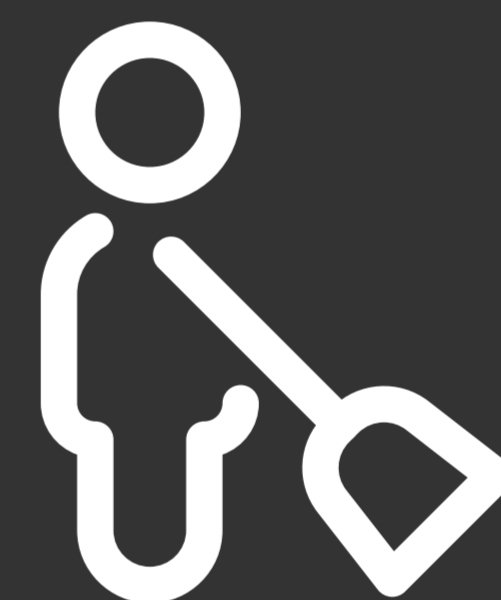
Raw materials:

Planting soil, seeds, water



Steps

1. Establish a work plan
2. Organize the workspace
3. Place the soil and seeds in the seedling tray, tamping them down gently
4. Wet the surface covered with seeds and place the tray in the place intended for germination



Learning objectives

- Identify the tools needed
- Select the proper type of germs and the soil needed
- Properly organize their workspace
- Equally spread and firmly press the soil into the planter
- Evenly spread the seeds onto the surface of the soil and cover them with a new layer of soil
- Properly water the surface of the soil
- Cover the planter with a lid and place it in the right spot for the sprouting process



Tools needed

Planters, work bench/work surface



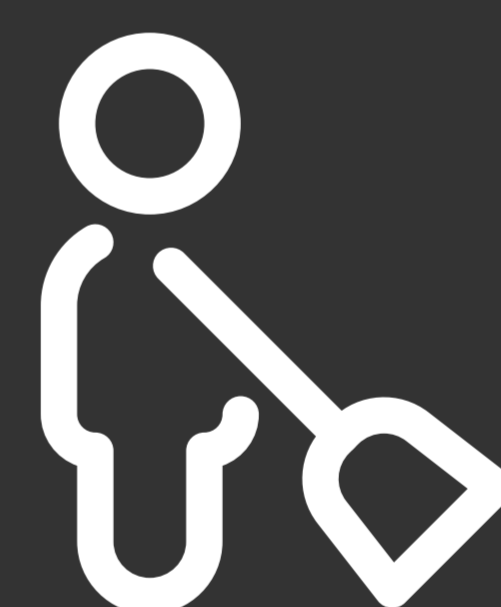
Raw materials

Planting soil, germs, water



Steps

1. Establish a work plan
2. Organize the workspace
3. Place the soil and seeds in the seedling tray, tamping them down gently
4. Place another layer of soil on top of the germs and wet the surface
5. Cover the planter and set it in the place intended for germination



Learning objectives

- Identify the tools needed
- Select the proper type of plants and the soil needed
- Properly organize their workspace
- Equally spread and firmly press the soil into the planter
- Make proper cuttings from the right part and kind of plants
- Plant the cuttings in the planter
- Assure the right level of hydration of the planter and place It in the designated growing spot



Tools needed

Planters, work bench/work surface, knife/cutting tool



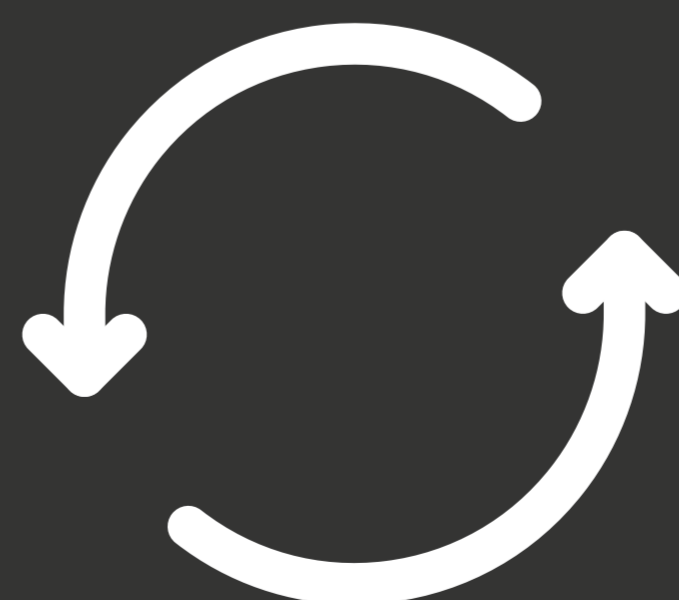
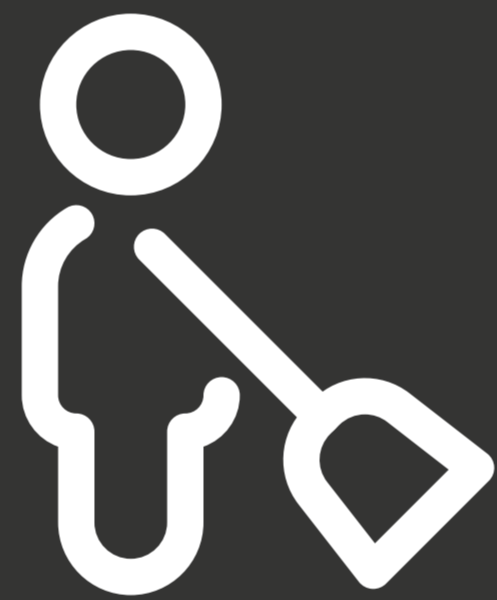
Raw materials:

