

Unit	IND 1	Prepare for and carry out industrial pressure cleaning operations
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IND 1.1	Get and confirm instructions and specific details of industrial pressure cleaning operations to be carried out
IND 1.2	Collect equipment and materials required
IND 1.3	Prepare work area, equipment and materials for use
IND 1.4	Carry out industrial pressure cleaning operations
IND 1.5	Complete industrial pressure cleaning operations

Element	IND 1.1	Get and confirm instructions and specific details of industrial pressure cleaning operations to be carried out
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Performance criteria: -

- 1) get sufficient correct **details** about the pressure cleaning operations that you are required to carry out;
- 2) get sufficient **instructions or specific information** that could affect pressure cleaning operations;
- 3) have the **authority** to carry out the pressure cleaning operations;
- 4) clarify any details, instructions or specific information that you do not understand.

Knowledge criteria: -

- a) the instructions or specific information you might need to carry out pressure cleaning operations;
- b) how to get more information when you need it;
- c) the authority you need to carry out pressure cleaning operations, why you need it and from where you get this authority;
- d) whether you need to have been trained to use pressure cleaning equipment, tools or materials;
- e) why it is important to have been trained to use pressure cleaning equipment, tools or materials

Range statement: -

1. **details** of: location of equipment; type of equipment; access to and availability of equipment; security restrictions; waste disposal requirements; materials required.
2. **instructions or specific information** from: your client; your own organisation's procedures.
3. **authority** from: your client; your own organisation e.g. access to sensitive, hazardous or restricted areas

Element	IND 1.2	Collect equipment and materials required
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Performance criteria: -

- 1) get sufficient details about what **equipment, tools and materials** you might need;
- 2) confirm that equipment, tools and materials are available when you need them;
- 3) confirm that all equipment and tools are operating properly and are safe for you to use;
- 4) take appropriate action if tools and equipment are not operating properly and are not safe for you to use;
- 5) confirm that you have sufficient materials and that they are stored according to suppliers' instructions;
- 6) confirm that any **instructions** for use of equipment, tools or materials are up to date;
- 7) confirm that the instructions provide the information you need where appropriate.

Knowledge criteria: -

- a) **the types of equipment, tools and materials you need and from where to get them;**
- b) **why it is important that you confirm the proper operation of all equipment and tools;**

- c) **the actions to take if the equipment and tools cannot be used;**
- d) **the safety requirements for using equipment, tools and materials, including the Health and Safety at Work Act (HASAW) and Control of Substances Hazardous to Health (COSHH) requirements;**
- e) where and how to get specialist equipment, tools or materials when you need them;
- f) when and where to get instructions on the use of equipment, tools and materials when you need them.

Range statement: -

- 1. **equipment:** protective clothing; warning signs as required by your client or your own organisation's procedures
- 2. **tools:** hand tools; power tools; specialist tools
- 3. **materials:** cloths; consumables; cleaning agents.
- 4. **instructions** from: your client; your own organisation; manufacturers

Element	IND 1.3	Prepare work area, equipment, tools and materials for use
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Performance criteria: -

- 1) **prepare work area** for industrial pressure cleaning operations following instructions and correct procedures;
- 2) set up tools for the **pressure cleaning operations** to be carried out, **surfaces** to be cleaned and types of **dirt** to be removed following manufacturers' or suppliers' instructions;
- 3) take action to protect other people from harm in line with guidelines or codes of practice;
- 4) wear **personal protective equipment** appropriate for the pressure cleaning operations.

Knowledge criteria: -

- a) where to get information on how to prepare work areas and the importance of following this information;
- b) how to set up tools for types of pressure cleaning operations, surfaces and dirt to be removed;
- c) the action to take to protect yourself and other people from harm and the consequences of you not doing so;
- d) the personal protective equipment appropriate for the pressure cleaning operation involved, where it can be obtained and why you should use it.

Range statement: -

- 1. **prepare work area:** erect barriers; set up warning signs; prepare drainage systems; erect ladders and similar access equipment; set up temporary lighting; set up generators.
- 2. **pressure cleaning operations:** unblocking pipes; removing dirt from walls or floors
- 3. **surfaces:** hard; semi-hard; sensitive; porous; non-porous.
- 4. **dirt:** paint; oil; grease; soil; dust
- 5. **personal protective equipment:** gloves; masks; goggles; ear defenders; safety boots; hard hat; coveralls.

