

### 6.3.1a MODULE I CHECK LIST – CORE SKILLS ASSESSMENT – LEVEL I CAVE

Name		Date of assessment
Registration No	Date	Date of birth
Training Date		Trainer

<p><b>PRE-TRIP CHECKS</b></p> <p>Weather Forecast &amp; Sources          Water Levels and Fluctuations – recent rainfall / catchment areas          Effects of Bad Weather – surface          Access Procedures          Conservation Awareness – surface          Destination Notes          Cave Rescue Call Out Procedure          Guidebook / Survey Information          Navigation – surface          Clothing – suitability for wet / dry venues          Helmet / Belt / Boots – suitability          Lighting – suitability / duration / maintenance etc          Technical Gear – suitability / limitations / maintenance of rope / krabs / sling etc</p> <p><b>UNDERGROUND EMERGENCY GEAR</b></p> <p>Spare Lighting – suitability / duration          First Aid Kit          Emergency Food          Survival – shelter / warmth          Knife          Writing Material</p> <p><b>UNDERGROUND HAZARDS</b></p> <p>Pollution          Weil's Disease          Radon Gas          Loose / Slippery Rocks          Holes          Deep / Fast Water          Awareness of Flooding – speed of / likely effects          Evidence of Cave's reaction to Flooding          Difficulty of Rescue          Statistics / Common Rescue Incidents</p> <p><b>CONSERVATION &amp; ACCESS</b></p> <p>Site Specific          General          Public Relations</p>	<p><b>CAVE ENVIRONMENT</b></p> <p>Basic Surface Geology / Topography / Karst Features          Cave Development / Bedding &amp; Joints / Passage Shapes          Cave Deposits          Temperatures / Draughts          Flora &amp; Fauna          Fossils          Formations (Speleotherms)</p> <p><b>TECHNICAL SKILLS</b></p> <p>Underground movement skills – over a variety of passage types          Underground Navigation / Survey Interpretation / Timing          Suitable Knots          Selection and use of suitable Belay Points (natural and artificial)          Emergency Lifeline (use of rope only)          Lifeline using Italian Hitch / Slings / Krabs etc          Assisted Handline / Hoist          Improvised Harness – rope only / other          Handlines – limitations / position of leader          Unprotected Climbs – position of leader          Use of Fixed Aids – chains / ladders / ropes etc          Communications / Group Management          Leadership / Judgment</p> <p><b>ACCIDENT &amp; EMERGENCY PROCEDURES</b></p> <p>Incident Management          Assessment / First Aid Treatment / Plan of Action          Rescue Call Out          Hypothermia – Awareness / Treatment / Action          Light Failure          Cancellation of Destination Note          Overdue Problems          Surface Navigation in Poor Visibility / Darkness          Access to Dry Clothing</p>
--	--

*The Trainer / Assessor is encouraged to make a record of evidence and his / her judgement against the above items as evidence of his / her recommendation on assessment.*

**6.3.1b MODULE I CHECK LIST – CORE SKILLS ASSESSMENT – LEVEL I MINE**

Name		Date of assessment	
Registration No	Date	Date of birth	
Training Date		Trainer	

