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### Overview

This standard is about identifying areas that are at potential risk of flooding. This could be done by using maps, survey data, historical data and by working with other organisations. The causes of flooding could be ground, fluvial or pluvial.

The standard will also cover the creation of flood hazard maps and flood risk maps which will identify the potential size of the flood area and consequences of flooding on humans, the local economy and the environment.

This standard is designed for employees or volunteers who need to identify areas that are potentially at risk of flooding. It applies to work carried out on rivers, coasts and waterways.

You must carry out your work in a way which will minimise any impact on the natural environment and enhance its nature, conservation and recreational value.

### Performance criteria

#### You must be able to:

- P1 read and interpret maps and graphs to identify areas at risk of flooding
- P2 create maps of flood risk areas
- P3 create maps of flood hazard areas
- P4 identify different sources of potential flooding
- P5 assess the impact on the environment from flooding
- P6 assess the impact on humans and the economy from flooding
- P7 assess the likely extent of flooding
- P8 assess the likely causes of flooding
- P9 evaluate the risks of flooding
- P10 work with other organisations to identify specific risks

### Knowledge and understanding

#### You need to know and understand:

- K1 drainage systems and capacity
- K2 sustainable drainage systems and their uses
- K3 how to interpret maps and graphs in identifying areas at risk of flooding
- K4 how to map flood hazards including extent, depth, direction and speed
- K5 how to map flood risk in relation to human, economic and environmental impact
- K6 how to use historical data and surveys in identifying areas at risk of flooding
- K7 the local river basin management plan
- K8 how to evaluate risks in terms of flooding
- K9 likely sources and causes of flooding
- K10 types of flood defences and controls and the appropriate use of them
- K11 the importance of working with other organisations

### Scope/range related to knowledge and understanding

Types of sources and causes of flooding:

- 1 sea
- 2 main rivers
- 3 reservoirs
- 4 fluvial
- 5 pluvial
- 6 groundwork

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### Glossary

Fluvial: the inability of natural water courses to cope with excessive rainfall

Pluvial: direct runoff over land causing local flooding in areas not previously associated with natural or man-made water courses

Groundwater: water which is below the surface of the ground and in direct contact with the ground or subsoil

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Developed by	Lantra
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Relevant occupations	Environmental Management Officer; Property Manager
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Suite	Environmental Conservation
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