

Level 3 Advanced Technical Diploma in Painting and Decorating (7907-30)

Version 1.0

Practice Tasks

Level 3 Advanced Technical Diploma in Painting and Decorating [7907-30]

Introduction

General information about structure of the practice tasks

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Practice Tasks 7907-30

General guidance

This is a formative assessment that you will complete. You will be observed and feedback will be given. You will be marked on the quality and accuracy of your practical performance and any written work you produce. It is therefore important that you carry your work out to the highest standard you can. You should show how well you know and understand the subject and how you are able to use your knowledge and skills together to complete the tasks.

Health and Safety

You must always work safely, in particular while you are carrying out practical tasks.

You must always follow any relevant Health and Safety regulations and codes of practice.

If your tutor sees you working in a way that is unsafe for yourself or others, they will ask you to stop immediately, and tell you why. Your tutor will not be able to reassess you until they are sure you are ready to work safely.

Presentation of work

Presentation of work must be neat and appropriate to the task.

You should make sure that each piece of work is clearly labelled with your name and the task title. Any electronic files must be given a clear file name that allows your tutor to identify them as your work.



Completion of tasks

You will be required to read the job details and use the candidate instructions for each practice task to produce the end product. You will be required to answer three multiple choice questions related to the tasks.

Your completed piece of work will be marked against the standards set out in the candidate instructions table within each practice task. Your tutor/assessor will mark the multiple choice questions and give you feedback.

Your tutor/assessor will provide constructive feedback, highlighting areas of both good practice and areas requiring development.

Your performance will be observed throughout the task, and any help or guidance provided by your tutor/assessor or peers will be taken into consideration on the marking of your completed work.



Tasks

Task 1Erect and dismantle access equipment and working platforms

Candidate name	
Date	

Job details: You will safely erect and dismantle a scaffold tower as part of a team. See Figure 1.

You must select tools, equipment & materials and PPE to enable you to safely erect and dismantle a scaffold tower as per the manufacturer's instructions and in a safe way.

Assessment methods: This task will test your skills in working in a team, planning, spotting hazards, working safely, reading and interpreting manufacturer's instructions in relation to access equipment and working platforms.

- Select tools, equipment and PPE
- Carry out component safety checks
- Interpret the instructions in order to erect and dismantle the tower scaffold
- Store all components

No	Candidate instructions		ieved	
		Yes	No	
1	Select correct PPE			
2	Carry out component safety checks			
3	Assemble tower with all components in place and connected correctly			
4	Check that tower is stable and plumb			
5	Dismantle tower in the correct sequence			
6	Store all components safely			
7	Communicate effectively with teammates throughout the task			
8	Work safely at all times			
9	Housekeeping			
	Leave work area clean and tidy			
	Clean and store away materials correctly (if applicable)			
	• Dispose of waste correctly (if applicable).			





Figure 1

Static or mobile scaffold tower.

Height to centre's discresion but two lifts recommended, 3 m minimum.



- 1) What year did the current Working at Height Regulation come into force?
 - a) 1974
 - b) 1992
 - c) 2005
 - d) 2012
- 2) What is the minimum height from a working platform to the top of the toe board?
 - a) 100 mm
 - b) 150 mm
 - c) 200 mm
 - d) 250 mm
- 3) What three items of PPE must be worn at all times whilst working on a tower scaffold?
 - a) Hi-vis, overalls, hard hat.
 - b) Safety boots, goggles, hi-vis.
 - c) Hard hat, hi-vis, safety boots.
 - d) Overalls, hard hat ear defenders.



Task title:	
Candidate feedback	
Assessor feedback	
Action plan	
Action plan	



Task 2Applying hangings to walls and ceilings

Candidate name	
Date	

Job details: You will create a plan and then hang an embossed paper to a chimney breast and alcoves. See Figure 1.

Assessment methods: This task will test your skills in planning, measuring, calculating quantities, selecting equipment, working to a plan and hanging paper in relation to applying hangings to walls and ceilings.