<p><b>PRE-TRIP CHECKS</b>  Weather Forecast &amp; Source  Water Levels and Fluctuations – recent rainfall / catchment areas  Effects of Bad Weather – surface  Access Procedures  Conservation Awareness – surface  Destination Notes  Mines / Cave Rescue Call Out Procedure  Guidebook / Survey Information  Navigation – surface  Clothing – suitability for wet / dry venues  Helmet / Belts / Boots – suitability  Lighting – suitability / duration / maintenance etc  Technical Gear – suitability / limitations / maintenance of rope / krab / sling etc</p> <p><b>UNDERGROUND EMERGENCY GEAR</b>  Spare Lighting – suitability / duration  First Aid Kit  Emergency Food  Survival – shelter / warmth  Knife  Writing Material</p> <p><b>UNDERGROUND HAZARDS</b>  Adit or Other Entrance  Roof Supports  Bad Ground  False Floors  Stacked Deads  Shafts – Bypass Method  Flooded Shafts – Bypass Method  Submerged Obstacles  Hoppers  Rotten Stemples / Ladders / Staging  Cables / Chains / Pipework  Abandoned Machinery  Old Explosives / Detonators  Dumped Chemicals  Dangerous Gases (inc. Radon)  Poor Ventilation – treatment / action  Weil’s Disease  Pollution  Loose / Slippery Rocks  Deep Water  Awareness of Flooding – speed of / likely effects  Evidence of mine’s reaction to flooding  Difficulty of Rescue  Statistics / Common Rescue Incidents</p>	<p><b>SURFACE HAZARDS</b>  Shaft Tops  Loose Shaft Lining (Ginging)  Unstable Spoil Heaps  Unfenced Excavations (Stopes)  Wheelpits  Abandoned Buildings  Abandoned Machinery  Unconsolidated Slimes Dams</p> <p><b>CONSERVATION</b>  Artefacts  Minerals / Formations  Flora &amp; Fauna (inc. Bats &amp; Hibernacula)  Effect of Litter &amp; Pollutants  Public Relations</p> <p><b>HISTORY</b>  Brief History of Named Mines  General Working Methods  Minerals Obtained</p> <p><b>ACCESS / LAW / INFORMATION</b>  Land Ownership / Access Arrangements  Mine Ownership  Mineral Rights Ownership  Application of Legislation  Survey &amp; Information Sources</p> <p><b>TECHNICAL SKILLS</b>  Underground navigation / survey interpretation / timing  Suitable Knots  Selection and use of suitable Belay Points (natural and artificial)  Emergency Lifeline (use of rope only)  Lifeline using Italian Hitch / Slings / Krabs etc  Handlines – limitations / position of leader  Improvised Harness – rope only / other  Unprotected Climbs – position of leader  Use of Fixed Aids – chains / ladders / ropes  Communication / Group Management  Leadership / Judgement</p> <p><b>ACCIDENT &amp; EMERGENCY PROCEDURES</b>  Incident Management  Assessment / First Aid Treatment / Plan of Action  Rescue Call Out  Hypothermia – awareness / treatment / action  Light Failure  Cancellation of Destination Note  Overdue Problems  Surface Navigation in Poor Visibility / Darkness  Access to Dry Clothing</p>
--	---

*The Trainer / Assessor is encouraged to make a record of evidence and his / her judgement against the above items as evidence of his / her recommendation on assessment.*

**6.3.2 MODULE 2 CHECK LIST – GROUP SKILLS ASSESSMENT –  
LEVEL I CAVE OR MINE**

Name		Date of assessment	
Registration No	Date	Date of birth	
Core Skills Assessment Date		Assessor	
Assistant Leader(s)			
Group Numbers		Group ability	

Suitability of Venue & Trip

Weather Conditions / Water Levels / Flood Awareness

Compliance with Access Procedures

Surface Navigation / Care of Groups en-route to Venue

Suitability of Clothing & Personal Equipment of Group

Vertical aspects

Appropriateness of technical equipment

Protection of group on scrambles with and without a rope

Suitability and effectiveness of techniques for descent / ascent

Own progression

Leadership Style / Rapport / Sensitivity to Group

Effectiveness of Party Management / Group Control & Safety

Education / Conservation / History etc

Suitability of Group Briefings (Technical, Educational, Information, Hazards)

Use of Assistant Leader(s)

Appropriate Emergency Kit & Rescue Call-Out

Organization & Running of Day

*The Trainer / Assessor is encouraged to make a record of evidence and his / her judgement against the above items as evidence of his / her recommendation on assessment.*

**6.3.3 MODULE 3 CHECK LIST – VERTICAL SKILLS ASSESSMENT –  
LEVEL 2 CAVE OR MINE**

Name		Date of assessment	
Registration No	Date	Date of birth	
Core Skills Assessment Date		Assessor	
Group Skills Assessment Date		Assessor	