Planting soil, healthy and thriving mother plant for cutting, water



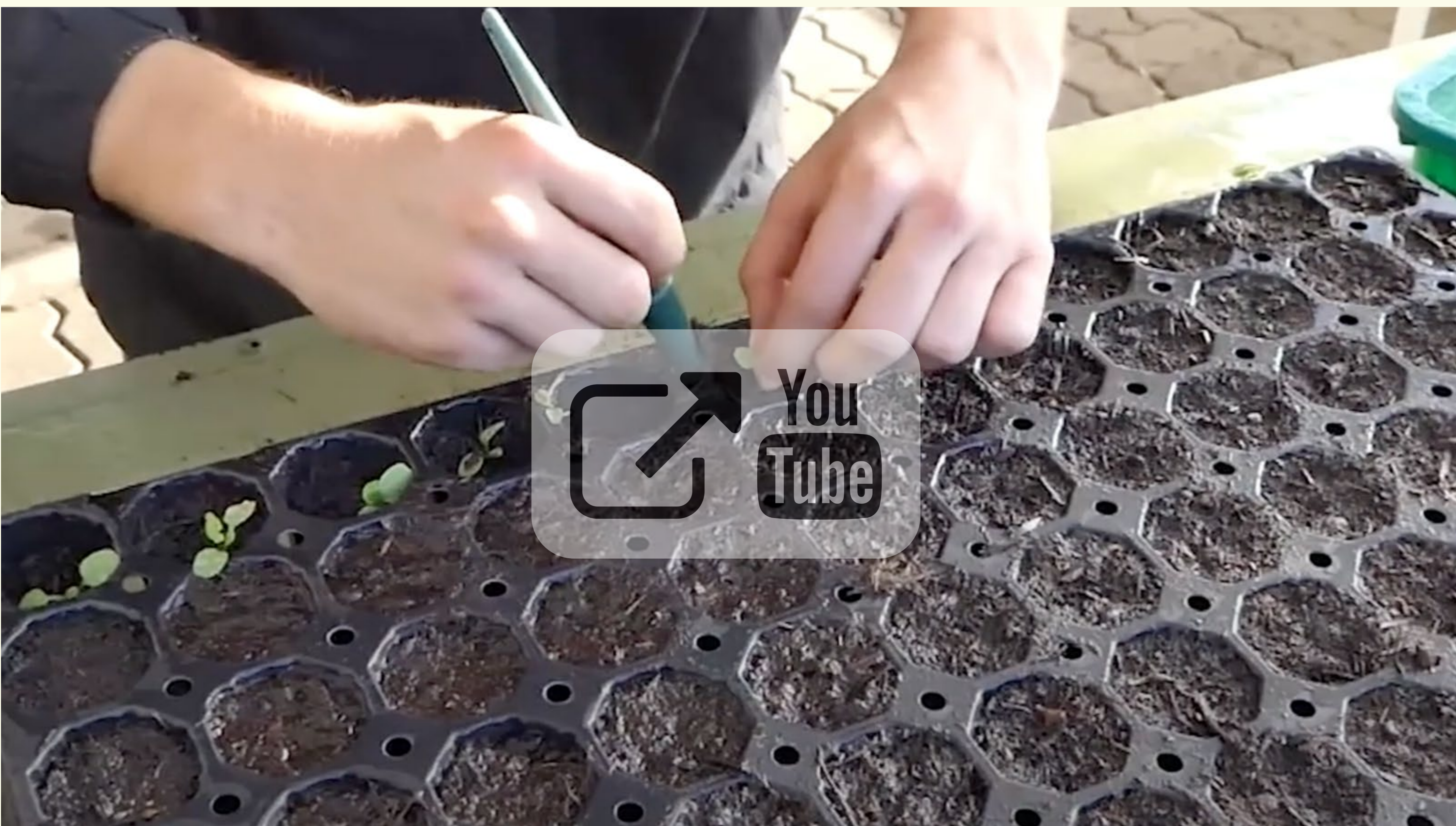
Steps

1. Establish a work plan
2. Organize the workspace
3. Place the soil in the planter
4. Cut from the top of the plant, right below the node and remove the bottom leaves
5. Plant the cuttings in the planter
6. Repeat as many times as necessary
7. Water the soil and place the planter in its designated area to ensure proper growing



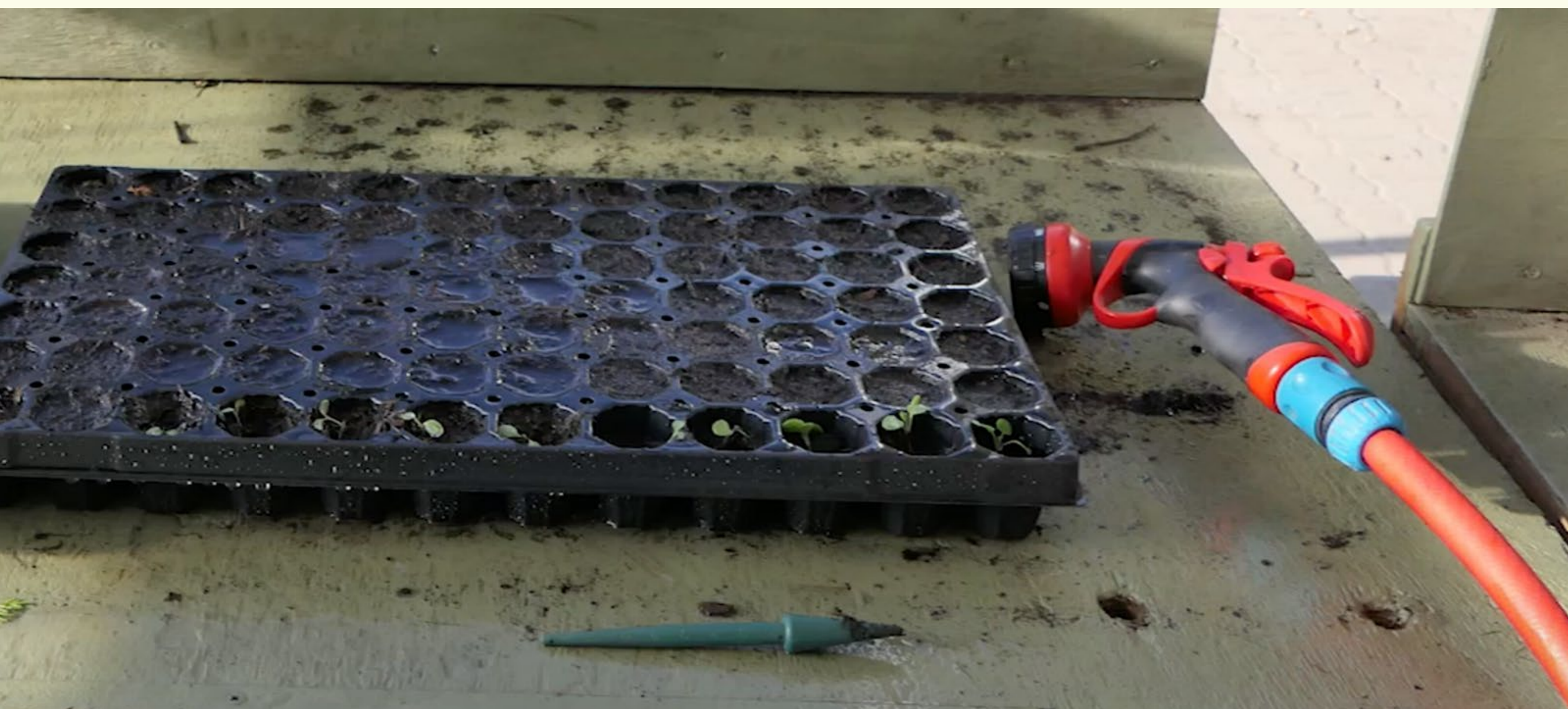
Learning objectives

- Identify the tools needed
- Select the proper type of seedlings and the soil needed
- Properly organize their workspace
- Place the soil in each indent in the planter
- Remove the seedling from the pot and plant it in an indent in the planter, making sure that it is in contact with the soil
- Assure the right level of hydration of the planter and place It in the designated growing spot



Tools needed

Pricking stick, planters with indents, work bench/ work surface, water hose with a mist setting



