

**ANNEX A: MAPPING EXERCISE**

| <b>KNOWLEDGE</b>                                                                                                                                                                                                    | <b>PT</b> | <b>PD</b> |
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| The planning process for demolition operations, utilising standards, the role of Building Information Modelling and Computer Aided Design                                                                           |           | X         |
| What is covered in a refurbishment and demolition survey, why it is intrusive and the importance of destructive inspection                                                                                          |           | X         |
| The decommissioning of services to structures and the requirement to render safe prior to any work being carried out                                                                                                |           | X         |
| The approach and methods of demolition manually by hand or mechanical, including soft strip, wall, floor, roofing & façade retention                                                                                |           | X         |
| The different types of hand and power tools used for carrying out demolition operations, when to use and the limitations of use                                                                                     | X         |           |
| The hazards associated with hand and power tools, safe working procedures to be applied for storage, use and replacement                                                                                            |           | X         |
| The remote-controlled demolition equipment available to the demolition operative, advantages and limitations of use                                                                                                 | X         |           |
| The structural elements of buildings including – beams, lintels, columns, trusses, roofing components and modern building materials                                                                                 |           | X         |
| The characteristics and different types of building and structure, traditional brick, reinforced concrete, industrial units and plants, power stations, bridges and complex structures and pre/post tensioned steel |           | X         |
| The hazards associated with cutting equipment and the safe working procedures to be applied for storage, use and replacement                                                                                        |           | X         |
| What cutting fuels and equipment are available to the demolition operative and the circumstances in which they would be used                                                                                        |           | X         |
| The methods of cutting and effects on materials, metals and stability when pre-weakening structures                                                                                                                 |           | X         |
| Health, safety & environmental legislation relevant to demolition operations, official guidance and codes of practice                                                                                               | X         | X         |

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| The dangers, hazards and importance of safe working in confined spaces, at height, below ground and in close proximity to other operations and working on contaminated ground                             |   | X |
| How and why safe systems of work are established along with the permits and authorisation to carry out the work                                                                                           |   | X |
| Occupational health as a result of exposure to manual handling, noise, dust and vibration including the effects on hearing, lung related diseases and other injuries to the body both mental and physical |   | X |
| The control of substances hazardous to health, how to protect the environment and the importance of segregating and recycling                                                                             |   | X |
| The duties and responsibilities of a slinger signaller and the importance of safety around lifting operations                                                                                             |   | X |
| How to read the 'The lift plan' and identify correct lifting accessories for the load type and how the load should be slung                                                                               | X |   |
| How different types of demolition plant equipment are utilised along with the hazards and importance of exclusion zones and segregation                                                                   |   | X |
| The role of the Demolition Operative and limitations on works to be carried out                                                                                                                           |   | X |
| The structure of a demolition team and the appointments within – Topman, Supervisor, Manager                                                                                                              |   | X |
| Associations and institutes representing the industry                                                                                                                                                     |   | X |
| <b>SKILLS</b>                                                                                                                                                                                             |   |   |
| Carry out point of work risk assessments                                                                                                                                                                  | X |   |
| Identify and report hazards, unsafe conditions and uncontrolled demolition operations                                                                                                                     | X | X |
| Follow and apply the safe systems of work, permits and seek authorisation including the discovery of hazardous materials                                                                                  | X | X |
| Identify when an area is or potentially becomes a confined space and carry out the necessary confined space precautions                                                                                   |   | X |
| Wear the correct Personal Protective Equipment for the demolition operations to be carried out, inspect and store when not in use                                                                         | X |   |

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| Work safely in varying conditions around the site including at height, in close proximity to other operations, contaminated ground, plant and lifting equipment | X |   |
| Limitations and when to hand the work over to the Demolition Topman                                                                                             |   | X |
| Identify different materials and components of a structure                                                                                                      | X | X |
| Calculate and quantify materials for removal from site                                                                                                          |   | X |
| Apply the safest and most appropriate process to the demolition task                                                                                            | X |   |
| Recognise when the task is not going to the plan and when to stop and seek advice or hand over to the Topman                                                    |   | X |
| Select the correct tool, carry out pre-use checks and identify any faults with hand and power tools and remote-controlled demolition equipment                  | X |   |
| Report defects and dispose of faulty tools and equipment following the correct procedure                                                                        |   | X |
| Demonstrate how to use hand and power tools safely along with remote controlled equipment for the demolition task to be completed                               | X |   |
| Leave tools and equipment in a safe state and store in the appropriate location on completion                                                                   | X |   |
| Select and identify the correct type of cutting equipment associated with the work to be completed                                                              | X |   |
| Set up equipment and carry out daily per use checks, identify faults, report any defects and condemn unsuitable and faulty equipment                            | X | X |
| Apply different types of cut in relation to varying situations, material types and thickness relating to non-structural steel beams at ground level             | X |   |
| Carry out all work safely in line with legislation and official guidance                                                                                        | X |   |
| Read and follow a lift plan and demonstrate how to complete the work exactly to the detail                                                                      | X | X |
| Select the correct accessories for the load to be lifted                                                                                                        | X |   |

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| Utilise various types of lifting accessory to sling and lift loads                                                                                                       | X |   |
| Guide demolition plant to carry out operations using a range of communication methods                                                                                    | X |   |
| Communicate clearly with all internal and external personnel using the correct terminology                                                                               | X | X |
| Use a range of communication methods including radios and hand signals                                                                                                   | X |   |
| Demonstrate a strong ability to work as part of a team working cooperatively with others                                                                                 |   | X |
| Provide support to other team members as required                                                                                                                        |   | X |
| Demonstrate a clear understanding of your role and limitations                                                                                                           |   | X |
| Undertake all tasks responsibly and apply safe working practices                                                                                                         | X |   |
| <b>BEHAVIOURS</b>                                                                                                                                                        |   |   |
| Promote a positive safety culture                                                                                                                                        |   | X |
| Develop a questioning attitude to challenge procedures not being followed                                                                                                |   | X |
| Apply equality, diversity and inclusion in dealing with others                                                                                                           |   | X |
| Be polite & courteous to peers, managers, clients and members of the public or anyone they come in contact with                                                          |   | X |
| Take all reasonable care of themselves and others that may be affected by their actions                                                                                  | X | X |
| Adopt a professional approach to the work, colleagues and client                                                                                                         |   | X |
| Be aware of the importance of following procedures and following guidance of senior members of team due to the many risks and hazards present in the working environment | X | X |
| Show professionalism when following safe systems of work and avoiding taking shortcuts that might increase risk                                                          | X |   |
| Display adaptability to work effectively as a team and under supervision                                                                                                 |   | X |