

<h1>European driver license</h1>			
<p><u>General information's</u></p>			
<p>All persons on the exam place have to wear PPE</p>			
<p><u>Tasks and operating sequence</u></p>			
<p>1. Task: "Unloading machine and equipment from transport vehicle"</p> <p>Specifications: The drilling or pile driving rig is on the transport vehicle, it has to be unloaded and set down in readiness for subsequent assembly.</p> <p>The base carrier on the transport vehicle together with equipment is ready for unloading.</p> <p>You take over the machine from the driver of the transport vehicle together with the equipment which is secured on the loading deck and proceed in sole responsibility to unload and set down the machine for assembly in the following sequence:</p> <ul style="list-style-type: none"> • Prepare the machine to move off the loading deck • Release and remove lashings • Move off the loading deck • Release and remove lashings from drilling / pile driving equipment • Unload the equipment from the transport vehicle <p>Place the machine and equipment in a suitable location for assembly as the next step in the operation. The machine configuration comprises the following structural components:</p> <ul style="list-style-type: none"> • Base carrier with crawler carriage • Main mast section for attachment of masthead • Sledge with active crowd system • Winches for Kelly bar and auxiliary operations • Or other components depending on type of rigs <p>Equipment / accessories: For example, Kelly drilling:</p> <ul style="list-style-type: none"> • Tools and slinging accessories • Masthead • Main and auxiliary ropes (placed on the winches, but not spooled) • Rotary drive c/w casing drive adapter • Drill casings • Drilling tools (auger, core barrel and drilling bucket) • Kelly bar • Driving elements 			

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Similar list for other working methods Hoisting equipment (depending on the lifting work) e.g.:			
<ul style="list-style-type: none"> • Steel wire ropes • Chains • Chain work • Nylon slings • 			
<u>Assessment criteria</u>			
During the execution of the task the following criteria are assessed by the examiners:			
<u>Preparing the machine for unloading</u>	Point system		
	NL	DE	EU
<ul style="list-style-type: none"> • Assess suitability of the unloading area in respect of adequate load-bearing capacity, inclination and size. 		10	
<ul style="list-style-type: none"> • Check with the driver of the transport vehicle whether the loading deck has to be supported during unloading. 		10	
<ul style="list-style-type: none"> • Before releasing the lashings, check machine is in a stable position. 		10	
<ul style="list-style-type: none"> • Assess suitability of the unloading ramps for the machine to drive onto (width, inclination, spacing, securing of ramps) 		10	
<ul style="list-style-type: none"> • Before releasing the lashings, check machine is in a stable position. 		10	
<u>Unloading the machine</u>			
<ul style="list-style-type: none"> • Plan and agree the unloading procedure, as well as hand signals and position of the signaller prior to starting to unload. 		10	
<ul style="list-style-type: none"> • No slewing of upper-carriage before the unloading process has been fully completed, do not release lock pin in slew ring. 		10	
<ul style="list-style-type: none"> • When moving the machine, ensure exact longitudinal movement of the crawler tracks on the loading deck. 		10	
<ul style="list-style-type: none"> • Signaller and banksman must always be in the machine operator's field of vision and outside the hazardous area. 		10	
<ul style="list-style-type: none"> • After unloading, extend the telescopic crawler-carriage (if fitted) to its full operating width 		10	
<ul style="list-style-type: none"> • When unloading the equipment, ensure that suitable lifting accessories and lifting points are selected and the equipment is placed in a stable position. 		10	

This task is to be completed in approximately 60 minutes.

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2. Task: Initial check	Point system		
	NL	DE	EU
<i>The candidate can also be granted an intermediate valuation for certain parts of the exam</i>			
Similar daily inspection according to the manual			
A. Visual check on machine for individual failures or leakages			
• walking around the machine and looking	4		
• looking on one side or not looking at all	0		
B. Check on engine oil level (upper- and undercarriage)			
• the dipstick is first wiped with a clean cloth and then the oil level is checked	2		
• oil level check using dirty cloth/checking without cloth/no checking at all	0		
C. Check on cooling (upper- and undercarriage)			
• is pollution of radiator, belt, belt breakage protection, hoses and level checked	2		
• not checked, or only some of the check points are checked.	0		
D. Check on fuel level			
• is looked at/for	2		
• is not checked or looked for	0		
E. Check on hydraulic-oil level			
• checking of the hydraulic oil level	2		
• check by use of dirty cloth/checking without cloth/no checking at all	0		
F. Check on battery			
• battery mounting, battery fluid level, holes in caps and the poles are checked	2		
• candidate cannot autonomously indicate check points	0		
G. Check on tracks			
• tension damage, stuck dirt, wear and leakage as a result of rolling are checked	2		
• candidate cannot autonomously indicate check points	0		
H. Visual check on cables, discs, lifting block, hoisting wire and cable stays piling pole or boom attachment.			
• serious wear, deformation and damages, cracks, deterioration or illegible details are checked	4		
• three control points are indicated	2		
• candidate cannot autonomously indicate check points	0		
I. How is the fuel system vented and how is the fuel course from tank to atomiser indicated?			
• are tank, pre-filter, priming pump, fine filter, injection pump and atomizer pointed out in the right order	4		
• are four out of six points indicated or is the order pointed out incorrectly indicated	2		
• are three or fewer points indicated	0		