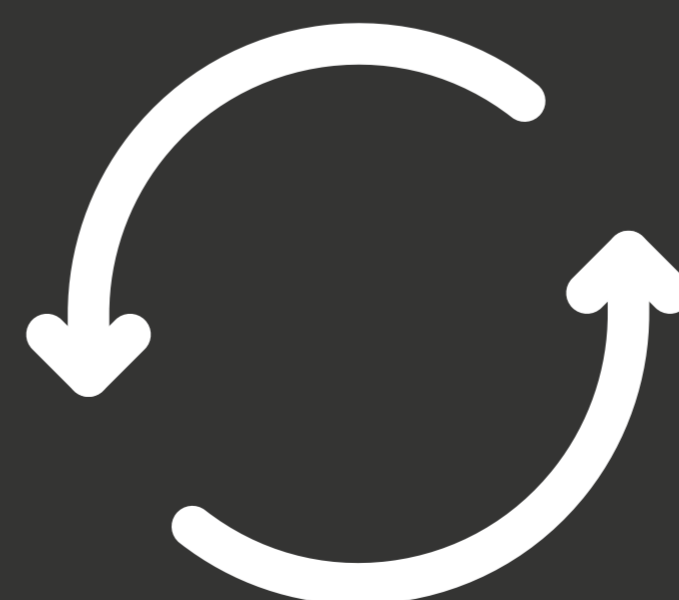
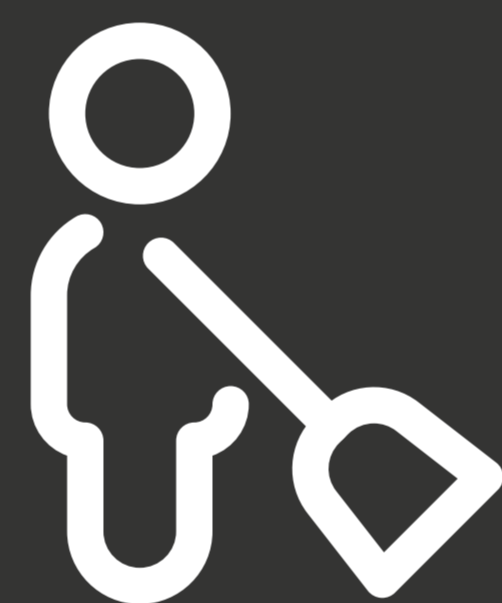
Raw materials:

Planting soil, seedlings, water



Steps

1. Establish a work plan
2. Organize the workspace
3. Place the soil in the planter
4. Remove the seedlings from the pot using the pricking stick
5. Plant the seedlings in the planter
6. Repeat as many times as necessary
7. Water the planter using a hose with the mist setting on and place it in its designated place



Unit 5 Repotting young plants

Learning objectives

- Identify the tools needed
- Select the proper type of young plant and the soil needed
- Properly organize their workspace
- Place the soil in the pot and make a small hole in the middle
- Remove the young plant from the pot by using a pricking stick and plant it in the hole previously made, ensuring contact with the soil
- Assure the right level of hydration of the planter and place it in the designated growing spot



Tools needed

Pricking stick, individual pots, work bench/ work surface, water hose with a mist setting



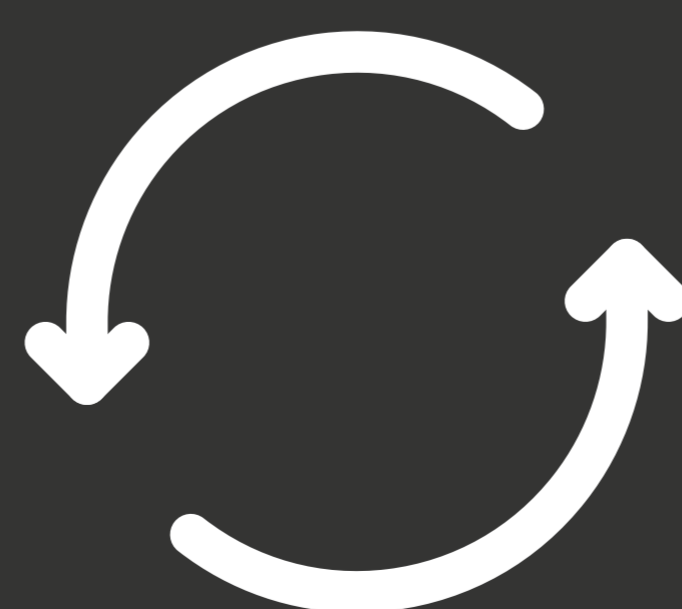
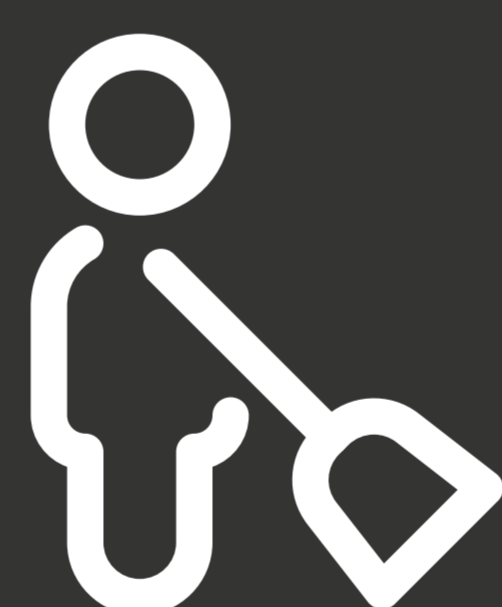
Raw materials:

Planting soil, young plants, water



Steps

1. Establish a work plan
2. Organize the workspace
3. Place the soil in the planter and make an indent in the middle using the pricking stick
4. Remove the young plants from the pot by using a pricking stick and plant them in the individual pots
5. Repeat as many times as necessary
6. Water the pots using a hose with the mist setting on and place it in its designated place



Unit 6 Planting

Learning objectives

- Identify the tools needed
- Select the proper type of plant according to the planting plan and the designated surface
- Properly organize their workspace
- Prepare the surface area for planting with a cultivator and even out the surface using a rake
- Dig a hole using the right tool according to the type of plant
- Remove the plant from the pot and place it in the hole previously made, then cover it with a new layer of soil ensuring the contact between the plant and soil
- Water the newly potted plants by carefully using a hose with the mist setting on



