

## National Occupational Standards

**Sector:** Building and Construction

**Occupation:** Road Works Assistant Operative

**MQF Level:** 2

**Units:**

- **RWAO201:** Work Area Protection and Safety Equipment
- **RWAO202:** Laying of Precast Elements (Kerbs and Channels)
- **RWAO203:** Concrete Casting and Finishing (Assistant Operative)
- **RWAO204:** Assisting in the Operation of road plant, machinery, or equipment for laying flexible and semi-flexible paving materials

**RWAO201: Work Area Protection and Safety Equipment**

This unit is about installing, maintaining, and removing work area protection and safety equipment; interpreting information; adopting safe, healthy, and environmentally responsible work practices; selecting and using materials, components, tools, and equipment. This standard is for people working in the occupational area of construction and civil engineering operations and can be used by operatives, supervisors, and managers.

**Performance Criteria**

The candidate must have the necessary knowledge and skills to:

1. Interpret and comply with the given contract information to carry out the work efficiently to the required specification.
2. Comply with the relevant legislation and official guidance to carry out work and maintain safe and healthy work practices.
3. Select the required quantity and quality of resources for the methods of work.
4. Comply with organisational procedures to minimise the risk of damage to the work and surrounding area.
5. Comply with the given contract information to carry out the work efficiently to the required specification.
6. Complete the work within the allocated time, in accordance with the programme of work.

**Required Knowledge**

The Road Works Assistant Operative at MQF Level 2 must know and state how to:

1. Apply knowledge of safe and healthy work practices, procedures, and skills relating to the method and area of work and materials used.
2. Plan for the protection and the safety of the work and surrounding environment.
3. Conform to agreed specification.
4. Confirm the location of utility services and ensure they are protected.
5. Prepare and set out area protection equipment to required dimensions.
6. Install, check, and maintain the protection and safety equipment, barriers, and fences.
7. Dismantle and remove protection and safety equipment.
8. Install protection and safety notices.
9. Install safety lighting systems.
10. Monitor and check accuracy during progress and on completion of work.
11. Install, maintain, and remove work area protection equipment in public areas.
12. Transport, load, and off load work area protection equipment.
13. Recognise and determine when specialist skills and knowledge are required and report accordingly.
14. Report work undertaken.
15. Use hand and power tools and other ancillary tools.
16. Work at height.
17. Use access equipment.
18. Protect work against damage from general workplace activities, other occupations, and adverse weather conditions.

**Resources:**

1. Materials: cones, tapes, fences, barriers, hoarding, doors, gates.
2. Components: protection and safety notices.
3. Equipment: signs and safety lighting.

**Required Skills**

The Road Works Assistant Operative at MQF Level 2 must be able to follow instructions to:

1. Work safely: consider the safety of yourself and those around you, challenge unsafe behaviour.
2. Communicate effectively.
3. Demonstrate respect: apply equality, diversity, and inclusion in dealing with others.
4. Work effectively and safely with others with limited supervision.
5. Take responsibility for safe completion of your own work.
6. Show adaptability: be able to adjust to changes to the work instructions, put safety first.

**RWAO202: Laying of Precast Elements (Kerbs and Channels)**

This unit is about interpreting information; adopting safe, healthy, and environmentally responsible work practices; selecting and using materials, components, tools, and equipment; preparing for laying and reinstating preformed (precast and prepared natural stone) kerbs, channels, and combined drainage and kerb systems. This standard is for people working in the occupational area of road building, maintenance and construction, and civil engineering operations, and can be used by operatives, supervisors, and managers.

**Performance Criteria**

The candidate must have the necessary knowledge and skills to:

1. Interpret and comply with the given contract information to carry out the work efficiently to the required specification.
2. Comply with the relevant legislation and official guidance to carry out work and maintain safe and healthy work practices.
3. Select the required quantity and quality of resources for the methods of work.
4. Comply with organisational procedures to minimise the risk of damage to the work and surrounding area.
5. Complete the work within the allocated time, in accordance with the programme of work.