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	NL	DE	EU
J. When asked, the candidate can tell that air filter indicator must be checked			
• yes	2		
• no	0		
K. Often the hydraulic machine is equipped with an air compressor. Candidate can tell, when asked, that frost-protection and condensation water of the air pressure system must be checked			
• yes	2		
• no	0		
L. When asked, the candidate can tell how the pile-installation movements and securities must be checked			
• all movements, extreme position, LMP Load Moment Protection (if present), three windings, hoist height are mentioned	4		
• only the main ones are mentioned	2		
• none of the (or only) the machine movements are mentioned	0		
M. Candidate can explain about a set-up inspection and a machine assessment in the context of the Health and Safety legislation			
• yes	2		
• no	0		
N. Check the visibility (mirrors and cameras, windows)			
• yes	2		
• no	0		
O. Check of paper work (instruction based on risk assessment is the manual available)			
• yes	2		
• no	0		
P. Special instructions for lifting process securing (sheet piles)			
• yes	2		
• no	0		
Q. Check of paper work (instruction based on risk assessment is the manual available)			
• Yes	2		
• no	0		
R. Special instructions for lifting process securing sheet piles)			
• yes	2		
• no	0		

Time frame 15 minutes

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3.Task: "Assembling / Rigging the base carrier"	Point system		
	NL	DE	EU
<p>Specifications: The machine and the required components and lifting accessories are provided for assembly at the setting up area. The assembly of the drilling or pile driving rig is to be carried out.</p> <p>Take charge of the machine provided c/w with equipment. The components required for the operation of the base carrier and mast are to be attached in the following sequence:</p> <ul style="list-style-type: none"> • Check the available equipment and connecting components for condition and completeness • Check the available tools for condition and completeness • Check the lifting gear matches the lifting capacity • Select and check the operational readiness of the required lifting accessories • Establish the sequence and procedure for rigging up the machine and mast • (based on operating manual) • Discuss and agree the assignment of tasks with banksmen and rigger 			
<p>Hoisting tools The candidate can also be granted an intermediate valuation for certain parts of the exam.</p>			
A. Static data/rejection standards chains	0-5		
B. Application of hoisting a steel tube with a given weight, underneath the scaffold			
• good	6		
• adequate	3		
• poor	0		
C. Application of hoisting a piling pole with a given weight, underneath the scaffold			
• good	6		
• adequate	3		
• poor	0		
D. Application of hoisting a steel sheet pile section profile with a given weight, underneath the scaffold			
• good	6		
• adequate	3		
• poor	0		
E. Candidate knows correct name for talurit swaged sleeve and super loop			
• yes	1		
• no	0		

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F. When asked, the candidate can tell the difference between load of a talurit swaged sleeve and load of a super loop			
• yes	1		
• no	0		
G. Static data/rejection standards hoisting belts	0-5		
•			
•			
•			
H. Applying two hoist belts for horizontal hoisting of a steel tube with a given weight			
• good W.L. and suitability and application of belt protection			
• not reading belt details			
• too small W.L. and/or not applying belt protection			
I. Treatment of hoisting tools without hitting or dragging			
• always	6		
• 2 x not	3		
• mostly not	0		
J. Cleans up hoisting tools autonomously			
• yes			
• no			
K. Understanding of the work			
• good			
• adequate			
• poor			

Time frame 15 minutes

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Hoisting tables / capacity tables <i>The candidate can also be granted an intermediate valuation for certain parts of the exam.</i>	Point system		
	NL	DE	EU
L. Using a bill of material to assess the weight in kg of a steel tube or a concrete pole	0-5		
• total weight is assessed correctly within 0 and +100 kg	5		
• total weight is assessed correctly within -100 and +100 kg	3		
• total weight is not assessed correctly and/or is assessed only with assistance	0		
M. Using a bill of material to assess the weight in kg of a hammer or vibratory hammer			
• total weight is assessed correctly within 0 and +100 kg	5		
• total weight is assessed correctly within -100 and +100 kg	3		
• total weight is not assessed correctly and/or is assessed only with assistance	0		
N. Estimating the weight in tons of the total pile driver installation in tons			
• total weight is assessed correctly within 0 and + 5 tons	5		
• total weight is assessed correctly within -10 and + 10 tons	3		
• total weight is not assessed correctly and/or is assessed only with assistance	0		
O. Assert hoisting block and number of reeving for given load including hoisting tools			
• hoisting and amount of reeving correctly	2		
• hoisting and amount of reeving too large or too small	0		
P. Assess the weight of a hoisting load including hoisting tools for use with the capacity table with given load weight			
• hoisting load weight is assessed correctly within 0 and +200 kg			
• hoisting load weight is assessed correctly within -100 and +500 kg			
• hoisting load weight is assessed correctly and/or is assessed only with assistance			
Q. Assessing maximum position for a given machine setup			
• Correct	5		
• false	0		
R. Assessing maximum course for given hoisting possibility and given hoisting load			
• correct	5		
• false	0		