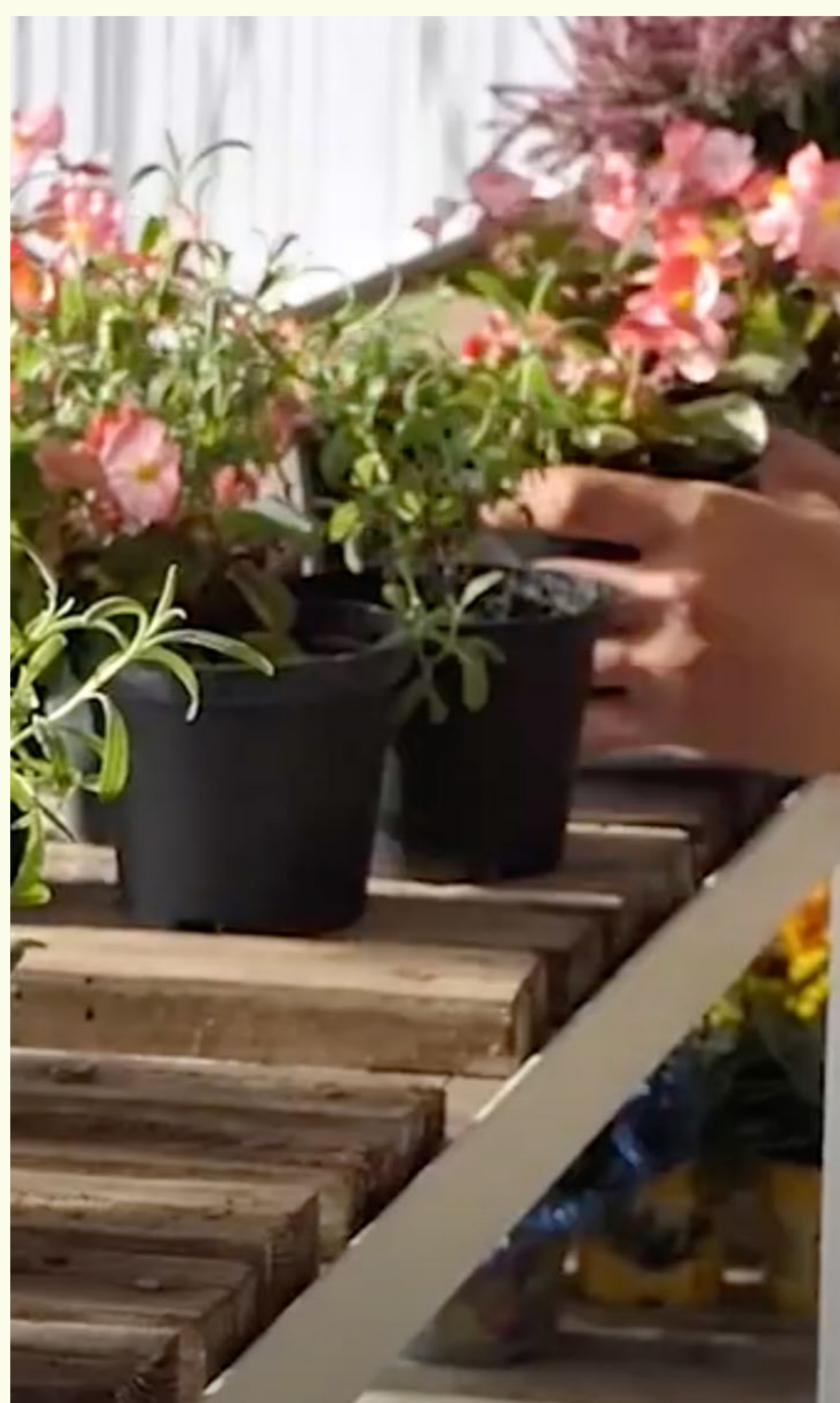
Tools needed

Cultivator, Rake, surface area designated for planting, water hose, planting plan



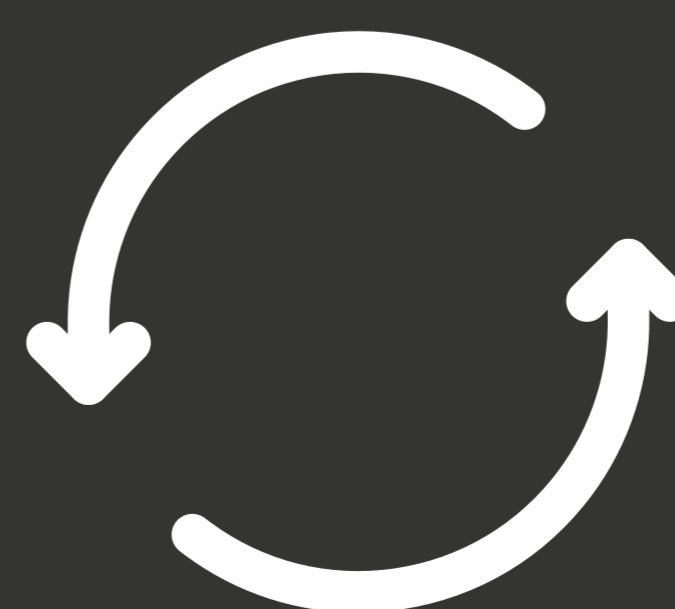
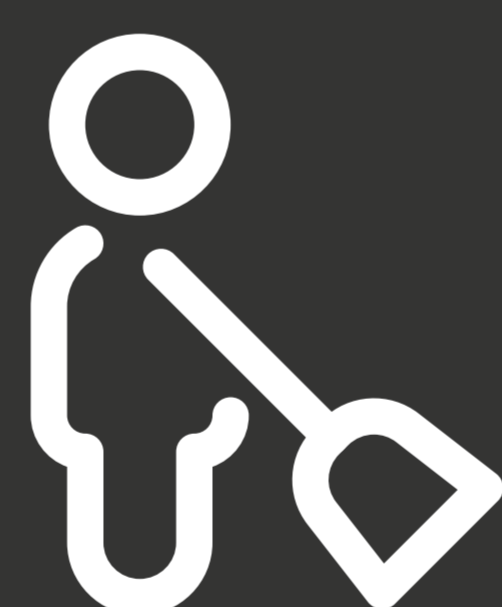
Raw materials

Layers of soil, individual pots with plants, water



Steps

1. Establish a work plan
2. Organize the workspace
3. Prepare the surface area for planting with a cultivator and smooth out the surface using a rake
4. Dig a hole using the right tool according to the type of plant
5. Remove the plant from the pot and place it in the hole previously made, then cover it with a new layer of soil ensuring the contact between the plant and soil
6. Repeat as many times as necessary and making sure that the depth of the hole is according to each type of plant used
7. Water the newly potted plants by carefully using a hose with the mist setting on