- Accurately measure area
- Create drawing of area
- Plan starting and finishing points
- Calculate wall covering required
- Select tools, equipment, materials and PPE
- Work to the plan that has been set out
- Hang embossed paper

No	Candidate Instructions	Achi	ieved
		Yes	No
1	Accurately measure area to be papered		
2	Create an accurate drawing		
3	Plan suitable start and finishing points, considering:		
	Pattern balancing		
	Joint alignment		
	Focal point		
4	Accurately calculate amount of wall covering required		
5	Select correct equipment and PPE		
6	Select suitable paste		
7	Work to the plan accurately		
8	Hang embossed paper to a high standard:		
	butted joints		
	accurate matching		
	no flattening of emboss		
	accurate cutting		
9	Work safely at all times		
10	Housekeeping		
	Leave work area clean and tidy		
	Clean and store away materials correctly (if applicable)		
	• Dispose of waste correctly (if applicable).		



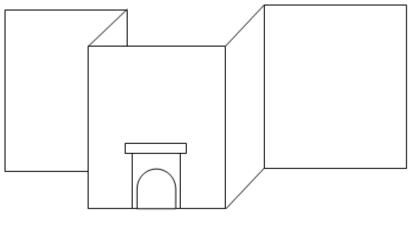


Figure 1

Chimney breast with reveals and alcoves to each side. Height and widths to centre's discresion but a suggested 2 rolls minimum.



- 1) What area is covered by a standard roll of wall paper?
 - a) 5 m²
 - b) 5.25 m²
 - c) 5.50 m^2
 - d) 5.75 m²
- 2) When planning to paper a ceiling in a standard square room, in which direction **must** work be carried out?
 - a) Towards the window wall.
 - b) From the middle outwards.
 - c) Away from the window wall.
 - d) Across at 90° to the window wall.
- 3) When planning to paper a staircase, where should the **first** drop be placed?
 - a) The longest length.
 - b) The shortest length.
 - c) At the top of the stairs.
 - d) At the bottom of the stairs.



Task title:		
Candidate feedback		
Assessor feedback		
Astion alon		
Action plan		



Task 3Produce specialist finishes for painted decorative work

Candidate name	
Date	

Job details: You will produce a wall panel of faux Vert de mer and Sienna marbles. See Figure 1.

Assessment methods: This task will test your knowledge of decorative effects and your skills in preparing, measuring, marking out, applying paint and reproducing effect in relation to producing specialist finishes.

- Select tools, equipment and materials
- Prepare surface
- Mark out design
- Apply ground coats
- Produce a Vert de mer marble effect
- Produce a Sienna marble effect

No	Candidate Instructions	Achie	eved	
		Yes	No	
1	Select appropriate tools			
2	Select appropriate materials			
3	Prepare surface to a smooth finish			
4	Accurately mark out design			
5	Apply ground coats to a high standard, smooth and defect free finish			
6	Produce decorative effects to a true representation:			
	Vert de mer			
	• Sienna			
7	Work safely at all times			
8	Housekeeping			
	Leave work area clean and tidy			
	Clean and store away materials correctly (if applicable)			
	Dispose of waste correctly (if applicable).			



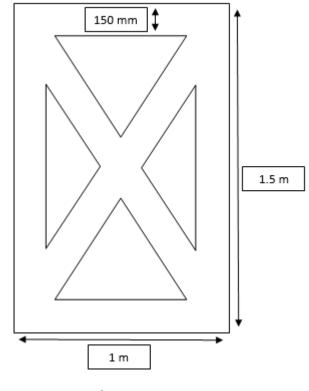


Figure 1

The triangles are to be a black eggshell finish. The surrounds are to be a light buff eggshell finish.



- 1) What paint defect is prevented by the use of fuller earth?
 - a) Sinking.
 - b) Cissing.
 - c) Ropiness.
 - d) Bittiness.
- 2) What is achieved from using linseed oil in an oil glaze?
 - a) A longer working time.
 - b) A more opaque finish.
 - c) A quicker drying time.
 - d) A more translucent finish.
- 3) What kind of feather is traditionally used to create veins in marble?
 - a) Duck.
 - b) Swan.
 - c) Goose.
 - d) Pheasant.