Element	IND 1.4	Carry out pressure cleaning operations
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Performance criteria: -

- 1) comply with the relevant health and safety guidelines and requirements to ensure the safety of yourself and others;
- 2) carry out the cleaning operations in line with your instructions and the correct procedures;
- 3) use equipment, tools and materials safely and effectively, following **instructions** and the correct **procedures**;
- 4) use only sufficient **pressure** to remove dirt and prevent damage to surfaces being cleaned;
- 5) take prompt action to deal with any accidental **damage** caused through pressure cleaning operations;

- 6) take appropriate action if there is a fault with the equipment;
- 7) ensure that you leave all surfaces free of dirt

Knowledge criteria: -

- a) why it is important that you follow the manufacturers' instructions when you use the equipment, tools and materials and understand the consequences of not doing so;
- b) how to determine the correct pressure for the surfaces you are cleaning and why this is important;
- c) the hazards associated with pressure cleaning operations and how you can prevent them;
- d) the action to take if a pressure cleaning operation cannot be completed;
- e) what to do if any damage occurs during pressure cleaning operations;
- f) why it is important to take action if any damage or disruption occurs;
- g) the action to take if there is a fault with the equipment.

Range statement: -

1. instructions and procedures **from: manufacturers; your own organisation; your clients**
2. **unit of pressure: pounds per square inch (psi); bar**
3. **damage to: work area; equipment.**

Element	IND 1.5	Complete pressure cleaning operations
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Performance criteria: -

- 1) wear the correct **personal protective equipment** suitable for the **waste** involved;
- 2) make sure that work areas are clear of waste;
- 3) use the correct **containers** for disposing of waste;
- 4) handle and remove the waste safely and according to regulations, instructions and good practice;
- 5) make sure that waste and containers are taken safely to allocated collection points, and make secure where necessary;
- 6) take the correct **action** to deal with damaged or **unserviceable** equipment or tools;
- 7) maintain stocks of consumable materials;
- 8) return the equipment, tools and materials to their correct storage locations.

Knowledge criteria: -

- a) the personal protective equipment required for the waste involved;
- b) where to get personal protective equipment and why you should use it;
- c) the hazards associated with typical waste from pressure cleaning operations;
- d) the correct containers for the waste involved;
- e) where the correct containers are located;
- f) why it is important to handle and dispose of the waste safely according to current legislation and instructions;
- g) where to get information on handling and disposing of waste safely;
- h) the allocated collection points for waste containers;
- i) how to secure waste containers and why this is important;
- j) how to identify damaged or unserviceable equipment, tools and materials;
- k) the action to take to deal with damaged and unserviceable equipment;
- l) the appropriate arrangements for maintaining stocks of consumable materials.

Range statement: -

1. **personal protective equipment:** gloves; masks; goggles; ear defenders; safety boots; hard hat; coveralls.
2. **waste:** paint; oil; grease; soil; dust
3. correct **containers** suitable for waste that is: hazardous; non hazardous.

National Occupational Standards

4. **action:** report details of unserviceable equipment to the relevant person; take equipment to the relevant person; carry out refilling, servicing or cleaning where authorised
5. **unserviceable** because: does not operate properly; requires refilling, servicing or cleaning

Unit	IND 2	Prepare for and carry out industrial mechanical cleaning operations
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IND 2.1	Get and confirm instructions and specific details of the mechanical cleaning operations to be carried out
IND 2.2	Collect equipment and materials required
IND 2.3	Prepare work area, equipment and materials for use
IND 2.4	Carry out mechanical cleaning operations
IND 2.5	Complete mechanical cleaning operations

Element	IND 2.1	Get and confirm instructions and specific details of the mechanical cleaning operations to be carried out
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Performance criteria: -

- 1) get sufficient correct **details** about the mechanical cleaning operations that you are required to carry out;
- 2) get sufficient **instructions or specific information** that could affect mechanical cleaning operations;
- 3) have the **authority** to carry out the mechanical cleaning operations;
- 4) clarify any details, instructions or specific information that you do not understand.

Knowledge criteria: -

- a) the instructions or specific information you might need to carry out mechanical cleaning operations;
- b) how to get more information when you need it;
- c) the authority you need to carry out mechanical cleaning operations, why you need it and from where you get this authority;
- d) whether you need to have been trained to use mechanical cleaning equipment, tools or materials;
- e) why it is important to have been trained to use mechanical cleaning equipment, tools or materials

Range statement: -

1. **details** of: location of equipment; type of equipment; access to and availability of equipment; security restrictions; waste disposal requirements; materials required.
2. **instructions or specific information** from: your client; your own organisation's procedures.
3. **authority** from: your client; your own organisation.