Unit 7 Shrub trimming

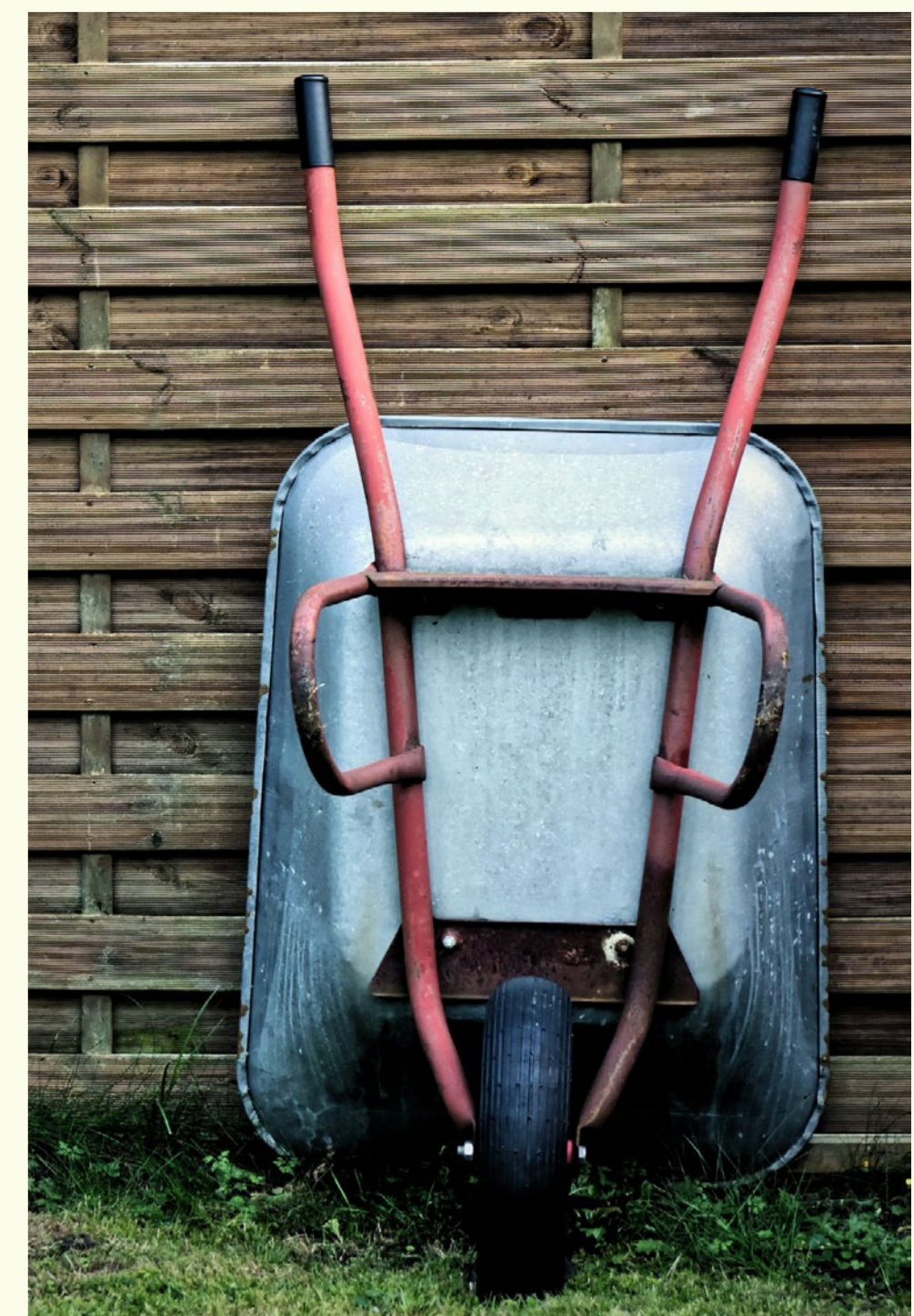
Learning objectives

- Identify the tools needed
- Correctly identify the shrubs that need to be trimmed and establish the steps needed
- Properly organize their workspace
- Properly use the hedge/tree-cutting trimmer in order to trim the shrubs and obtain the desired shape
- Collect and properly store the debris that is left behind



Tools needed

hedge/tree-cutting trimmer, rake, pitchfork, wheelbarrow



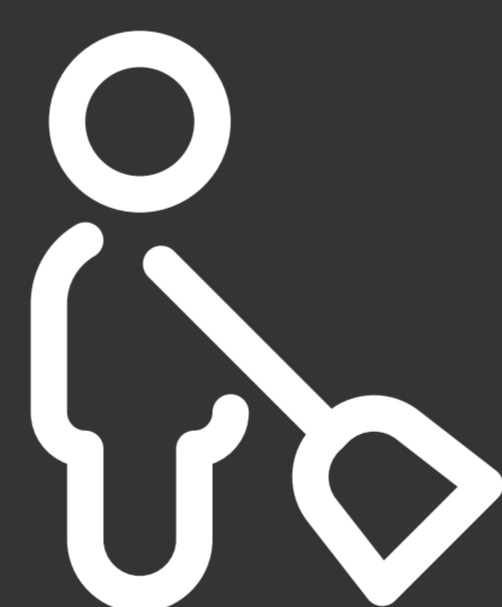
Raw materials

shrubs



Steps

1. Establish a work plan
2. Organize the workspace
3. Prepare the surface, if needed
4. Cut the branches according to the previously established design
5. Check the result and make corrections where needed
6. Collect and properly store the wood debris



Unit 8 Shredding wood debris

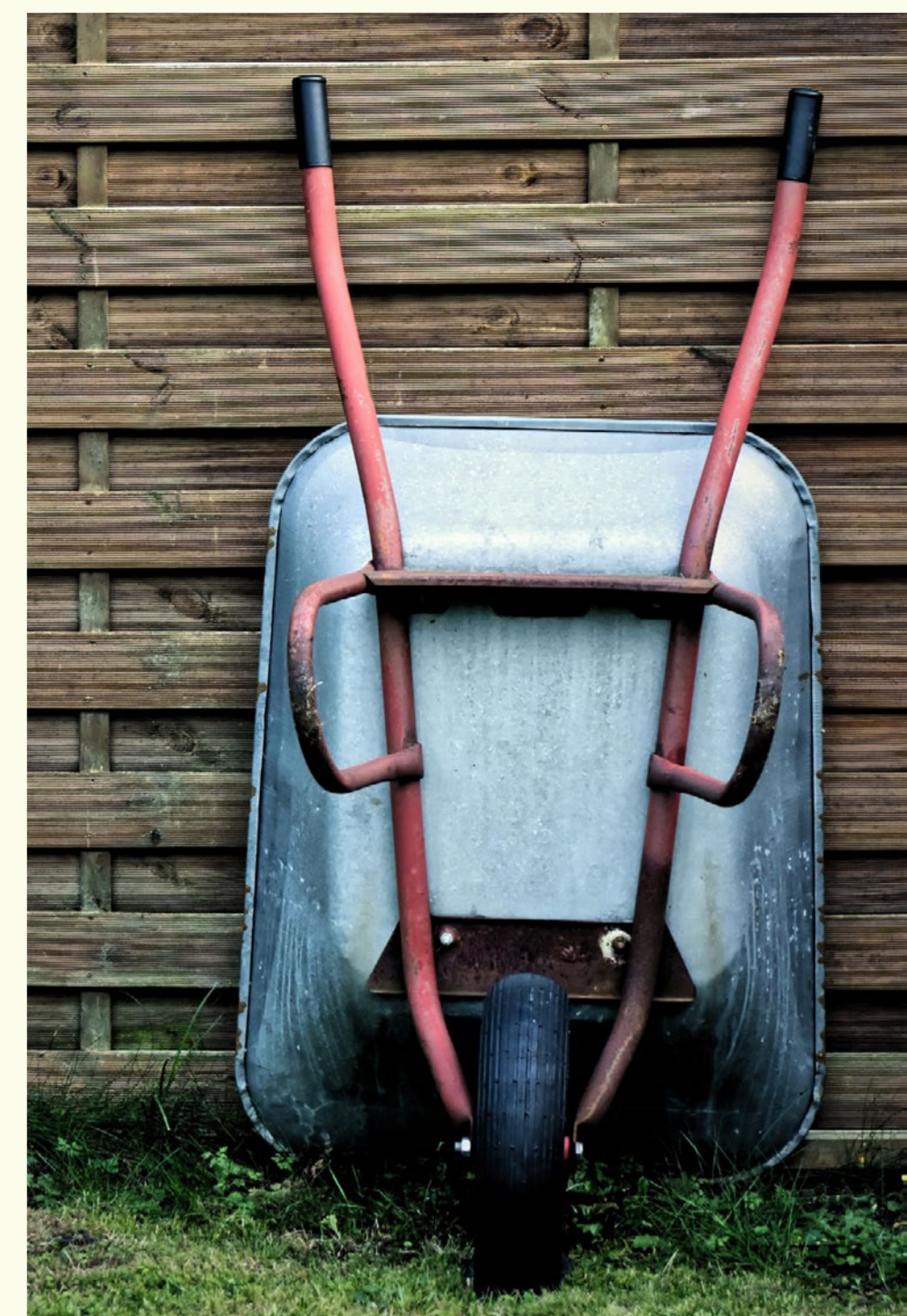
Learning objectives

- Identify the tools needed, the way they operate and the proper protective equipment
- Check the technical condition of the shredding equipment and prepare it for running
- Start the shredder and shred the branches resulting from the trimming process
- Collect and properly store the waste