<p><b>VERTICAL EQUIPMENT</b></p> <p>Leader's Personal Equipment – suitability / care Choice and suitability of equipment for group members' use – harness / cows-tails / descender etc Knowledge of PPE regulations and Equipment Standards Ropes – types / construction / longevity / usage / storage / care etc Karabiner / Maillons – types / usage / limitations etc Ladders / Spreaders / Tethers – types / construction / linkage / limitations / coiling / storage etc Descenders / Ascenders / Pulleys / Belay devices etc – types / usage / limitations Bolts – types / usage / limitations Other Artificial Anchors – types / usages / limitations</p> <p><b>KNOTS</b></p> <p>Use of an appropriate range of knots Knowledge of suitability / limitations</p> <p><b>RIGGING</b></p> <p>Equipment Preparation / Packing Rigger Protection – methods and their advantages / limitations Natural Anchors – suitability and use Artificial Anchors – pre-use checks Knowledge of Fall Factors Traverse Lines Belay systems – construction using rope / slings – alignment and forces – sharing loads Pitch head – approach / ease of access / position of leader etc Ladders – use of spreaders etc / deployment etc Group abseil rope – releasable Lifeline – inc. for double lifelining</p>	<p><b>LIFELINING METHODS</b></p> <p>Belay Methods and Devices – use and limitations Position of Leader Safety of group members – waiting / to &amp; from pitch head Efficiency / Fluidity of Lifeline Techniques Double Lifelining Communication</p> <p><b>DESCENT / ASCENT</b></p> <p>Group Ladder climbing – pros and cons / hazards / style Group Abseiling – pros and cons / hazards Lowering – pros and cons / hazards Leader Personal safety – ladder / abseil</p> <p><b>EMERGENCY VERTICAL TECHNIQUES</b></p> <p>Improvised Harness – rope only / slings &amp; krabs Use &amp; Limitations of Waist Belay Chosen belay method or device – ability to lock off / ability to lower off / ability to convert to hoist etc Ladder problems and solutions Abseil problems and solutions Lowering problems and solutions Traverse problems and solutions Assistance to exhausted ladder climber Hoist of exhausted / injured group member – with assistance / without assistance Conversion of hoist to lower</p>
---	--

*The Trainer / Assessor is encouraged to make a record of evidence and his / her judgement against the above items as evidence of his / her recommendation on assessment.*

**6.3.4 MODULE 4 CHECK LIST – GROUP VERTICAL SKILLS ASSESSMENT –  
LEVEL 2 CAVE OR MINE**

Name		Date of assessment	
Registration No	Date		Date of birth
Vertical Skills Assessment Date		Assessor	
Assistant Leader(s)			
Group Numbers		Group ability	

Suitability of Venue & Trip

Weather Conditions / Water Levels / Flood Awareness

Compliance with Access Procedures

Surface Navigation / Care of Groups en-route to Venue

Suitability of Clothing & Personal Equipment of Group

Vertical aspects

Appropriateness of technical equipment

Protection of group on scrambles with and without a rope

Protection of group at pitch head / foot

Suitability and effectiveness of techniques for descent / ascent

Own progression

Leadership Style / Rapport / Sensitivity to Group

Effectiveness of Party Management / Group Control & Safety

Education / Conservation / History etc

Suitability of Group Briefings (Technical, Educational, Information, Hazards)

Use of Assistant Leader(s)

Appropriate Emergency Kit & Rescue Call-Out

Organization & Running of Day

*The Trainer / Assessor is encouraged to make a record of evidence and his / her judgement against the above items as evidence of his / her recommendation on assessment.*

### 6.3.5 MODULE 5 CHECK LIST – LEADER’S SINGLE ROPE TECHNIQUES SKILLS

Name		Date of assessment
Registration No	Date	Date of birth
Module 3 Vertical Skills Assessment Date		Assessor
Module 4 Group Vertical Skills Assessment Date		Assessor