Element	IND 2.2	Collect equipment and materials required
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Performance criteria: -

- 1) have sufficient details about what **equipment, tools and materials** you might need;
- 2) confirm that equipment, tools and materials are available when you need them;
- 3) confirm that all tools and equipment are operating properly and are for you safe to use;
- 4) take appropriate action if equipment and tools are not operating properly and are not safe for you to use;
- 5) confirm that you have sufficient materials and that they are stored according to suppliers' instructions;
- 6) confirm that any **instructions** for use of equipment, tools or materials are up to date;
- 7) confirm that the instructions provide the information you need where appropriate.

Knowledge criteria: -

- a) the types of equipment, tools and materials you need and from where to get them;
- b) why it is important that you confirm the proper operation of all equipment and tools;
- c) the actions to take if the equipment and tools cannot be used;
- d) the safety requirements for using equipment, tools and materials, including the Health and Safety at Work Act (HASAW) and Control of Substances Hazardous to Health (COSHH) requirements;
- e) where and how to get specialist equipment, tools or materials when you need them;
- f) when and where to get instructions on the use of equipment, tools and materials when you need them.

Range statement: -

1. **equipment:** protective clothing; barriers; warning signs as required by your client or your own organisation's procedures
2. **tools:** hand tools; power tools; specialist tools
3. **materials:** cloths; consumables; cleaning agents
4. **instructions** from: your client; your own organisation; manufacturers.

Element	IND 2.3	Prepare work area, equipment and materials for use
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Performance criteria: -

- 1) **prepare work area** to carry out industrial mechanical cleaning operations following instructions and correct procedures;
- 2) set up tools for the **mechanical cleaning operations** to be carried out, **surfaces** to be cleaned **and** types of **dirt** to be removed following manufacturers' or suppliers' instructions;
- 3) take action to protect other people from harm in line with guidelines or codes of practice;
- 4) wear **personal protective equipment** appropriate for the mechanical cleaning operation.

Knowledge criteria: -

- a) where to get information on how to prepare work areas and the importance of following this information;
- b) how to set up tools for types of mechanical cleaning operations, surfaces and dirt to be removed;
- c) the action to take to protect yourself and other people from harm and the consequences of you not doing so;
- d) the personal protective equipment appropriate for the mechanical cleaning operation involved, where it can be obtained and why you should use it.

Range statement: -

1. **prepare work area:** erect barriers; set up warning signs; erect ladders and similar access equipment.
2. **mechanical cleaning operations:** removal of dirt from walls or floors; street cleaning
3. **surfaces:** hard; semi-hard; sensitive; porous; non-porous; textiles; carpets; linoleum
4. **dirt:** paint; oil; grease; soil; dust
5. **personal protective equipment:** gloves; masks; goggles; ear defenders; safety boots; hard hat; coveralls.

Element	IND 2.4	Carry out mechanical cleaning operations
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Performance criteria: -

- 1) comply with the relevant health and safety guidelines and requirements to ensure the safety of yourself and others;
- 2) carry out the cleaning operations in line with your instructions and the correct procedures;
- 3) use equipment, tools and materials safely following **instructions** and the correct **procedures**;
- 4) use equipment, tools and materials effectively to prevent damage to the surfaces,

- 5) take prompt action to deal with any accidental **damage** caused through mechanical cleaning operations;
- 6) take appropriate action if there is a fault with the equipment;
- 7) ensure that you leave all surfaces free of dirt;

Knowledge criteria: -

- a) how to use the appropriate equipment, tools and materials;
- b) the hazards associated with mechanical cleaning operations and how you can prevent them;
- c) why it is important to follow the manufacturers' instructions when you use the equipment, tools and materials and understand the consequences of not doing so;
- d) the action to take if mechanical cleaning operations cannot be completed;
- e) what to do if any damage or disruption occurs during mechanical cleaning operations;
- f) why it is important to take action if any damage occurs;
- g) what action to take if there is a fault with the equipment.

Range statement: -

1. **instructions and procedures** from: manufacturers; your organisation; your clients.
2. **damage** to: the work area; equipment.

Element	IND 2.5	Complete mechanical cleaning operations
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Performance criteria: -

- 1) wear the correct **personal protective equipment** suitable for the **waste** involved;
- 2) make sure that work areas are clear of waste;
- 3) use the correct **containers** for disposing of waste;
- 4) handle and remove the waste safely and according to regulations, instructions and good practice;
- 5) make sure that waste and containers are taken safely to allocated collection points and make secure where necessary;
- 6) take the correct **action** to deal with damaged or **unserviceable** equipment or tools;
- 7) maintain stocks of consumable materials;
- 8) return the equipment, tools and materials to their correct storage locations.