Tools needed

Wood shredder, protective equipment, shovel, wheelbarrow



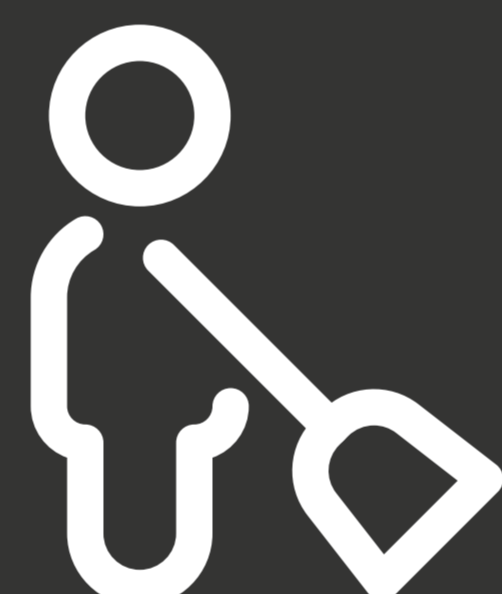
Raw materials

Gas/petrol, motor oil, wood debris



Steps

1. Establish a work plan
2. Organize the workspace
3. Put on the protective equipment
4. Check the technical condition of the shredding equipment and prepare it for running
5. Start the shredder and shred the branches resulting from the trimming process
6. Stop the shredder and store it properly
7. Collect and properly store the waste



Unit 9 Using a leaf blower

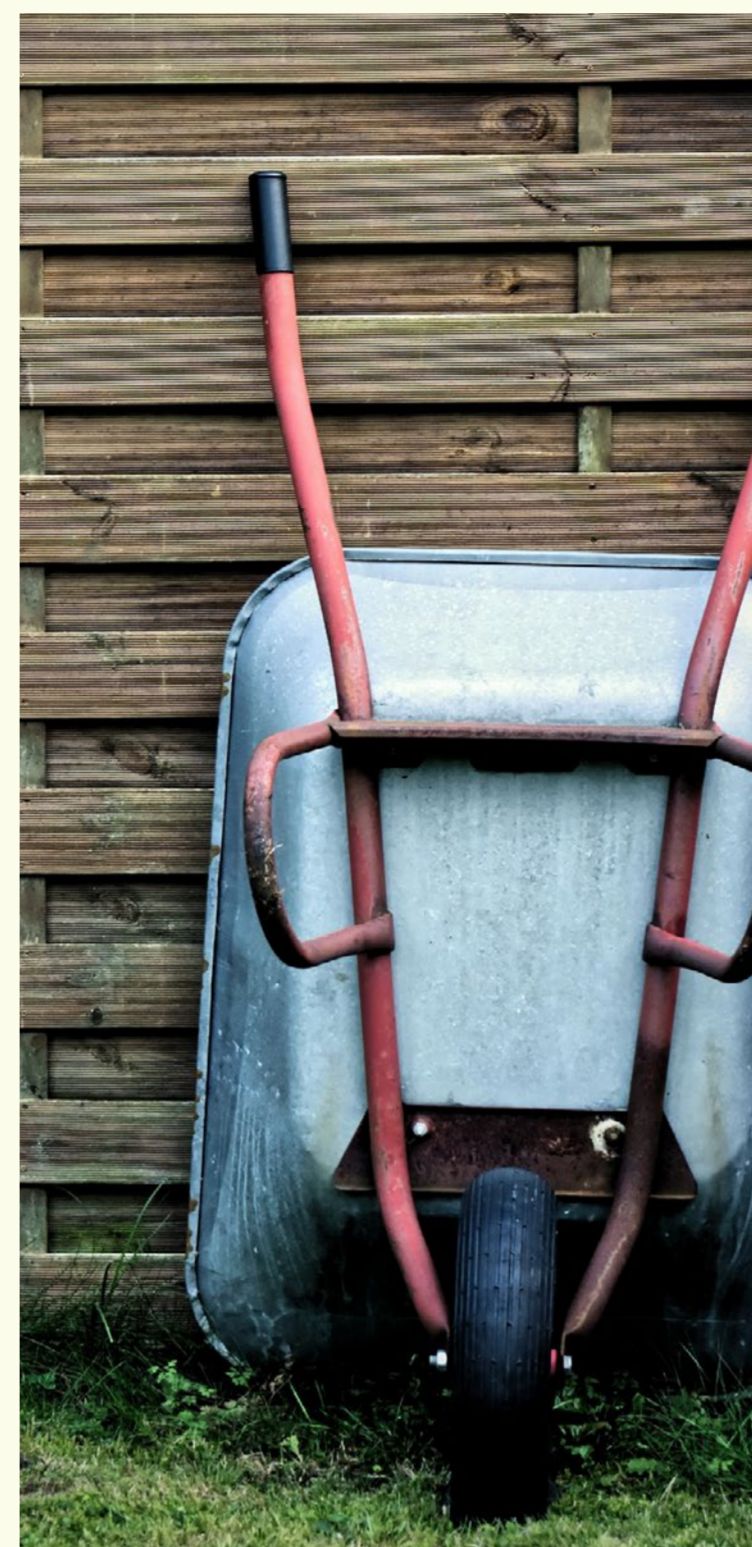
Learning objectives

- Identify the tools needed, the way they operate and the proper protective equipment
- Check the technical condition of the leaf blower and prepare it for running
- Start the engine and disperse the leaves to clear the previously established areas
- Collect and properly store the blown leaves



Tools needed

Leaf blower, protective equipment, shovel, wheelbarrow, trash bags



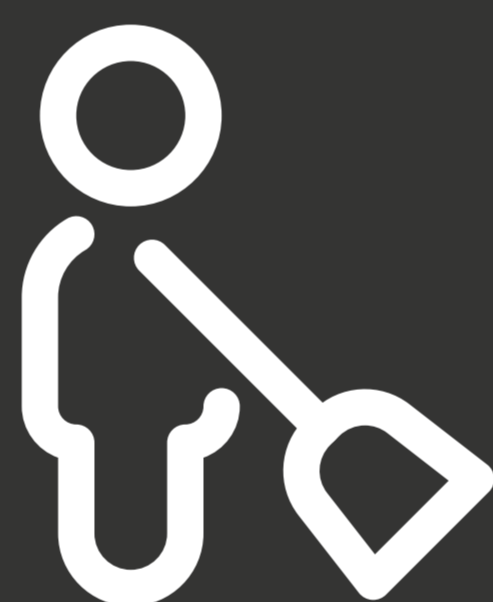
Raw materials

Gas/petrol, motor oil, leaves



Steps

1. Establish a work plan
2. Organize the workspace
3. Put on the protective equipment
4. Check the technical condition of the leaf blower and prepare it for running
5. Start the engine and disperse the leaves into a previously established direction
6. Stop the leaf blower and store it properly
7. Collect and properly store the blown leaves



Unit 10 Mowing the lawn

Learning objectives

- Check and clean the land
- Select and store the debris
- Establish the work plan
- Pick up, check and start the machine
- Mow the lawn according to the established plan
- Stop the machine and collect the cut grass
- Restore the affected areas and plan new species
- Do the final inspection and maintenance of green spaces