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S. Assessing available hoisting height for given piling pole / boom height, height from end disc to hook, height of Hammer or vibratory hammer and height of foundation element			
• correct	2		
• false	0		
T. Understanding of the work			
• good	5		
• adequate	3		
• poor	0		

Time frame 20 minutes

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After assembly place the machine and equipment in a location suitable for attaching the drilling equipment (3rd task).	Point system		
	NL	DE	EU
<u>Assessment criteria</u>			
During the execution of the task the following criteria are assessed by the examiners:			
<u>Positioning the machine for assembly</u>			
<ul style="list-style-type: none"> Assess the suitability of the rigging area in respect of adequate load-bearing capacity, inclination and size. 		10	
<ul style="list-style-type: none"> Establish the procedure for assembly in accordance with the equipment manufacturer's operating instructions and the necessary individual work steps to be carried out. Discuss and agree the assignment of tasks with banksmen and riggers. 		10	
<ul style="list-style-type: none"> Give a brief presentation of the agreed procedure to the examiners (who will make corrections if necessary) 		10	
<u>Assembly of individually supplied components of the base carrier</u>			
<ul style="list-style-type: none"> Check the equipment provided for completeness and lifting points and lifting accessories for proper condition. 		10	
<ul style="list-style-type: none"> Establish which lifting points on components and attachment parts are to be used and share this information with the rigger 		10	
<ul style="list-style-type: none"> Check the load charts of the machine for any possible restrictions when assembling the machine. 		10	
<ul style="list-style-type: none"> Use tools and auxiliary assembly equipment appropriately, if necessary attach the upper mast section, masthead and connect the hoist limit switch. 		10	
<ul style="list-style-type: none"> Start travelling and steering manoeuvres only when they do not endanger personnel. For areas that are not in the field of vision, a signaler is required. 		10	
<ul style="list-style-type: none"> When, according to the operating instructions, weights have to be attached, these must be attached in accordance with the operating instructions. 		10	
<ul style="list-style-type: none"> On completion of the assembly process: check all safety-relevant functions and components (hoist limit switch, emergency stop, rope load sensor, mast inclination indicator, stroke length). 		10	

This task is to be completed in approximately 90 minutes

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4.Task: "Attaching the drilling or pile driving equipment"	Point system		
	NL	DE	EU
<p>Drilling rig specifications: The base carrier, rotary drive, casing drive adapter attached to the rotary drive, Kelly bar and lifting accessories as well as drilling tools are provided at the setting up area.</p> <p>Pile driving rig specifications: The base carrier, hydraulic vibrator, hammer, clamp assembly, clamp for lifting driving elements and lifting accessories are provided at the setting up area.</p>			
<u>Assessment criteria</u>			
During the execution of the task, the following criteria are assessed by the examiners:			
<u>Preparations for attaching the process-specific components</u>			
<ul style="list-style-type: none"> Establish the procedure for attaching the components in compliance with the equipment manufacturer's operating instructions and determine the individual work steps required to be carried out 		10	
<ul style="list-style-type: none"> Give a short presentation of the agreed procedures to the examiners (who will make corrections if necessary). 		10	
<ul style="list-style-type: none"> Check the equipment provided for completeness and lifting points and lifting accessories for proper condition 		10	
<ul style="list-style-type: none"> Discuss and agree with the banksmen and riggers the procedure for the work to be carried out 		10	
<u>Attaching the pile driving equipment</u>			
<ul style="list-style-type: none"> Caution and oversight during assembly and attaching the equipment 		10	
<ul style="list-style-type: none"> Check the safety equipment (pitching chain, end stops). Check that the screw connections (clamp and jaws) are tight. 		10	
<ul style="list-style-type: none"> Procedure for attaching the vibrator and connecting the hydraulic hoses 		10	
<ul style="list-style-type: none"> Procedure for adjusting the on-board electronic system for the attached process-specific components and checking all safety-relevant machine components. 		10	
<ul style="list-style-type: none"> Start travelling and steering manoeuvres only when they do not endanger personnel. For areas which are not in the field of vision, a signaler is required. A signaler must always be in the machine operator's field of vision during machine movements; if not in clear view, machine movements must not be carried out. 		10	

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<u>Attaching the drilling equipment (Kelly drilling)</u>			
<ul style="list-style-type: none"> • Caution and oversight during assembly and attaching the equipment 		10	
<ul style="list-style-type: none"> • Procedure for attaching the rotary drive and casing drive adapter and for connecting the hydraulic hoses. 		10	
<ul style="list-style-type: none"> • Procedure for attaching the swivel and installing the Kelly bar. 		10	
<ul style="list-style-type: none"> • Procedure for adjusting the on-board electronic system for the attached process-specific components and checking through all safety-relevant machine components. 		10	
<ul style="list-style-type: none"> • Start travelling and steering manoeuvres only if they do not endanger personnel. For areas which are not in the field of vision, a signaler is required. The signaler must always be in the machine operator's field of vision during machine movements; if not in clear view, machine movements must not be carried out. 		10	