Task title:			
Candidate feedback			
Assessor feedback			
Action plan			



Task 4Installation of centre-piece

Candidate name	
Date	

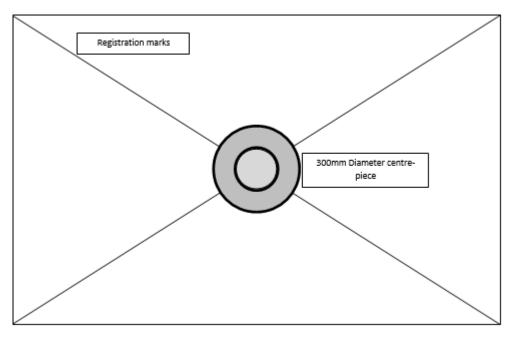
Job details: You will accurately mark out the centre of the ceiling and create registration marks then install a centre-piece. See Figure 1.

Assessment methods: This task will test your setting out, marking out, measuring and fixing skills in relation to architectural finishes.

- Select appropriate access equipment
- Determine centre of the ceiling
- Set out/mark out registration marks
- Select tools, equipment and materials
- Correctly mix adhesives to manufacturer's instructions
- Fix centre-piece to ceiling

No	Candidate Instructions		
		Yes	No
1	Select and use appropriate access equipment		1
2	Mark out centre of ceiling and create registration marks accurately		1
3	Select a centre piece and a suitable adhesive		
4	Select suitable fixing, considering ceiling construction, location of rafters and weight of centre-piece		
5	Dry locate centre-piece, transfer registration and fix marks		
6	Pre-drill for fixings and electrical wires (if present)		
7	Apply adhesive and locate fixings using the registration marks		
8	Fix the centre-piece securely to the ceiling		1
9	Fill any holes left by the fixings		1
10	Work safely at all times		
11	Housekeeping		
	Leave work area clean and tidy		
	Clean and store away materials correctly (if applicable)		
	• Dispose of waste correctly (if applicable).		







Plan of ceiling with centre-piece.

Dimention of ceiling to centre disgrestion.

300 mm minimum diameter (or as per centre availability).



- 1) What is the **most** suitable fixing for a large fibrous plaster centre-piece?
 - a) Copper nail.
 - b) Galvanised staple.
 - c) Steel screw.
 - d) Brass screw.
- 2) What is the **most** important consideration when fixing fibrous pieces?
 - a) Shape.
 - b) Design.
 - c) Weight.
 - d) Colour.
- 3) What **must** be checked first before commencing the installation of a centre-piece around a light fitting?
 - a) Isolation of the power supply.
 - b) Fixing holes are drilled.
 - c) Size of the centre piece.
 - d) Composition of the centre piece.



Task title:		
Candidate feedback		
Assessor feedback		
Action plan		



Task 5Installation of cove or cornice

Candidate name	
Date	

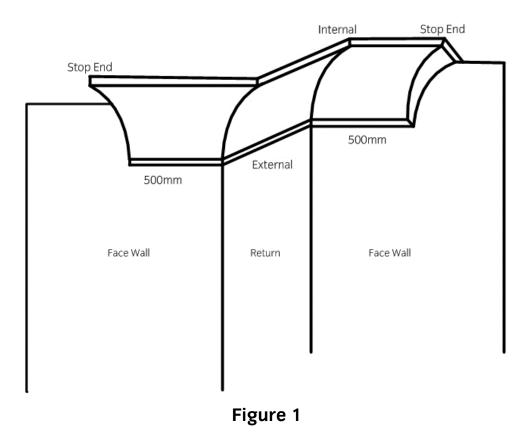
Job details: You will mark out, measure and cut coving to create internal and external corners with finishing stop ends. See Figure 1.