Tools needed

Rakes, shovels, garbage bags, lawn mowers, trash bins, short instructional videos, photos



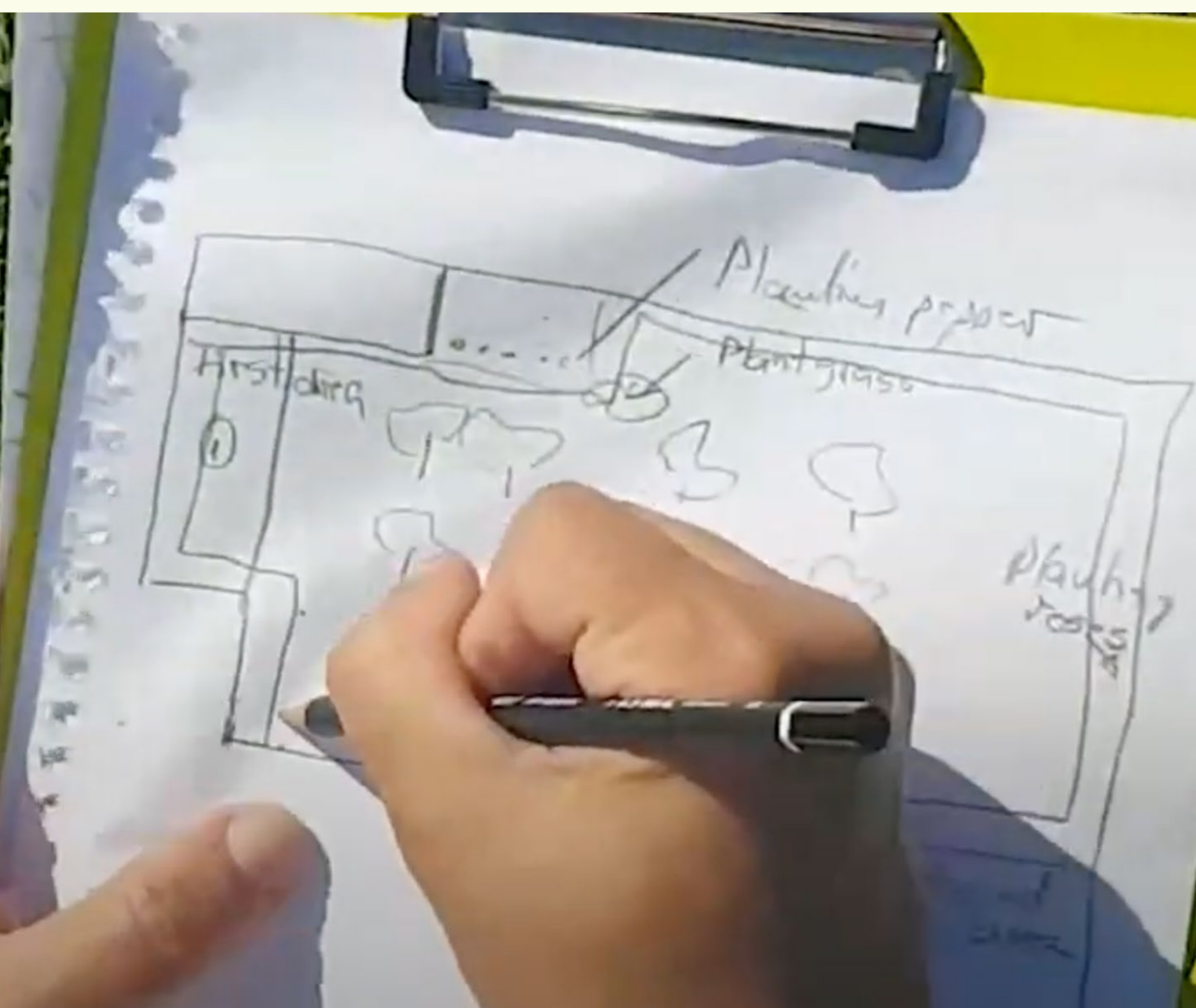
Raw materials

oil



Steps

1. Establish the work plan
2. Clean the dumpster and storing waste
3. Start the machine, perform the routes according to the established plan
4. Stop the machine
5. Evacuate the cut grass and store it as needed