This task is to be completed in approximately 90 minutes

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5.Task: "Constructing a borehole".	Point system		
	NL	DE	EU
<p>Drilling rig specifications:</p> <p>The machine provided is rigged with full Kelly drilling equipment for the construction of a cased borehole.</p> <p>Available tools include an auger, core barrel, drill bucket and casing sections of various lengths and diameters.</p>			
<u>Assessment criteria</u>			
During the execution of the task, the following criteria are assessed by the examiners:			
<u>Setting up at the borehole position</u>			
<ul style="list-style-type: none"> Assess suitability of the working platform and move the drilling rig, drilling tools and casings to the borehole position. Use of suitable lifting accessories, etc. 		10	
<ul style="list-style-type: none"> Establish the procedure for drilling in accordance with the equipment manufacturer's operating instructions and the necessary individual work steps to be carried out. Discuss and agree the assignment of tasks with the banksmen and riggers. 		10	
<ul style="list-style-type: none"> All loads are to be put down safely and in a stable position after moving. 		10	
<ul style="list-style-type: none"> When moving, ensure that the overall center of gravity of the machine is kept as low as possible (e.g. move height-adjustable components to the lowest position). 		10	
<ul style="list-style-type: none"> The signaler must always be in the machine operator's field of vision during machine movements; if not in clear view, machine movements must not be carried out. 		10	
<ul style="list-style-type: none"> Caution and oversight during moving and during lifting operations. 		10	
<ul style="list-style-type: none"> Start travelling and steering manoeuvres only when they do not endanger personnel. For areas which are not in the field of vision, a signaler is required. Reversing the machine without a rear view camera is only permitted with the aid of a signaler 		10	

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<u>Drilling</u>			
<ul style="list-style-type: none"> The banksman has to be in the machine operator's field of vision at all times; if this is not possible for operational reasons, signalers have to be engaged 		10	
<ul style="list-style-type: none"> Extra caution is required when attaching and screwing together casing sections 		10	
<ul style="list-style-type: none"> Drilling tools and casings required in the operating area of the machine must always be placed in a stable position at least ½ m outside of the outer slewing range 		10	

This task is to be completed in approximately 60 minutes

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6.Task: “Installing and vibrating driving elements”	Point system		
	NL	DE	EU
<p>Pile driving rig specifications:</p> <p>The machine is fully rigged with a hydraulic vibrator and clamping assembly, a clamp for lifting driving elements and additional lifting accessories are provided.</p> <p>Steel sheet piles or channels are provided as driving elements.</p>			
<u>Assessment criteria</u>			
During the execution of the task, the following criteria are assessed by the examiners:			
<u>Setting up at the pile driving position</u>			
<ul style="list-style-type: none"> Assess suitability of the working platform and move the machine, driving elements and auxiliary equipment to the pile driving position 		10	
<ul style="list-style-type: none"> Assess the safety during the moving process, lifting operations, pitching driving elements, installing driving elements. 		10	
<ul style="list-style-type: none"> Safe use of the pitching clamps, discuss and agree form of communication between rig operator and banksman, particularly when lifting and pitching the driving elements 		10	
<ul style="list-style-type: none"> All loads are to be put down safely and in a stable position after moving 		10	
<ul style="list-style-type: none"> When moving, aim to keep the overall center of gravity of the machine as low as possible (e.g. move height-adjustable components to the lowest position). 		10	
<ul style="list-style-type: none"> The signaler must always be in the machine operator’s field of vision during machine movements; if not in clear view, machine movements must not be carried out. 		10	
<ul style="list-style-type: none"> Start travelling and steering manoeuvres only when they do not endanger personnel. For areas which are not in the field of vision, a signaler is required 		10	

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<u>Driving process</u>	Point system		
	NL	DE	EU
<ul style="list-style-type: none"> The slinger has to be constantly in the machine operator's field of vision when driving and especially when pitching a pile. When not in clear view, movements must not be carried out 		10	
<ul style="list-style-type: none"> Discuss and agree between machine operator, signaler and slinger. the procedure for the work to be carried out 		10	
<ul style="list-style-type: none"> Driving elements and auxiliary equipment required in the operating area of the machine must always be placed in a stable position at least ½ m outside of the outer slewing range 		10	
<p>Operating machine (setting up piles) 25 minutes</p> <p><i>The candidate can also be granted an intermediate valuation for certain parts of the exam.</i></p>			
<p>A. Determining setup position and location of the machine with a given Piling plan and storage of foundation equipment</p>			
<ul style="list-style-type: none"> good 			
<ul style="list-style-type: none"> adequate 			
<ul style="list-style-type: none"> poor 			
<ul style="list-style-type: none"> 			
<p>B. Candidate can autonomously name the points of attention Bearing strength of the soil/ with or without dragline mats. For straight forward movement/ making curves and with the setup of the foundation installation with or without stabilizing</p> <p>Namely. Soil condition, penetrometer, or by use of the heel-test underground pipes/tanks use of outrigger pads or dragline mats</p>			
<ul style="list-style-type: none"> - three points of attention 	10		
<ul style="list-style-type: none"> - one or two points of attention 	6		
<ul style="list-style-type: none"> - none or no essential points of attention 	0		
<p>C. Setting up foundation installation by use of dragline mats</p>			
<ul style="list-style-type: none"> - track driven machine horizontal, piling pole/boom vertical 	16		
<ul style="list-style-type: none"> - track bearing piling pole slant in connection strut position 	8		
<ul style="list-style-type: none"> - tracks not entirely bearing, non-stable setup 	0		
<p>D. Can adequately handle a hammer is able to correctly operate the hammer check on maintenance hammer is able to assemble the hammer</p>			
<ul style="list-style-type: none"> good 	18		
<ul style="list-style-type: none"> adequate 	10		
<ul style="list-style-type: none"> poor (in case of poor result, candidate does not pass) 	0		

