

# COSVR716 - SQA Unit Code F3DS 04

## Plan highways maintenance or repair activities



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### Overview

This standard is about

- 1 implementing highways maintenance or repair requirements
- 2 prioritising maintenance or repair activities
- 3 identifying and scheduling further maintenance and repair requirements with decision-makers

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### Performance criteria

- You must be able to:*
- P1 confirm the work requirements
  - P2 identify and review influencing factors and guidance material about the work environment
  - P3 prioritise maintenance activities by assessing and accounting for all the influencing factors
  - P4 amend priorities to take account of changing circumstances whilst maintaining consistency with the influencing factors
  - P5 prepare plans or schedules of maintenance activities and negotiate and agree them with decision makers

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### Knowledge and understanding

*You need to know and understand:*

#### Performance Criteria 1

##### Confirm work requirements

- K1 how to confirm work requirements for **highways** and its **maintenance** or **repair**
- K2 who to consult to confirm work requirements

#### Performance Criteria 2

##### Identify and review influencing factors and guidance materials

*You need to know and understand:*

- K3 how to identify and review **influencing factors**
- K4 how to identify and review **guidance materials**

#### Performance Criteria 3

##### Prioritise maintenance activities

*You need to know and understand:*

- K5 how to assess and account for **influencing factors**
- K6 how to prioritise **maintenance activities**

#### Performance Criteria 4

##### Amend priorities for changing circumstances

*You need to know and understand:*

- K7 how to account for **changing circumstances**
- K8 how to amend priorities when reviewing **influencing factors**

#### Performance Criteria 5

##### Prepare plans or schedules

*You need to know and understand:*

- K9 how to prepare plans or schedules for **maintenance activities**
- K10 how to negotiate and agree plans and schedules with decision-makers

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### Additional Information

#### Scope/range related to performance criteria

#### Performance Criteria 1

- 1 records of confirming at least two of the following maintenance activities and at least five of the following repair activities on at least one of the following highways
  - 1.1 maintenance activities: scheduled and preventative; unscheduled and corrective; emergency
  - 1.2 repair activities: structure; surface; materials; markings; fittings; power and light; drainage; telecommunications; special services and equipment; landscaping; traffic controls; fencing
  - 1.3 highways: dual carriageway; single carriageway; carriageway with footway; motorway; cycle way; carriageway with hard shoulder

#### Performance Criteria 2

- 2 records of consideration for at least three of the following influencing factors
  - 2.1 organisational requirements
  - 2.2 contractual requirements
  - 2.3 statutory requirements
  - 2.4 resource allocation
  - 2.5 working requirements
  - 2.6 environmental considerations
  - 2.7 weather conditions
- 3 records of consultation of at least two of the following guidance materials
  - 3.1 owner's manuals
  - 3.2 log books
  - 3.3 maintenance schedules and manuals
  - 3.4 practice guides and specifications
  - 3.5 current legislation and official guidance

#### Performance Criteria 3

- 4 records of prioritising activities with consideration for influencing factors

#### Performance Criteria 4

- 5 records of amended priorities, taking account of at least four of the following changing circumstances
  - 5.1 susceptibility to damage
  - 5.2 safety requirements
  - 5.3 need to inhibit, and respond to deterioration
  - 5.4 compromised operational effectiveness
  - 5.5 weather conditions
  - 5.6 use or change of use
  - 5.7 current legislation
  - 5.8 resources
  - 5.9 security threats

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### **Performance Criteria 5**

- 6 records of plans or schedules for at least three of the following maintenance activities
  - 6.1 regular programmes
  - 6.2 tendered works
  - 6.3 responsive works
  - 6.4 cost estimated works
  - 6.5 winter maintenance
  - 6.6 traffic maintenance (signing, lighting and guarding)

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### Scope/range related to knowledge and understanding

#### Changing circumstances

- 1 susceptibility to damage
- 2 safety requirements
- 3 need to inhibit and respond to deterioration
- 4 compromised operational effectiveness
- 5 weather conditions
- 6 use or change of use
- 7 current legislation
- 8 resources
- 9 security threats

#### Guidance materials

- 10 owner's manuals
- 11 log books
- 12 maintenance schedules and manuals
- 13 practice guides and specifications
- 14 current legislation and official guidance

#### highways

- 15 dual carriageway
- 16 single carriageway
- 17 carriageway with footway
- 18 motorway
- 19 cycle way
- 20 carriageway with hard shoulder

#### Influencing factors

- 22 organisational requirements
- 22 contractual requirements
- 23 statutory requirements
- 24 resource allocation
- 25 working requirements
- 26 environmental considerations
- 27 weather conditions

#### Maintenance

- 28 scheduled and preventative
- 29 unscheduled and corrective
- 30 emergency

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<b>Developed by</b>	ConstructionSkills
<b>Version number</b>	1
<b>Date approved</b>	October 2007
<b>Indicative review date</b>	July 2015
<b>Validity</b>	Current
<b>Status</b>	Original
<b>Originating organisation</b>	ConstructionSkills
<b>Original URN</b>	VR716
<b>Relevant occupations</b>	Construction and Building Trades Supervisors
<b>Suite</b>	Construction Site Supervision; Construction Site Management
<b>Key words</b>	Highways; Maintenance; Repair; Plan; Prioritise; Scheduled; Preventative; Unscheduled; Corrective; Emergency; Dual; Carriageway; Footway; Motorway; Traffic