Assessment methods: This task will test your setting out, marking out, measuring, cutting and fixing skills in relation to architectural finishes.

- Determine starting point
- Select tools, equipment and materials
- Set out/mark out
- Accurately measure and cut cove
- Correctly mix adhesives to manufacturer's instructions
- Fix coving/cornice to ceiling/walls

No	o Candidate Instructions		ieved
		Yes	No
1	Select appropriate access equipment		
2	Accurately calculate the amount of cove required		
3	Mark out and snap lines to ensure accurate positioning		
4	Score ceiling and wall to assist adhesion		
5	Apply thinned PVA to equalise porosity		
6	Accurately cut suitable mitres		
7	Select, mix and apply adhesive to cove		
8	Fix the cove securely to the ceiling, supporting as necessary		
9	Fill any holes left by the support fixings		
10	Work safely at all times		1
11	Housekeeping		
	Leave work area clean and tidy		
	• Clean and store away materials correctly (if applicable)		
	Dispose of waste correctly (if applicable).		





Plan of cove layout, one external corner, one internal corner, two stop ends. Linier length of cove to centre disgrestion, minimum of 500mm for face walls. Cove or cornice as per centre availability .



- 1) What is the **most** suitable adhesive for Gyproc cove?
 - a) PVA.
 - b) Epoxy resin.
 - c) Tube grab adhesive.
 - d) Gypsum-based powder adhesive.
- 2) What will scratching the contact wall surface help improve?
 - a) Accuracy.
 - b) Adhesion.
 - c) Drying times.
 - d) Porosity.
- 3) What type of saw is **most** suitable for mitring coving?
 - a) Fine tooth.
 - b) Wide tooth.
 - c) Coping.
 - d) Fret.



Task title:			
Candidate fe	edback		
Assessor fee	dback		
Action plan			
1			



Task 6 Apply water-borne paint systems using high volume low pressure (HVLP) spray equipment

Candidate name	
Date	

Job details: You will select and prepare the equipment and materials required to apply emulsion with HVLP spray equipment. See Figure 1, 2 and 3.

Assessment methods: This task will test your knowledge of the equipment and procedures, as well as your ability to interpret and follow manufacturer's instructions in relation to application of water-borne paint using HVLP spray equipment.

- Select RPE
- Select tools and materials
- Preparation of spray equipment
- Preparation of materials

No	Candidate Instructions		
		Yes	No
1	Select suitable RPE		
2	Select suitable fluid tip and needle size		
3	Paint viscosity adjusted using Viscometer or Ratio stick		
4	All connections made; • Air hose • Gun • Paint cup Work safely at all times		
6	 Work safely at all times Housekeeping Leave work area clean and tidy Clean and store away materials correctly (if applicable) Dispose of waste correctly (if applicable). 		





Figure 1 – HVLP spray equipment



Figure 2 - RPE



Figure 3 – Ford viscosity cup



- 1) Which part of the spray equipment must be matched to the fluid tip?
 - a) Horn.
 - b) Needle.
 - c) Trigger.
 - d) Turbine.
- 2) What can be adjusted by using the Air Cap?
 - a) Flow rate.
 - b) Atomisation.
 - c) Paint viscosity.
 - d) Spray pattern direction.
- 3) What type of spray gun is shown in the image below?
 - a) Gravity feed.
 - b) Suction feed.
 - c) Pressure feed.
 - d) Atmospheric feed.





Task title:		
Candidate feedback		
Assessor feedback		
Action plan		



Task 7Apply water-borne paint systems using high volume low pressure (HVLP) sprayequipment

Candidate name	
Date	

Job details: You will prepare a surface, mask up the surrounding surfaces and apply emulsion with HVLP spray equipment. See Figure 1.

Assessment methods: This task will test your preparation methods, masking up skill, as well as your application technique and gun control in relation to application of water-borne paint using HVLP spray equipment.