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E. Can adequately work with a vibratory hammer can explain the maintenance of a vibratory hammer correctly connect vibratory hammer			
• works adequately and explains the consequence of similar vibration figures for adjacent plots	18		
• requires assistance two to three times with vibrating the foundation element	10		
• stopped. Continuing will cause damage to equipment (in case of poor result, candidate does not pass)	0		
F. Carries out two hoisting movement simultaneously when hoisting pile a pile section or steel tube			
• good	18		
• adequate	10		
• poor (in case of poor result, candidate does not pass)	0		
G. Following semaphores as a driver			
• adequate machine movement and calmly and timely	18		
• adequate machine movement and in a hurry	10		
• two inadequate machine movements and in a hurry (in case of poor result, candidate does not pass)	0		
H. Candidate can autonomously name the points of attention for driving at the construction site Namely: good view on driving track or with assistance. Driving on slope . start a straight driving lane or turn			
• good	18		
• adequate	10		
• poor (in case of poor result, candidate does not pass)	0		
I. Understanding of the work works in accordance with health & safety, environment and safety regulations insight and knowledge of the work activities shows independence and initiative			
• - good			
• - adequate			
• - poor			

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7.Task: “Working with the hammer” Operating pile driver As a driver, carries out the following actions correctly and safely (after taking up the pile and moving it to position, see ACTIVITY 8): The candidate may be granted an intermediate valuation for certain parts of the exam.	Point system		
	NL	DE	EU
A. When asked, candidate can indicate how crane mats must be positioned: forward inclined piles backwards inclined piles			
• yes	5		
• no	0		
B. The prefab concrete hoists (piling leader 3° forward.			
• good	5		
• adequate	3		
• poor	0		
C. Positioning a diesel block on a pile (piling pole 2nd forward)			
• good	5		
• adequate	3		
• poor	0		
D. Enclosing the pile (piling pole 2nd backwards)			
• good	5		
• adequate	3		
• poor	0		
E. Pivoting/driving, also on a slope (position of the piling pole)			
• good	9		
• adequate	5		
• poor	0		
F. Set the piling pole vertically			
• good	5		
• adequate	3		
• poor	0		
G. Placing the pile on a designated stake (piling pole vertical)			
• good	7		
• adequate	4		
• poor	0		

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H. H Taking the pile from the rack/lay it down.			
• good	5		
• adequate	3		
• poor	0		
•			

This task is to be completed in approximately 35 minutes

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8. Task: "Installing H-beam and filling borehole with concrete".	Point system		
	NL	DE	EU
<p>Drilling rig specifications:</p> <p>The machine provided is rigged with full Kelly drilling equipment for drilling a cased borehole.</p> <p>For backfilling the borehole, an H-beam, a concrete hopper, as well as fill material (concrete) and lifting accessories are provided.</p>			
<u>Assessment criteria</u>			
During the execution of the task, the following criteria are assessed by the examiners:			
<u>Procedure for placing the concrete</u>			
Establish the procedure for lifting and placing the H-beam in the borehole and filling the borehole with concrete, as well as the individual work steps to be carried out and discuss and agree these with the banksman and slinger		10	
<ul style="list-style-type: none"> • Give a brief presentation of the agreed procedure to the examiners (who will make corrections if necessary). • 		10	
<ul style="list-style-type: none"> • Procedure for installing the pile reinforcement (H-beam) • 		10	
<ul style="list-style-type: none"> • Assess the working platform, check whether the load-bearing capacity has been affected by the drilling operations • 		10	
<ul style="list-style-type: none"> • Fill the borehole, extract and store the casings. • 		10	
<ul style="list-style-type: none"> • All tools and auxiliary equipment is to be placed in a safe and stable position. • 		10	
<ul style="list-style-type: none"> • When filling the borehole (with concrete), ensure that the overall center of gravity of the machine is kept as low as possible (e.g. move height-adjustable components to the lowest position). • 		10	
<ul style="list-style-type: none"> • The banksman / signaler has to be constantly in the machine operator's field of vision during filling (concreting) and extracting (casings). When not in clear view, movements must not be carried out. 		10	
<ul style="list-style-type: none"> • Caution and oversight by the machine operator when moving and during lifting • operations. 		10	
<ul style="list-style-type: none"> • Start travelling, steering and operational manoeuvres only when they do not endanger personnel. For areas which are not in the field of vision, a signaler is required • 		10	