**Required Knowledge**

The Road Works Assistant Operative at MQF Level 2 must know and state how to:

1. Apply knowledge of safe and healthy work practices, procedures, and skills relating to the method and area of work and materials used.
2. Confirm the area and location of work, the operations, safety, and security requirements including temporary traffic management and immediate area protection.
3. Identify different types of kerbs, channels, and combined drainage and kerb systems and confirm to agreed specifications.
4. Set out the area and prepare substrate and foundation for laying kerbs, channels, and combined drainage and kerb systems.
5. Lay and align kerbs, channels and combined drainage and kerb systems to the required specifications.
6. Mark and cut kerbs, channels, and combined drainage and kerb systems.
7. Work around street furniture and ironwork.
8. Protect completed work for curing process.
9. Deal with others affected by the work.
10. Return infrastructure to operational status.
11. Recognise and determine when specialist skills and knowledge are required and report accordingly.
12. Identify by calculation, quantity, length, area, and wastage associated with the method and procedure to lay preformed kerbs, channels and combined drainage and kerb systems.

**Resources:**

1. Materials: sand, cement, aggregates, additives, sealants, and resins.
2. Components: kerbs, channels and combined drainage and kerb systems.
3. Equipment: hand tools, power tools and other ancillary tools.

**Required Skills**

The Road Works Assistant Operative at MQF Level 2 must be able to follow instructions to:

1. Work safely: consider the safety of yourself and those around you, challenge unsafe behaviour.
2. Communicate effectively.
3. Demonstrate respect: apply equality, diversity, and inclusion in dealing with others.
4. Work effectively and safely with others with limited supervision.
5. Think logically: use clear and valid reasoning when making decisions to safely undertake the work instructions.
6. Demonstrate time management: use own time effectively to complete the work instructions to schedule, take the time to be safe.
7. Show adaptability: be able to adjust to changes to the work instructions, put safety first.

**RWAO203: Concrete Casting and Finishing (Assistant Operative)**

This unit is about placing and finishing concrete, including preparing and compacting concrete slabs, footings, and bases; interpreting information; adopting safe, healthy, and environmentally responsible work practices; selecting, preparing, and using materials, components, tools, and associated equipment. This standard is for people working in the occupational area of construction and civil engineering operations and can be used by operatives, supervisors, and managers.

**Performance Criteria**

The candidate must have the necessary knowledge and skills to:

1. Interpret and comply with the given contract information to carry out the work efficiently to the required specification.
2. Comply with the relevant legislation and official guidance to carry out work and maintain safe and healthy work practices.
3. Select the required quantity and quality of resources for the methods of work.
4. Comply with organisational procedures to minimise the risk of damage to the work and surrounding area.
5. Comply with the given contract information to carry out the work efficiently to the required specification.
6. Complete the work within the allocated time, in accordance with the programme of work.

**Required Knowledge**

The Road Works Assistant Operative at MQF Level 2 must know and state how to:

1. Apply knowledge of safe and healthy work practices, procedures and skills relating to the method and area of work and materials used.
2. Assist in handling, placing, compacting, and finishing concrete.
3. Protect concrete while curing.
4. Assist in placing reinforcement.
5. Assist in placing concrete into formwork and shuttering.
6. Assist in forming slab edging including joints and level changes.
7. Work with, around and near plant and machinery.
8. Direct and guide the operations and movement of plant and machinery.
9. Use hand and power tools and other ancillary tools.
10. Work at height.

Resources:

1. Materials: concrete, reinforcement, timber, plywood, proprietary slab edgings and fixings.
2. Components: hand and power tools and other ancillary tools.
3. Equipment: how to confirm resources and materials conform with the method statement and specification 19 methods of calculating quantity, length, area, and wastage of materials associated with the method and procedure to place and finish concrete.