- Select tools and materials
- Preparation of surface
- Masking of surrounding area
- Correctly applied paint system

No	Candidate Instructions		ieved
		Yes	No
1	Adequately prepared surface, no visible holes, bits and nibs		
2	Fully masked up surrounding surfaces, protected from any overspray		
3	Correct application technique Gun distance from surface Trigger control Overlapping strokes Consistent speed of application Parallel movement, no arcing Application free from defects		
4 5			
6	 Work safely at all times Housekeeping Leave work area clean and tidy Clean and store away materials correctly (if applicable) Dispose of waste correctly (if applicable). 		



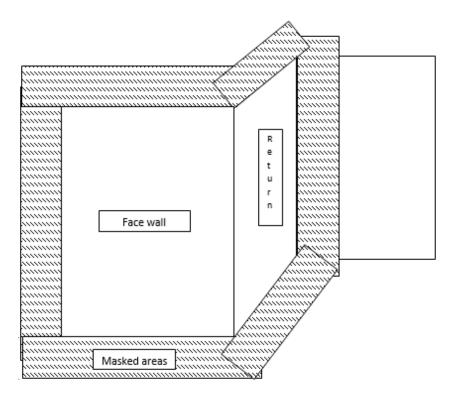


Figure 1

Plan of masked up wall layout with one external corner. Chimney breast and return suggested, 3.5 m² area minimum. Emulsion type as per centre availability.



- 1) HVLP spray equipment is **not** suitable for which type of paint?
 - a) Gloss.
 - b) Emulsion.
 - c) Stain block.
 - d) Preservatives.
- 2) 'Arcing' will result in which coating defect?
 - a) Crazing.
 - b) Fluttering.
 - c) Surface pitting.
 - d) Uneven film thickness.
- 3) What is an important action to **always** take when storing a masking machine?
 - a) Cover the blade.
 - b) Protect from damp.
 - c) Contain in original packaging.
 - d) Store out of direct sunlight.



	••••
Task title:	
Candidate feedback	
Assessor feedback	
Action plan	



Task 8Apply water-borne paint systems using airless spray equipment

Candidate name	
Date	

Job details: You will select and prepare the equipment and materials required to apply emulsion with airless spray equipment. See Figure 1 and 2.

Assessment methods: This task will test your knowledge of the equipment and procedures. Also it will test your ability to interpret and follow manufacturer's instructions in relation to application of water-borne paint.

- Select RPE and PPE
- Select tools, equipment and materials
- Prepare spray equipment
- Prepare materials

NO	Instructions	Achi	eved
		Yes	No
1	Select suitable RPE and PPE		
2	Select suitable fluid tip		
3	Paint viscosity adjusted using viscometer or ratio stick		
4	Make connections, considering: prime tube suction tube gun tip and safety guard 		
5	Prime system as per manufacturer's instructions		
6	Work safely at all times		
7	 Housekeeping Leave work area clean and tidy Clean and store away materials correctly (if applicable) Dispose of waste correctly (if applicable). 		

City 🎥 Guilds



Figure 1 – Airless spray equipment



Figure 2 – RPE/PPE



- 1) What material is used to make fluid tips?
 - a) Brass.
 - b) Aluminium.
 - c) Stainless steel.
 - d) Tungsten carbide.
- 2) What is an advantage of using a 'whip-end'?
 - a) Increase flow rate.
 - b) Assist atomisation.
 - c) Give flexibility to the fluid line.
 - d) Increase pressure at the fluid tip.
- 3) What will using a pole gun help with?
 - a) Spraying a ceiling.
 - b) Spraying round surfaces.
 - c) Reducing masking.
 - d) Reducing pressure.



Task title:	
Candidate feedback	
Assessor feedback	
Action plan	



Task 9Apply water-borne paint systems using airless spray equipment

Candidate name	
Date	

Job details: You will prepare a surface, mask up the surrounding surfaces and apply emulsion with airless spray equipment. See Figure 1.

Assessment methods: This task will test your preparing and masking up skill as well as your application technique and gun control in relation to application of water-borne paint.