#### PERSONAL SRT

Due consideration of accident to leader

Personal SRT equipment – suitability and use

SRT personal skills – pitch head / descent / ascent / deviations / rebelay etc

Self Rescue – improvisation in case of equipment failure or loss etc

Ropes and Knots for SRT

Use of Rigging Guides / Topos

Rigging for SRT – principles / personal safety / traverse lines / pitch head / rebelay / deviations

Conversion of SRT Rigging for lifeline / group abseil / group lower

Use and suitability of Personal SRT equipment for lifelining / lowering / rescue

Consideration and use of Travelling Ladders

*The Trainer / Assessor is encouraged to make a record of evidence and his / her judgement against the above items as evidence of his / her recommendation on assessment.*

**6.3.6a MODULE 6 CHECK LIST – TRANSFER MODULE ASSESSMENT –  
MINE TO CAVE**

Name		Date of assessment
Registration No	Date	Date of birth
Module 1 and / or 3 Assessment Dates		Assessor
Module 2 and / or 4 Assessment Dates		Assessor

**UNDERGROUND HAZARDS**

- Pollution
- Weil's Disease
- Radon Gas
- Loose / Slippery Rocks
- Holes
- Deep / Fast Water
- Awareness of Flooding – speed of / likely effects
- Evidence of Cave's reaction to Flooding
- Difficulty of Rescue
- Statistics / Common Rescue Incidents

**CONSERVATION & ACCESS**

- Site Specific
- General
- Public Relations

**CAVE ENVIRONMENT**

- Basic Surface Geology / Topography / Karst Features
- Cave Development / Bedding & Joints / Passage Shapes
- Cave Deposits
- Temperatures / Draughts
- Flora & Fauna
- Fossils
- Formations (Speleothems)

*The Trainer / Assessor is encouraged to make a record of evidence and his / her judgement against the above items as evidence of his / her recommendation on assessment.*

**6.3.6b MODULE 6 CHECK LIST – TRANSFER MODULE ASSESSMENT –  
CAVE TO MINE**

Name		Date of assessment
Registration No	Date	Date of birth
Module 1 and / or 3 Assessment Dates		Assessor
Module 2 and / or 4 Assessment Dates		Assessor

<p><b>UNDERGROUND HAZARDS</b></p> <p>Adit or Other Entrance Roof Supports Bad Ground False Floors Stacked Deads Shafts – Bypass Method Flooded Shafts – Bypass Method Submerged Obstacles Hoppers Rotten Stemples / Ladders / Staging Cables / Chains / Pipework Abandoned Machinery Old Explosives / Detonators Dumped Chemicals Dangerous Gases (inc. Radon) Poor Ventilation – treatment / action Weils Disease Pollution Loose / Slippery Rocks Deep Water Awareness of Flooding – speed of / likely effects Evidence of mine's reaction to flooding Difficulty of Rescue Statistics / Common Rescue Incidents</p> <p><b>SURFACE HAZARDS</b></p> <p>Shaft Tops Loose Shaft lining (Ginging) Unstable Spoil Heaps Unfenced Excavations (Stopes) Wheelpits Abandoned Buildings Abandoned Machinery Unconsolidated Slimes Dams</p>	<p><b>CONSERVATION</b></p> <p>Artefacts Minerals / Formations Flora &amp; Fauna (inc. Bats &amp; Hibernacula) Effect of Litter &amp; Pollutants Public Relations</p> <p><b>HISTORY</b></p> <p>Brief History of Named Mines General Working Methods Minerals Obtained</p> <p><b>ACCESS / LAW / INFORMATION</b></p> <p>Land Ownership / Access Arrangements Mine Ownership Mineral Rights Ownership Application of Legislation Survey &amp; Information Sources</p>
---	---

*The Trainer / Assessor is encouraged to make a record of evidence and his / her judgement against the above items as evidence of his / her recommendation on assessment.*