**Required Skills**

The Road Works Assistant Operative at MQF Level 2 must be able to follow instructions to:

1. **Work safely:** consider the safety of yourself and those around you, challenge unsafe behaviour.
2. **Communicate effectively.**
3. **Demonstrate respect:** apply equality, diversity; and inclusion in dealing with others.
4. **Work effectively and safely with others with limited supervision.**
5. **Think logically:** use clear and valid reasoning when making decisions to safely undertake the work instructions.
6. **Demonstrate time management:** use own time effectively to complete the work instructions to schedule, take the time to be safe.
7. **Show adaptability:** be able to adjust to changes to the work instructions, put safety first.

**RWAO204: Assisting in the Operation of road plant, machinery, or equipment  
for laying flexible and semi-flexible paving materials**

This unit is about interpreting information; adopting safe, healthy, and environmentally responsible work practices; selecting and using materials, components, and tools; preparing, setting up, completing pre use checks; and operating plant, machinery, or equipment for preparing, laying, and finishing flexible paving materials. This standard is for people working as part of a team in the occupational area of pavement construction and maintenance and can be used by operatives, technicians, supervisors, and managers.

**Performance Criteria**

The candidate must have the necessary knowledge and skills to:

1. Interpret the given information relating to the work and resources to confirm its relevance.
2. Comply with the given, relevant legislation and official guidance to carry out work and maintain safe and healthy work practices.
3. Select the required quantity and quality of resources for the methods of work.
4. Comply with organisational procedures to minimise the risk of damage to the work and surrounding area.
5. Comply with the given contract information to carry out the work efficiently to the required specification.
6. Complete the work within the allocated time, in accordance with the programme of work.

**Required Knowledge**

The Road Works Assistant Operative at MQF Level 2 must know and state how to:

1. Apply knowledge of safe and healthy work practices, procedures, and skills relating to the method and area of work and materials used.
2. Assist in confirming the area and location of work, the operations, safety, and security requirements, including temporary traffic management and immediate area protection.
3. Assist in preparing and installing mesh reinforcement membrane.
4. Assist in preparing, setting up, and carrying out pre-start and running checks of the plant, machinery, and accessories.
5. Assist in the workability of flexible and semi-flexible paving materials throughout the process.
6. Recognize defects and poor performance that will affect the finished product and report to his superiors.
7. Assist in carrying out and control operations for the required performance of plant, machinery, and equipment.
8. Assist in adjusting the work in relation to prevailing weather conditions.
9. Work around street furniture and ironwork.
10. Recognise the duties of other operatives, including the paver screw man, paver operator, roller operator, chipping machine operator, loader compressor operator, 180-degree machine operator, spray tanker operator, and geosynthetic installation equipment operator or spray injection operator, to ensure cohesive operations.
11. Return infrastructure to operational status.
12. Recognise and determine when specialist skills and knowledge are required and report



accordingly.

13. Shut down and secure plant, machinery, and equipment.
14. Use hand and power tools and other ancillary tools.

Resources:

1. Materials: consumables, lubricants, and fuels.
2. Components: attachments and flexible paving materials.
3. Equipment: hand and power tools and other ancillary tools.

#### **Required Skills**

The Road Works Assistant Operative at MQF Level 2 must be able to follow instructions to:

1. Work safely: consider the safety of yourself and those around you, challenge unsafe behaviour.
2. Communicate effectively.
3. Demonstrate respect: apply equality, diversity, and inclusion in dealing with others.
4. Work effectively and safely with others with limited supervision.
5. Think logically: use clear and valid reasoning when making decisions to safely undertake the work instructions.
6. Work effectively: undertake the work in a reliable, safe, and productive manner.
7. Demonstrate time management: use own time effectively to complete the work instructions to schedule, take the time to be safe.
8. Show adaptability: be able to adjust to changes to the work instructions, put safety first.