This task is to be completed in approximately 45 minutes

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9. Task: "Procedure for extracting and removing driving elements".	Point system		
	NL	DE	EU
<p>Pile driving rig and extractor specifications: The machine provided is rigged with a hydraulic vibrator for extracting sheet piles Sheet piles are to be extracted and stored securely</p>			
<u>Assessment criteria</u>			
During the execution of the task, the following criteria are assessed by the examiners:			
<u>Extracting sheet piles / H-beams</u>			
<ul style="list-style-type: none"> Establish the procedure for extracting the driving elements and establish the individual work steps to be carried out 		10	
<ul style="list-style-type: none"> Give a brief presentation of the agreed procedure to the examiners (who will make corrections if necessary). 		10	
<ul style="list-style-type: none"> Discuss and agree with banksman/slinger the procedure for the work to be carried out 		10	
<ul style="list-style-type: none"> Assess the working platform, check whether the load-bearing capacity has been affected by the piling operations 		10	
<ul style="list-style-type: none"> Brief slinger on how to operate the clamp by using remote control and the use of toggle sheet-pile chain 		10	
<ul style="list-style-type: none"> Procedure for transferring load of the sheet pile safely from the clamp to the hoisting 		10	
<ul style="list-style-type: none"> When laying down the extracted sheet piles, ensure to keep the overall center of gravity of the machine as low as possible (e.g. move height-adjustable components to the lowest position) 		10	
<ul style="list-style-type: none"> The banksman/slinger has to be constantly in the machine operator's field of vision during extraction operations. When not in clear view, movements must not be carried out 		10	
<ul style="list-style-type: none"> Caution and oversight by the machine operator when moving, extracting and lifting 		10	
<ul style="list-style-type: none"> When maneuvering the machine, movements may only be carried out with the help of a signaler. 		10	

This task is to be completed in approximately 45 minutes

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	Point system		
	NL	DE	EU
<p>10. Task: "Procedure for moving to a higher working platform".</p> <p>Drilling rig specifications: The machine provided is rigged with full Kelly drilling equipment for the construction of a cased borehole with a section of drill casing attached to the rotary drive and a drilling tool attached to the Kelly bar (inside casing section). The machine is to be moved via a ramp to a new working platform which is about 2 meters higher and set up over a new pile position.</p>			
<u>Preparations for moving</u>			
During the execution of the task, the following criteria are assessed by the examiners:			
<ul style="list-style-type: none"> Assess the suitability (i.e. gradient, load-bearing capacity and stability) of the ramp and the adjoining working platform. Establish the procedure for attaching components in accordance with the equipment manufacturer's operating instructions and determine the individual work steps to be carried out. Discuss and agree the assignment of tasks with banksmen and riggers. Short presentation of the agreed procedure to the examiners (who will make corrections if necessary). 		10	
<ul style="list-style-type: none"> Remove any accessories casing sections and drilling tools still attached to the casing drive adapter 		10	
<ul style="list-style-type: none"> Position all height-adjustable front-end equipment as specified by the operating instructions in order to keep the overall center of gravity of the machine as low as possible 		10	
<ul style="list-style-type: none"> When moving, assign two signalers as far as possible to watch the crawler carriages and the mast 		10	

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<u>Moving the machine</u>			
<ul style="list-style-type: none"> When travelling onto the ramp, align the mast forwards (uphill) parallel to the crawler carriage 		10	
<ul style="list-style-type: none"> Approach the slope of the ramp with a vertically aligned mast, but start lowering the mast slowly as soon as moving onto the ramp (start of the slope) 		10	
<ul style="list-style-type: none"> Travel up the slope in as continuous an operation as possible at a slow speed. Avoid jerky movements and under no circumstances slew the upper carriage 		10	
<ul style="list-style-type: none"> Signalers have to remain in the machine operator's field of vision throughout the move; when not in clear view, the moving operation must be stopped immediately. Caution and oversight by the machine operator during the entire moving process 		10	
<ul style="list-style-type: none"> When reaching the apex of the ramp, approach the tipping point of the crawler carriage with extreme caution. Align mast vertically only when the crawler carriage is adequately supported 		10	

This task is to be completed in approximately 45 minutes

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Practical Exam

	Point system		
	NL	DE	EU
<p>11. Task: "Procedure for moving to a higher working platform".</p> <p>Pile driving rig and extractor specifications: The machine provided is rigged with a hydraulic vibrator, no other components (driving elements etc.) are attached to the machine</p> <p>The machine is to be moved securely via a ramp to a working platform which is around 2 meters higher and set up there over a new pile position.</p>			
<u>Preparations for moving</u>			
During the execution of the task, the following criteria are assessed by the examiners:			
<ul style="list-style-type: none"> Assess the suitability (i.e. gradient, load-bearing capacity and stability) of the ramp and the adjoining working platform. Establish the procedure for attaching components in accordance with the equipment manufacturer's operating instructions and determine the individual work steps to be carried out. Short presentation of the agreed procedure to the examiners (who will make corrections if necessary) 		10	
<ul style="list-style-type: none"> Discuss and agree the assignment of tasks with banksmen and riggers. 		10	
<ul style="list-style-type: none"> Assess the suitability of the ramp and the adjoining working platform 		10	
<ul style="list-style-type: none"> Position all height-adjustable front-end equipment as specified by the operating instructions in order to keep the overall center of gravity of the machine as low as possible. 		10	
<ul style="list-style-type: none"> When moving, assign two signalers as far as possible to watch the crawler carriages and the mast. 		10	