Scope of content

- Select tools and materials
- Prepare surface
- Mask up surrounding area
- Correctly apply paint system

No	Candidate instructions	Achie	eved
		Yes	No
1	Adequately prepare surface with no visible holes, bits and nibs		
2	Fully mask up surrounding surfaces, protecting them from any overspray		
3	Correctly apply, considering:		
	gun distance from surface		
	trigger control		
	overlapping strokes		
	consistent speed of application		
	• parallel movement, no arcing		
4	Work safely at all times		
5	Housekeeping		
	Leave work area clean and tidy		
	Clean and store away materials correctly (if applicable)		
	• Dispose of waste correctly (if applicable).		



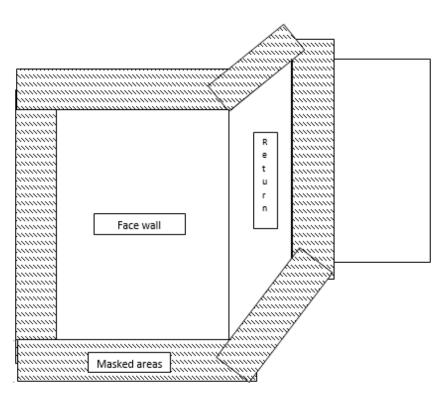


Figure 1

Plan of masked up wall layout with one external corner. Chimney breast and return suggested, 3.5 m^2 area minimum. Emulsion type as per centre availability.



Knowledge questions

- 1) What unit is Wet Film Thickness (WFT) measured in?
 - a) Spirometre.
 - b) Millimetre.
 - c) Nanometre.
 - d) Micrometre.
- 2) What is fluid injection a hazard to?
 - a) The operative.
 - b) The substrate.
 - c) The equipment.
 - d) The paint system.
- 3) What is a reversible fluid tip used for?
 - a) Adjust the pattern.
 - b) Increase flow rate.
 - c) Clearing blockages.
 - d) Releasing pressure.



Task title:			
Candidate feedback			
Assessor feedback			
Action plan			



ASSESSOR GUIDANCE

These practice tasks are designed for the candidates to make use of the 'tool kit' of knowledge, understanding and skills they will gain during their teaching and learning during this qualification in order to tackle problems/ tasks/ challenges.

Candidates are provided with a set of tasks, which can be taken in any order. The candidates have to reach into their knowledge and skills to independently select the correct processes, skills, materials, approaches to take etc, drawing on the full range of knowledge and understanding from across the qualification to make good decisions that will achieve an end result that is fit for the specified purpose.

These formative tasks will allow candidates to be supported in learning how to independently use the learning they have covered so far, drawing this together in a similar way, so they are familiar with the format, conditions and expectations of the practical assignment that they will sit at the end of this qualification.

Assessors have the option of asking candidates to complete a risk assessment, method statement or resource checklist, but this is not compulsory. Generic forms for these can be found in the appendix section.



Guidance on tasks

Resources

Centres will have well equipped workshops with compressive range of hand and portable power tools that meet current industry standards. All powered equipment should be well maintained and PAT certified. Centres will have special designated areas within their workshop (cubicles or project area) allowing candidates to practice the requirements of the unit and practice tasks.

Health and safety

Candidates should not be entered for assessment without being clear of the importance of working safely, and practice of doing so. The tutor must immediately stop a task if a candidate works unsafely and give the candidate feedback on why they were stopped. Where it is appropriate candidates must be supervised when operating machinery.

Observation

Candidates must be observed carrying out these practice tasks and notes must be taken on the quality of performance along with any other aspect of performance that will support giving feedback to the candidate.

Preparation

During the formative practice tasks, tutors should routinely point out good or poor performance during the learning period, and through formative assessment. Candidates should be encouraged to do the best they can and be made aware of the difference between these formative assessments and the summative assessments.