Knowledge criteria: -

- a) the personal protective equipment required for the waste involved;
- b) where to get personal protective equipment and why you should use it;
- c) the hazards associated with typical waste from mechanical cleaning operations;
- d) the correct containers for the waste involved;
- e) where the correct containers are located;
- f) why it is important to handle and dispose of the waste safely according to current legislation and instructions;
- g) where to get information on handling and disposing of waste safely;
- h) the allocated collection points for waste containers;
- i) how to secure waste containers and why this is important;
- j) how to identify damaged or unserviceable equipment, tools and materials;
- k) the action to take to deal with damaged and unserviceable equipment;
- l) the appropriate arrangements for maintaining stocks of consumable materials.

Range statement: -

1. **personal protective equipment:** gloves; masks; goggles; coveralls; ear defenders; safety footwear; hard hats.
2. **waste:** paint; oil; grease; soil; dust
3. correct **containers** suitable for waste that is: hazardous; non hazardous

National Occupational Standards

4. **action:** report details of unserviceable equipment to the relevant person; take equipment to the relevant person; carry out emptying, refilling, servicing or cleaning where authorised
5. **unserviceable** because: does not operate properly; requires emptying, filling up; servicing or cleaning

Unit	IND 3	Prepare for and carry out industrial chemical cleaning operations
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IND 3.1	Get and confirm instructions and specific details of chemical cleaning operations to be carried out
IND 3.2	Collect equipment and materials required
IND 3.3	Prepare work area, equipment and materials for use
IND 3.4	Carry out chemical cleaning operations
IND 6.5	Complete chemical cleaning operations

Element	IND 3.1	Get and confirm instructions and specific details of chemical cleaning operations to be carried out
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Performance criteria: -

- 1) get sufficient correct **details** about the chemical cleaning operations that you are required to carry out;
- 2) get sufficient **instructions or specific information** that could affect chemical cleaning operations;
- 3) have the **authority** to carry out the chemical cleaning operations;
- 4) clarify any details, instructions or specific information that you do not understand.

Knowledge criteria: -

- a) the instructions or specific information you might need to carry out chemical cleaning operations;
- b) how to get more information when you need it;
- c) the authority you need to carry out chemical cleaning operations, why you need it and where you get this authority;
- d) whether you need to have been trained and given authorisation to use specialist chemical cleaning equipment, tools or materials;
- e) why it is important to have been trained and given authorisation to use specialist chemical cleaning equipment, tools or materials

Range statement: -

1. **details** of: location of equipment; type of equipment; access to and availability of equipment; security restrictions; waste disposal requirements; materials required.
2. **instructions or specific information** from: your client; your own organisation's procedures; current legislation.
3. **authority** from: your client; your own organisation e.g. access to sensitive, hazardous or restricted areas.

Element	IND 3.2	Collect equipment and materials required
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Performance criteria: -

- 1) get sufficient details about what **equipment, tools and materials** you might need;
- 2) confirm that equipment, tools and materials are available when you need them;
- 3) confirm that all equipment and tools are operating properly and are safe to use;
- 4) take appropriate action if tools and equipment are not operating properly and are not safe for you to use;
- 5) confirm that you have sufficient materials and that they are stored according to suppliers' instructions and current legislation;
- 6) confirm that any **instructions** for use of equipment, tools or materials are up to date;
- 7) confirm that the instructions provide the information you need where appropriate.

Knowledge criteria: -

- a) the types of equipment, tools and materials you need and from where to get them;
- b) why it is important that you confirm the proper operation of all equipment and tools;
- c) the actions you take if the equipment and tools cannot be used;
- d) the safety requirements for using equipment, tools and materials, including the Health and Safety at Work Act (HASAW) and Control of Substances Hazardous to Health (COSHH) requirements;
- e) where and how to get specialist equipment, tools or materials when you need them;
- f) when and where to get instructions on the use of equipment, tools and materials when you need them.

Range statement: -

- 1. **equipment:** protective clothing; barriers; warning signs as required by your client or your own organisation's procedures
- 2. **tools:** hand tools; power tools; specialist tools
- 3. **materials:** cloths; consumables; cleaning agents.
- 4. **instructions** from: your client; your own organisation; manufacturers

Element IND 3.3 Prepare work areas, equipment and materials for use

Performance criteria: -

- 1) **prepare work area** to carry out industrial chemical cleaning following instructions and correct procedures;
- 2) set up tools for the **chemical cleaning operations** to be carried out, **surfaces** to be cleaned and types of **dirt** to be removed following manufacturers' or suppliers' instructions;
- 3) take action to protect other people from harm in line with guidelines or codes of practice;
- 4) wear **personal protective equipment** appropriate for the chemical cleaning operation.