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<u>Moving the machine</u>	Point system		
	NL	DE	EU
<ul style="list-style-type: none"> • When travelling onto the ramp, align the mast forwards (uphill) parallel to the crawler carriage • 		10	
<ul style="list-style-type: none"> • Approach the slope of the ramp with a vertically aligned mast, but start lowering the mast slowly as soon as moving onto the ramp (start of the slope). 		10	
<ul style="list-style-type: none"> • Travel up the slope in as continuous an operation as possible at a slow speed. Avoid jerky movements and under no circumstances slew the upper carriage 		10	
<ul style="list-style-type: none"> • Signalers have to remain in the machine operator's field of vision throughout the move; when not in clear view, the moving operation must be stopped immediately. Caution and oversight by the machine operator during the entire moving process 		10	
<ul style="list-style-type: none"> • When reaching the apex of the ramp, approach the tipping point of the crawler carriage with extreme caution. Align mast vertically only when the crawler carriage is adequately supported. • • 		10	

This task is to be completed in approximately 45 minutes

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12. Task: "Leaving the machine".	Point system		
	NL	DE	EU
<i>The candidate may be granted an intermediate valuation for certain parts of the exam.</i>			
A. When asked, candidate can tell how work activities should be terminated			
• the engine is stopped after a responsible cooling down	3		
• the engine is stopped directly	0		
B. When asked, candidate can explain how the machine should be left.			
• the machine's parking brake is applied, main circuit switch off, locking pin and	3		
• stabilisers retracted, boom down, hook fixed, keys out of ignition and lock	1		
• the machine is left while only some of the actions were taken the machine is not being locked; keys not taken, etc	0		
C. When asked, candidate can that at the end of the day/work activities and filling the tank should be done			
Yes	2		
no	0		

This task is to be completed in approximately 5 minutes

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Practical Exam

13. Task: "Dismantling the machine and loading it onto the transport vehicle".	Point system		
	NL	DE	EU
<p>Drilling / pile driving rig and extractor specifications:</p> <p>The machine is provided rigged with a complete set of drilling and / or pile driving equipment</p> <p>The machine is to be dismantled in accordance with the manufacturer's operating instructions and driven onto the transport vehicle.</p>			
<u>Assessment criteria</u>			
During the execution of the task, the following criteria are assessed by the examiners			
<u>Preparing the machine for unloading</u>			
<ul style="list-style-type: none"> Establish the procedure for dismantling and loading in accordance with the equipment manufacturer's operating instructions and determine the necessary individual work steps to be carried out. Give a brief presentation of the arranged procedure to the examiners (who will make corrections if necessary). 		5	
<ul style="list-style-type: none"> Dismantle the components in accordance with the manufacturer's instruction manual 		5	
<ul style="list-style-type: none"> Dismantle the parts of the base carrier that must be removed for transport purposes (extent and sequence in accordance with the manufacturer's operating instructions). 		5	
<ul style="list-style-type: none"> Procedure for dismantling (assessment similar to that for assembly) 		5	
<ul style="list-style-type: none"> Assess the suitability of the load-bearing capacity, gradient and size of the loading deck of the transport vehicle as well as the access route for suitability. 		5	
<ul style="list-style-type: none"> Before loading: measure the width of the loading deck and check it complies with the manufacturer's operating instructions (minimum bearing area as a general rule is "outside edge of the track rollers of the crawler frames"). 		5	

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<ul style="list-style-type: none"> • Check with the driver of the transport vehicle whether the loading deck has to be supported during loading 		5	
<ul style="list-style-type: none"> • Assess suitability of the loading ramps for driving the machine onto (width, gradient, spacing, securing of ramps). 		5	
<ul style="list-style-type: none"> • Check with the driver of the transport vehicle the lifting accessories and lashing points for the machine on the loading deck for suitability and adequate load bearing capacity. 		5	
<ul style="list-style-type: none"> • Ensure compliance with the manufacturer's operating instructions in preparation for transport readiness (upper carriage parallel to the crawler carriage, no slewing of the upper carriage, folded-down mast aligned in the direction of travel and parallel to crawler carriage, crawler frames retracted, retractable undercarriage retracted, mast position during travelling up the ramps etc.). 		5	
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<u>Loading the machine</u>			
<ul style="list-style-type: none"> • Discuss and agree the loading procedure, hand signals and position of the signalers before the start of the loading operation. 			
<ul style="list-style-type: none"> • No slewing of the upper-carriage as soon as travelling onto the loading ramps, engage lock pin in swing gear 			
<ul style="list-style-type: none"> • Before driving the machine onto the transport vehicle, the mast is to be aligned in or opposing the direction of travel in accordance with the requirements in the manufacturer's operating instructions. Slewing of the upper-carriage after driving up is not permitted (risk of overturning). 			
<ul style="list-style-type: none"> • When moving the machine, attention is to be paid to the exact longitudinal movement of the crawler tracks on the loading deck 			
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This task is to be completed in approximately 60 minutes