Unit 11 Using a string trimmer

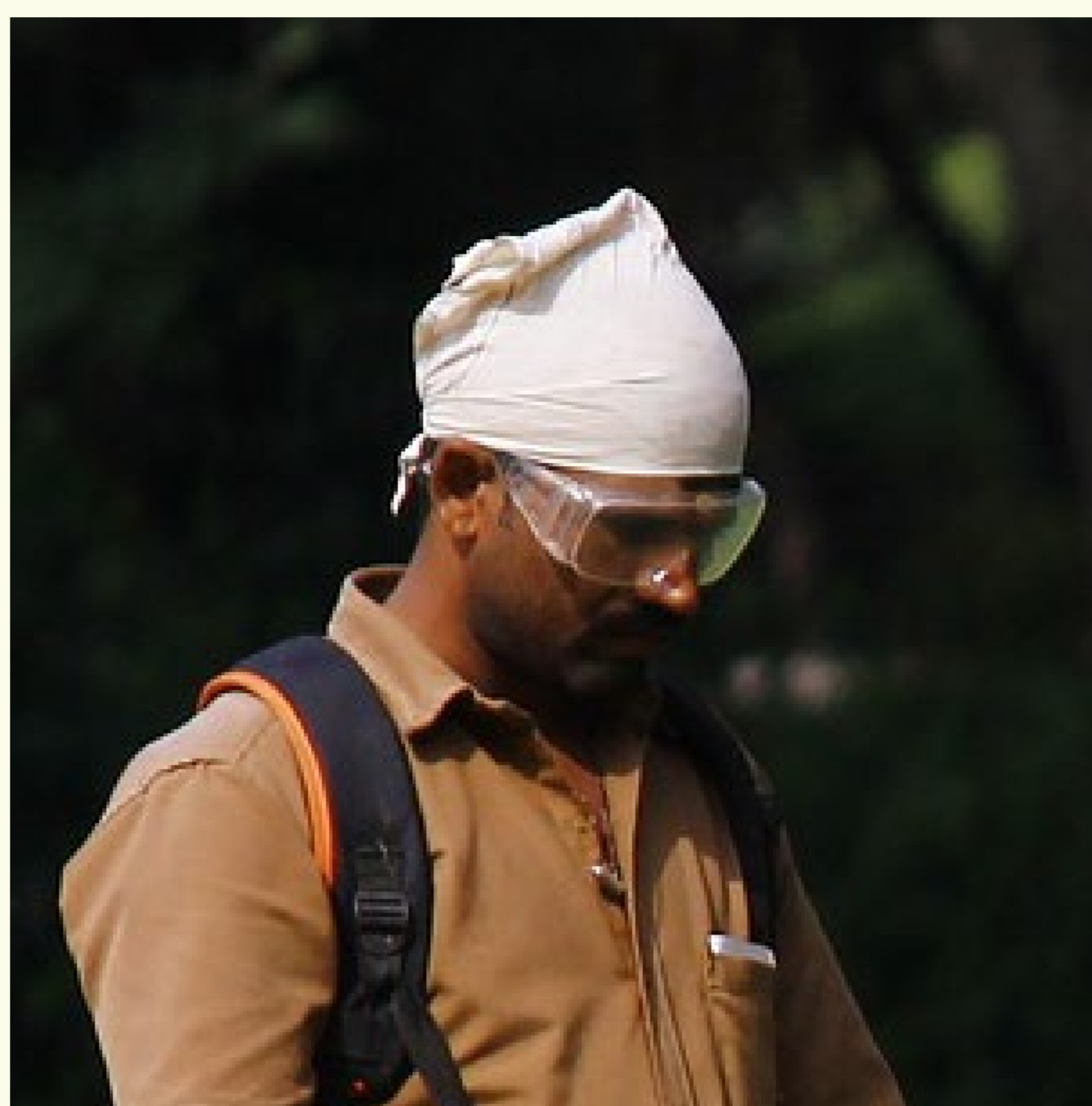
Learning objectives

- Establish the work plan
- Identify the tools needed, the way they operate and the proper protective equipment
- Check the technical condition of the string trimmer and prepare it for running
- Start the string trimmer and cut the grass from the previously established area
- Stop the machine and collect the cut grass



Tools needed

String trimmer, protective equipment, shovel, rake, wheelbarrow, trash bags



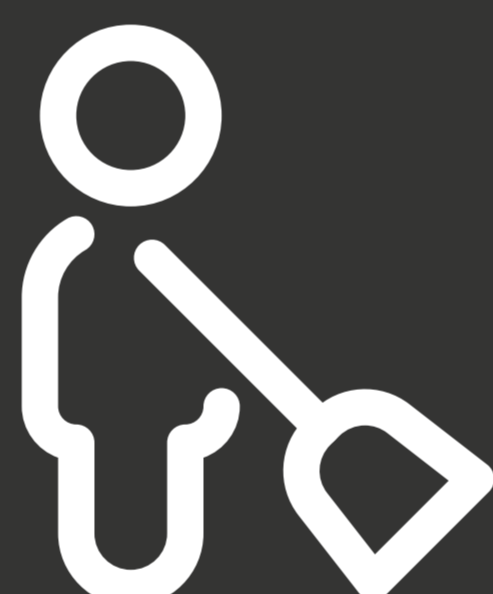
Raw materials

Gas/petrol, motor oil, grass



Steps

1. Establish a work plan
2. Organize the workspace
3. Put on the protective equipment
4. Check the technical condition of the string trimmer and prepare it for running
5. Start the string trimmer and cut the grass from the previously established area, while being careful of any dangers around
6. Stop the string trimmer and store it properly
7. Collect and properly store the blown leaves



Unit 12 **Sowing grass**

Learning objectives

- Establish the work plan
- Organize the workspace
- Prepare the surface area for planting and even out the surface using a rake
- Sow the established areas with grass seeds, according to the plan
- Water the sown areas with a water hose with the mist setting on



Tools needed

Shovel, rake, water hose



Raw materials

Grass seeds, water



Steps

1. Identify the tools needed and the way they operate
2. Identify the areas that need to be sown and prepare them accordingly
3. Select the proper type of seeds needed
4. Prepare the surface area for planting and even out the surface using a rake
5. Equally distribute the seeds on the surface area and establish contact with the soil by using a rake
6. Assure the right level of hydration of the planter by using a water hose with the mist setting on



Unit 13 Measuring and tracing the paving surface

Learning objectives

- Establish the work plan
- Organize the workspace
- Identify the tools needed
- Measure and trace the surface meant to be paved
- Insert the pillars and mark the surface with the help of correction cords
- Make adjustments to the marked routes to ensure compliance with the drawing and flatness



Tools needed

8 pillars, correction cords, spirit level, corner, ruler, sledge-hammer, trowel



Raw materials

Surface area meant for paving



Steps

1. Establish the work plan
2. Organize the workspace
3. Insert the 8 pillars according to the plan and the previously made measurements
4. Mounts the correction cords clock-wise
5. Check the squareness and flatness with the help of the corner and the bubble level
6. Make any adjustments needed



Learning objectives

- Establish the work plan
- Organize the workspace
- Identify the tools needed
- Measure and trace the area for the curbs
- Insert the pillars and mark the surface with the help of correction cords
- Makes adjustments to the marked routes to ensure compliance with the drawing and flatness
- Dig, checking compliance with working depth
- Install curbs and fix them with sand or mortar



Tools needed

2 pillars, correction cords, spirit level, ruler, sledge-hammer, shovel (or other digging tools), curb pliers



Raw materials

curbs, sand



Steps

1. Establish the work plan
2. Organize the workspace
3. Insert the 2 pillars according to the plan and the previously made measurements
4. Mount the correction cords
5. Check the linearity and flatness with the help of the ruler and the bubble level
6. Make any necessary adjustments
7. Dig a channel for the curbs, according to the depth previously established
8. Use the pilers to place the paved curbs accordingly
9. Fix the curb with the shovel by filling the dug channel with sand



Unit 15 Paving

Learning objectives

- Establish the work plan
- Organize the workspace
- Prepare the work surface with pull rods and bedding material (sand)
- Check the depth of the stone and the structure of the bedding layer and remove the surplus with the help of a levelling board (scraper) until we obtain a conforming surface
- Install the pavers according to the established model, creating a parquet type structure, checking the level and flatness
- Insert sand between the joints between the pavers with the help of the shovel and the street broom



Tools needed

2 paving alignment bars, spirit level, shovel, ruler, broom, trowel, scraper, manual compactor



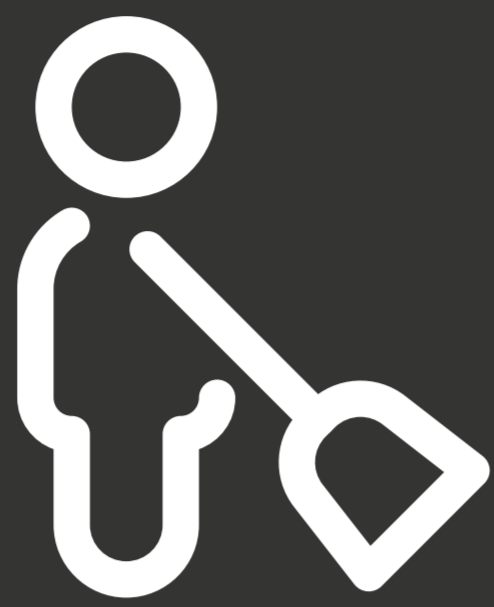
Raw materials

Paving, sand



Steps

1. Establish the work plan
2. Organize the workspace
3. Identify the tools needed
4. Measure the dimensions of the curbs and create a detailed assembly plan
5. Prepare the mounting surface by adjusting to the required depth
6. Insert the bedding material (sand) as a levelling layer
7. Insert the pulling rods on the sides of the surface at the appropriate depth
8. Check the depth of the stone and the structure of the bedding layer and remove the surplus with the help of a levelling board (scraper) until we obtain a conforming surface
9. Repeat until a uniform and homogeneous layer is obtained
10. Remove the pull bars and the resulting channels are filled with sand
11. Install the pavers according to the established model, creating a parquet type structure, checking the level and flatness
12. Insert sand between the joints with the help of the shovel and the street sweeper
13. Repeat the operation after 24 hours





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