Knowledge Questions answer keys

Task 1Erect and dismantle access equipment and working platforms

Question	Correct key
1	С
2	В
3	С

Task 2Applying hangings to walls and ceilings

Question	Correct key
1	В
2	С
3	A

Task 3Produce specialist finishes for painted decorative work

Question	Correct key
1	В
2	A
3	С

Task 4Installation of centre-piece

Question	Correct key
1	D
2	С
3	A

Task 5Installation of cove or cornice

Question	Correct key
1	D
2	В
3	A



Task 6Apply water-borne paint systems using high volume low pressure (HVLP)spray equipment

Question	Correct key
1	В
2	D
3	А

Task 7Apply water-borne paint systems using high volume low pressure (HVLP)spray equipment

Question	Correct key
1	С
2	D
3	A

Task 8Apply water-borne paint systems using airless spray equipment

Question	Correct key
1	D
2	С
3	A

Task 9Apply water-borne paint systems using airless spray equipment

Question	Correct key
1	D
2	A
3	С



Appendix

Resource checklist

Candidate name	Date	
Task title		

Tools and equipment and materials	Quantity
eg cold chisel	1



Materials	Quantity
eg paving slabs	10

Personal Protective Equipment (PPE)	Quantity
eg safety harness	1



Risk assessment form

Candidate Name	SEVERITY (S):	LIKELIHOOD (L):	RISK RATING (RR):
	Degree of harm which may be	Probability that event will occur	Severity x Likelihood
	caused (including numbers affected)	1 = Remote	1-2 = Low
	1 = Minor Injury	2 = Possible	3-4 = Medium
	2 = Major Injury	3 = Likely	6-9 = High
	3 = Fatality	,	- 0

Date	Task title	Hazard	Existing Controls	S (1-3)	L (1-3)	RR (S x L)	Actions needed
18 July 2013	Apply materials and fix tiles to surfaces	Chemical based adhesives	PPE	1	2	2	Implement sigh off sheet to ensure PPE is worn



		Likelihood					
		Unlikely	Possible	Very likely			
	1 Slight / minor injuries / minor damage	1	2	3			
Severity	2 Medium injuries / significant damage	2	4	6			
	3 Major injury / extensive damage	3	6	9			

Likelihood

- 3 = Very likely
- 2 = Possible
- 1 = Unlikely

Severity

- 3 = Major injury / extensive damage
- 2 = Medium injury / significant damage
- 1 = Slight / minor damage

Key:

 $1 = \mbox{Low risk},$ action should be taken to reduce the risk if reasonably practicable

2, 3, 4 = Medium risk, is a significant risk and would require an appropriate level of control measures

6 & 9 = High risk, should not be undertaken without prior agreement

Method statement

Department/ location:		
Risk assessment no.		
Description of the task/ activity:		
Personnel involved:	Name	Role/ trade
Key plant & tools:		
Key materials:		
Other essential equipment:		
(ie access		
platforms/winches/ladders, etc)		
Specific identified residual		
hazards:		
(or refer to the task specific risk assessment(s))		
Specific staff training:		
Sequence of operations:		
(include sketches if required)		

Hazardous substances: (attach MSD if required) Applicable:		Very toxic		Harmfi		Corro	sive	fo	gerous r the onment	C)xidising	Highly flammable	Explosives
Required Pe Protective Equipment:	erso	nal		Safety poots	Har	O rd hats		fety	Hearin		Eye protectio	n Respirato	
Emergency procedures:	:					-14 - 17							
First Aid		st Aid :ilities:	Ai Fi Lo	ame of der: rst Aid ocation	box	(locat	ion:						
Other inform comments	nati	on &		ospital:									

Declaration of Authenticity

Candidate name

Candidate number

Centre name

Centre number

Candidate:

I confirm that all work submitted for this synoptic assignment is my own, and that I have acknowledged all sources I have used.

Candidate signature

Date

Tutor:

I confirm that all work was conducted under conditions designed to assure the authenticity of the candidate's work, and am satisfied that, to the best of my knowledge, the work produced is solely that of the candidate.

Tutor/assessor signature

Date

Assessment feedback form

Candidate name

Candidate number

Assessor name

Date of assessment

Task / AO	Feedback

Assessor signature and date: