TECHNICAL EVALUATION RECORD

QUALIFICATION:	L3 Award in Aerial Tree Rigging	**Qualification Code/s:**	Independent: 0021-09
		Units:	309

Assessor Name:		**Technical Verifier Name:**	
Assessor No: **NEW? D.O.B:**		**Technical Verifier No:**	
Assessor email:		**Start Time:**	
Invoice To: (Include Centre name if applicable)		**End Time:**	

CRITERIA: **(See guidance notes on next sheet)**	**PERFORMANCE EVALUATION(Circle):**					**COMMENTS:**
Knowledge of Health and Safety legislation	1	2	3	4	5	
Risk Assessment, legal and environmental considerations	1	2	3	4	5	
Knowledge of current industry research and guidance	1	2	3	4	5	
Accurate assessment of site and trees	1	2	3	4	5	
Knowledge of rigging hardware components	1	2	3	4	5	
Knowledge of rigging cordage and webbing components	1	2	3	4	5	
Ability to undertake inspection and maintenance of rigging components	1	2	3	4	5	
Knowledge of terminology e.g.: MBS, WLL, SWL etc.	1	2	3	4	5	
Knowledge and ability to estimate the mass of sections	1	2	3	4	5	
Knowledge and ability to estimate peak loads	1	2	3	4	5	
Communication with ground staff	1	2	3	4	5	
Appropriate work positioning techniques including the use of climbing irons	1	2	3	4	5	
Appropriate selection of technique	1	2	3	4	5	
Efficient use of rigging equipment	1	2	3	4	5	
Knowledge of various rigging techniques	1	2	3	4	5	
PERFORMANCE EVALUATION COLUMN TOTALS:						**= TOTAL SCORE:**

Result of Technical Evaluation (tick):	**PASS** / **FAIL**	**TOTAL SCORE REQUIRED TO ACHIEVE ASSESSOR STATUS: (NB. ACHIEVED IN PERFORMANCE EVALUATION COLUMNS 4 & 5 ONLY)**	**60**

TECHNICAL VERIFIER COMMENTS (ACTION PLAN):

Please continue on reverse if necessary
ASSESSOR COMMENTS: *Please continue on reverse if necessary*

TECHNICAL VERIFIER SIGNATURE:		**Cost:** **£200 Half Day** **£300 Full Day**	**DATE:**
ASSESSOR SIGNATURE:			

Guidance
The following information provides indicative content of the technical evaluation. Applicants will be expected to demonstrate practical skills and knowledge greater than that of a candidate, including exemplary performances upon demand. These guidance notes should also be read in conjunction with the relevant Qualification Guidance.

Legislation and environmental considerations
The person being evaluated should have knowledge of the key principles and practical relevance of the following legislation:

- Health and Safety at Work etc. Act
- Management of Health and Safety at Work Regulations
- Provision and Use of Work Equipment Regulations
- Personal Protective Equipment at Work Regulations
- Manual Handling Operations Regulations
- Lifting Operations Lifting Equipment Regulations
- Work at Height Regulations
- Wildlife and Countryside Act
- Countryside and Rights of Way Act
- European Protected Species Directive

Applicants will be asked to demonstrate further knowledge of how they would make arrangements to comply with above Regulations.

Sources of reference information and industry good practice guides
Applicants will require knowledge of the basic content and relevance of the following:

- Industry Code of Practice (ICOP): Tree Work
- AA/HSE Guide to Good Climbing Practice
- Equipment manufacturers instructions/data
- HSE Research Report RR668: Evaluation of current rigging and dismantling practices used in arboriculture

Risk assessment and environmental considerations
Applicants will be required to carry out a site specific risk assessment, and identify the nature and level of the risks associated with a rigging operation.

Knowledge to be demonstrated on the impacts of specific wildlife such as bats and nesting birds on the rigging operation.

Tree identification
Applicant must be able to identify the species of tree to be worked upon, and at least one other on site including timber characteristics.

Site and Tree Assessment
Demonstrate knowledge of appropriate site layout and possible factors to consider e.g.

- Access and egress
- Personnel
- Targets

- The Applicant will be expected to undertake a tree condition assessment, commenting on possible hazards affecting the rigging operation.

Familiarity with a range of different tree climbing equipment
Recognition of the most common tree rigging equipment, inspection intervals and techniques without reference to product information.

Terminology
Explanation of key terms to include:

- Minimum Breaking Strength
- Working Load Limit
- Safe Working Load
- Safety/Design Factor

Ropes and cordage
Applicant to identify three common rope constructions and comment upon suitability for intended use.

Connectors
Applicant to identify three common types of connectors.

Pulleys
Applicant to demonstrate knowledge of different pulley uses, and correct application/installation.

Accessories
Applicant to identify five rigging accessories

The Applicant will be expected to show evidence of how the equipment in use complies with the Lifting Operations Lifting Equipment Regulations e.g. thorough examination records.

Rigging techniques
The Applicant will be required to demonstrate knowledge of the following rigging techniques:

- Drift/load transfer line
- Balance/cradle
- Speedline
- Use of cranes for tree removal
- Craning points and lifting

Professional discussion relating to the use of false anchor points and pull/tag lines is also to be included.

Technique selection
The following techniques must be demonstrated:

- Butt tie
- Tip tie
- Balance/cradle
- Working from a pole using climbing irons
- Free fall techniques on vertical timber
- Hand held techniques on vertical timber
- "Snatching"

It will be expected the Applicant can demonstrate how to tie, dress and set a range of commonly used knots for rigging as indicated within the aerial tree rigging qualification guidance.

The Applicant will be expected to demonstrate the correct set up and use of:

- Lowering devices e.g.: Portawrap
- False anchors including the use of pulleys

Mass of sections and peak loads

The Applicant will be expected to demonstrate knowledge of how to calculate the mass of timber sections, referring to:

- Reference log mass charts, and
- Species dependent correction factors

Peak Loads

The Applicant will be expected to understand and discuss:

- How and when peak loads are generated
- Consequences of peak loads on the rigging system
- Anchor forces
- How to minimise peak forces