

# EUSLDC11

## Evaluate data to identify potential leakage



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### Overview

This unit is designed to demonstrate competence in obtaining and analysing data from control and monitoring activities to identify areas of potential leakage.

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### Performance criteria

*You must be able to:*

#### **Analyse data**

- P1 obtain all of the data from specified control and monitoring activities
- P2 combine data from more than one source and from more than one point on the distribution system to provide a comprehensive picture of flow and pressure in the specified area
- P3 analyse and assess the data received against the pattern of data you would expect in the specified area
- P4 establish the type and nature of the differences which appear in the data analysis
- P5 report details of the need for further investigation in accordance with approved procedures and practices where you are unable to analyse the data to provide a viable explanation of identified differences
- P6 formulate conclusions about the way the distribution system is operating based on accurate analysis and interpretation of data

*You must be able to:*

#### **Identify areas of potential leakage**

- P7 base conclusions about the operation of the distribution system on thorough and reliable analysis and interpretation of data from control and monitoring activities
- P8 highlight and draw attention to any area which appears to be exhibiting leakage problems
- P9 estimate the water loss from the specified area according to data analysis and conclusions reached
- P10 document area characteristics and detail, and water loss calculations, in an appropriate format in accordance with approved procedures and practices
- P11 ensure judgements take into account any relevant additional information

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### Knowledge and understanding

*You need to know and understand:*

#### **Analyse data**

- K1 the purpose of control and monitoring activities
- K2 the consequences of incorrectly performing control and monitoring activities
- K3 how to interpret data from different control and monitoring activities
- K4 factors which affect network performance
- K5 how to read and interpret flow and pressure information
- K6 why you may be unable to effectively analyse data
- K7 reporting procedures including the use of feedback from previous investigations

*You need to know and understand:*

#### **Identify areas of potential leakage**

- K8 how to interpret data
- K9 types of leakage problems and ways they manifest themselves on the network
- K10 how to relate analysed data to network plans
- K11 recording and reporting requirements
- K12 the factors to be taken into account when making a judgement about leakage problems

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### **Additional Information**

#### **Glossary**

#### **Additional information**

Network condition, network operations and consumption variations

#### **Approved procedures and practices**

Regulatory, Health, Safety and Environment, relevant company procedures, emergency

#### **Data**

Flow and pressure, historic, from fixed installations, from temporary installations, results from previous investigations

#### **Further investigation**

Equipment performance, area characteristics

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**Relevant occupations** Engineering; Building and construction; Process Operatives

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**Suite** Leakage Detection & Control

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