Serious mistakes (ko)

Handling sheet piles without extra secure system is prohibited

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Practical Exam

14. Task: "Leaving the machine". Maintenance pile driver/foundation equipment The candidate may be granted an intermediate valuation for certain parts of the exam	Point system		
	NL	DE	EU
A. BOOMS/STABILISERS			
<ul style="list-style-type: none"> ✓ construction ✓ mounting ✓ cylinders ✓ stabilizer foot/-plate/-partition 			
Good	8		
Adequate	4		
poor	0		
B. Equalizing TOR			
<ul style="list-style-type: none"> ✓ construction ✓ frame attachment ✓ bolt/pin connection ✓ disks 			
Good	3		
Adequate	2		
poor	0		
C. Frame			
<ul style="list-style-type: none"> ✓ construction ✓ frame attachment ✓ bolt/pin connection ✓ disks ✓ adjusting device 			
Good	3		
Adequate	2		
poor	0		

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D. Leaders			
<ul style="list-style-type: none"> ✓ construction ✓ frame attachment ✓ sheaves ✓ lifting cat ✓ horizontal sliding table ✓ platform ✓ pile clamp 			
Good	8		
Adequate	4		
poor	0		
E. Winches			
<ul style="list-style-type: none"> ✓ points of attention here are: hammer, boom, pile and pile point winch ✓ hydraulic/mechanical ✓ connection ✓ brake system ✓ cylinder ✓ power load lowering 			
Good	3		
Adequate	2		
poor	0		
F. Hammers			
<ul style="list-style-type: none"> ✓ Hydraulic ✓ pile cap ✓ dolly ✓ Diesel hammer 			
Good	8		
Adequate	4		
poor	0		
G. When asked, the candidate can explain how a daily or weekly lubrication and inspection is to be carried out on the			
<ul style="list-style-type: none"> ✓ Dolly ✓ Foundation equipment 			
Yes	2		
no	0		

This task is to be completed in approximately 20 minutes

Examiner practical exam

For the practical exam, an examiner is appointed by the exam institution.

The examiner is responsible for assessing whether, and to what extent, the candidate's knowledge, skills and attitude meet the requirements for passing the exam. To this end, the examiner will apply the TCVT examiners instruction and the TCVT Assessment Protocol at all times during the preparation, execution and assessment of a TCVT exam.

In the case of an exam with more than one examiner, one of the examiners is appointed as chairman and from that capacity is responsible for the proper conduct of the exam and the completion thereof.

The examiner is expected to:

- Understand the impact an exam situation has on the behaviour of the candidates, and create an optimal climate for the candidate, so that knowledge and experience, insight, skills and attitude are as good as possible, and
- Deal correctly with candidates and all other persons who are functionally present at the exam;
- Give an objective assessment of the knowledge and insight of the candidate;
- Strictly observe the regulations that apply to each exam component;
- Represent the exam institution in a representative manner during the exam and ensure a correct exam progress.

In addition, the following requirements apply to the examiner:

- The examiner has good communication skills.
- The examiner has the ability to act decisively.
- The examiner has sufficient demonstrable knowledge of the examination regulations.
- The examiner is in possession of the valid TCVT person certificate of the certification scheme for which the exam is taken.
- The examiner has at least two years of practical work experience in exercising the position of driver on the relevant crane/machine, gained in the last 7 years before (re)designation by the CAB as examiner for the relevant field (demonstrable via e.g. weekly reports).
- The examiner has up-to-date practical and theoretical demonstrable knowledge of the relevant subject area concerning:
 - Knowledge of the Machinery Directive;
 - Knowledge of inspecting cranes (Dutch Commodities Act Decree and regulation);
 - Knowledge person certification (Dutch Working Conditions Act 7.32 and Working Conditions Regulation 7.6);
 - Knowledge Arbobesluit H7 (Dutch Working Conditions Act);
 - Knowledge of inspecting hoisting and lifting equipment ex TCVT W1-01;
 - Knowledge of the "Arbocatalogus Verticaal Transport";
 - The (re-)designation by the CAB as examiner for the relevant certification scheme has a maximum validity of 2 years.

Re-designation takes place after a successfully completed audit by or on behalf of the CAB.

In addition, the examiner has a note of the annual attendance of:

- A TCVT training day for drivers (including reporting for the CAB), and - an examiner's day for vertical transport organised by or on behalf of the CBI;

A prospective examiner, prior to being appointed as an examiner, runs 3 exams with an experienced examiner. Then he takes his first exam together with an experienced examiner.