Knowledge criteria: -

- a) where to get information on how to prepare work areas and the importance of following this information;
- b) how to set up tools for types of chemical cleaning operations, surfaces and dirt to be removed;
- c) what action to take to protect yourself and other people from harm and the consequences of you not doing so;
- d) the personal protective equipment appropriate for the chemical cleaning operation involved, where it can be obtained and why you should use it.

Range statement: -

- 1. **prepare work area:** erect barriers; set up warning signs; prepare drainage systems; erect ladders and similar access equipment; provide ventilation.
- 2. **chemical cleaning operations:** removal of dirt from walls or floors;
- 3. **surfaces:** hard; semi-hard; sensitive; porous; non-porous; metallic
- 4. **dirt:** paint; oil; grease; soil
- 5. **personal protective equipment:** goggles; masks; gloves; footwear; clothing; respiratory protective equipment.

Element IND 3.4 Carry out chemical cleaning operations

Performance criteria: -

- 1) comply with the relevant health and safety guidelines and requirements to ensure the safety of yourself and others;
- 2) carry out the cleaning operations in line with your instructions and the correct procedures;

- 3) use the equipment, tools and materials safely following **instructions** and the correct **procedures**;
- 4) use the equipment, tools and materials effectively to prevent damage to the surfaces;
- 5) take prompt **action** to deal with any accidental **damage** or **incident** caused through chemical cleaning operations;
- 6) take appropriate action if there is a fault with the equipment;
- 7) ensure that you leave all surfaces free of dirt;

Knowledge criteria: -

- a) how to use the appropriate equipment, tools and materials;
- b) the hazards associated with chemical cleaning operations and how you can prevent them;
- c) why it is important to follow the manufacturers ' instructions when you use the equipment, tools and materials and understand the consequences of not doing so;
- d) the action to take if chemical cleaning operations cannot be completed;
- e) what to do if any damage or disruption occurs during chemical cleaning operations;
- f) why it is important to take action if any damage or incident occurs;
- g) what action to take if there is a fault with the equipment.

Range statement: -

1. **instructions and procedures** from: manufacturers; your own organisation; your clients.
2. **action**: raise alarm; prevent further damage; safety shower; eye wash; get help or medical attention.
3. **damage** to: yourself; other people; the work area; equipment.
4. **incident**: leakage; spillage; contamination.

Element	IND 3.5	Complete chemical cleaning operations
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Performance criteria: -

- 1) wear the correct **personal protective equipment** suitable for the **waste** involved;
- 2) make sure that work areas are clear of waste;
- 3) use the correct **containers** for disposing of waste;
- 4) handle and remove the waste safely and according to current legislation, instructions and good practice;
- 5) make sure that waste and containers are taken safely to allocated collection points and made secure where necessary;
- 6) take the correct **action** to deal with damaged or **unserviceable** equipment or tools;
- 7) maintain stocks of consumable materials;
- 8) return the equipment, tools and materials to their correct storage locations and make secure where necessary.

Knowledge criteria: -

- a) the personal protective equipment required for the waste involved;
- b) where to get personal protective equipment and why you should use it;
- c) the hazards associated with typical waste from chemical cleaning operations;
- d) the correct containers for the waste involved;
- e) where the correct containers are located;
- f) why it is important to handle and dispose of the waste safely according to current legislation and instructions;
- g) where to get information on handling and disposing of waste safely;
- h) the allocated collection points for waste containers;
- i) how to secure waste containers and why this is important;
- j) how to identify damaged or unserviceable equipment, tools and materials;
- k) the action to take to deal with damaged and unserviceable equipment;
- l) the appropriate arrangements for maintaining stocks of consumable materials.

Range statement: -

1. **personal protective equipment:** gloves; masks; goggles; coveralls; footwear; respiratory protective equipment.
2. **waste:** paint; oil; grease; soil
3. correct **containers** suitable for waste that is: hazardous; non hazardous.
4. **action:** report details of unserviceable equipment to the relevant person; take equipment to the relevant person; carry out emptying, refilling, servicing or cleaning where authorised.
5. **unserviceable** because: does not operate properly; requires emptying, refilling, servicing or cleaning