

Product title:	Banksman and Slinger Initial Training (previously stage 1)
Product code:	9067
Product type:	OPITO Standard
Product category:	Oil and Gas / Technical Roles
Date of last update:	19/05/2023 - Date of last update field added to product spec

Who is the Product for?

This Product is for personnel wishing to become competent in the Banksman & Slinger role in the energy industry.

What does this Product cover?

This Product aims to equip the learner with the basic knowledge of activities associated with the combined Banksman and Slinger roles, and the safety and regulatory requirements of those activities.

How can you successfully achieve this Product?

To achieve the Banksman and Slinger Initial Training the learner will need to complete the 3 mandatory units.

What could this Product lead to?

Following successful completion of the OPITO Banksman and Slinging Initial Training Programme, the learner can proceed to the workplace to work under direct supervision of a competent person - to complete Banksman and Slinger Workplace Experience Logbook – See supporting document

Please refer to Banksman and Slinging Training and Assessment Framework also.

What are the entry requirements?

Medical entry requirements

Training activities contained within this Product may include physically demanding and potentially stressful elements. All personnel who participate in such activities must be capable of participating fully.

Therefore, OPITO-approved training centres are required, as a minimum, to ensure that prior to participating in practical exercises the learner is declared fit, in that they:

a)Possess an employing company approved medical certificate equivalent to an offshore medical certificate.

OR

b)Undergo medical screening by completing an appropriate medical screening form provided by the OPITOapproved Centre

The OPITO-approved Centre shall keep a record of the learners' declaration(s) of fitness in accordance with their document control policy(s) or procedures. This information, along with summary details of the type of physical activities the learner will be asked to perform, will be given to learners by the OPITO approved Centre and, if applicable, to their sponsoring company as part of the joining instructions. The responsibility for declaring any current or pre-existing medical conditions that could have adverse effects to the individual's state of health while undertaking the training and/or assessment activities lies with the learner and/or company sponsoring the learner. Where doubt exists regarding the fitness of any learner, the OPITO-approved Centre must direct the individual to consult a medical officer familiar with the nature and extent of the training.

Note: Practical exercises must be designed and delivered solely to meet this Product and must not place on the learners any demands other than those required to meet the Product.

Country Specific if applicable?

N/A

How is this Product assessed?

Learners will be assessed against the outcomes specified in accordance with the assessment guidance detailed in each unit.

If a learner is unsuccessful then they will be required to retake the Banksman and Slinger initial training programme

Are there any ratios that must be adhered to for the delivery of this Product?

The maximum number of learners attending this programme is 12.

A minimum of three learners is required to run the course as this would allow for two slingers and one banksman for each practical exercise.

The following ratios indicate the maximum number of learners to be supervised by one instructor at any one time during each activity.

Theory 1:12

Practical 1:6

What are the Guided Learning Hours?

24 hours

There is an approximate ratio of 30% theory to 70% practical.

What staff resources are required to deliver this Product?

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Training Instructors must:

- (a) Fully understand the requirements of this Industry Standard
- (b) Be occupationally competent

(c) Be trained in instructional/evaluation techniques and have proven instructing/teaching experience.

(d) Be included in an ongoing training and development programme, which ensures they are aware and knowledgeable of changes to relevant legislation and industry requirements.

All staff will have the appropriate competencies to conduct or assist with the element of training being undertaken.

Note: During practical exercises, the Instructor cannot also simultaneously perform the role of the Crane Operator.

What facilities and equipment are required to deliver this Product?

Facilities

Facilities may vary depending on approved center locations however training facilities must be of a required standard – see below for details.

Administration arrangements to support learners from booking through registration and assessment to certification

Theory training area(s) so designed to enable each learner to participate fully.

Practical training areas so designed to accommodate the working area of the crane (see C.4 Equipment), the path of the load and to enable each learner to participate fully in the following:

(1)The Banksman's role in a simple pre-slung lift

(2) Preparing a standard load which requires a single leg sling

(3) Preparing a standard load which requires more than one sling

(4)Securing the cargo within a container OR half height using ratchet straps

(5)The Slinger's role during a free access lift, a restricted access lift, a single tubular lift, a bundled tubular lift, a load with an offset centre of gravity, a lift with a cargo carrying unit and a blind lift

(6)The Banksman's role during a free access lift, a restricted access lift, a single tubular lift, a bundled tubular lift, a lift with an offset centre of gravity, a lift with a cargo carrying unit and a blind lift varying the use of hand signals and radio communications

All facilities must be maintained and where appropriate, inspected and tested in accordance with current standards/legislation and manufacturers recommendations.

Equipment

The following lifting equipment, which must be of a type in use regionally in the oil and gas industry, is required to meet the stated content of the Initial Training Programme:

(1)Appropriate PPE (e.g. safety helmets, safety boots, eye protection, gloves, high visibility vest & high visibility gloves)

(2)Crane - Cranes used for the lifting activities associated with the equipment items listed below should be of the pedestal or mobile type and fitted with a boom which is compatible to the operational requirements in the

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training environment in which the crane will be operating and representative of lifting activities in the energy industry.

- (3)Handheld radio set for banksman and crane operator
- (4)Ratchet straps, chain, fibre and wire slings
- (5) Appropriate lifting appliances and accessories
- (6)Tag lines
- (7)Handsfree lifting tools (various types)
- (8)Variety of items to be lifted including:
- (a)Pre-slung load
- (b)Cargo carrying unit
- (c)Pipe bundles / single pipes
- (d)Scaffolding tubes and boards

(9)Suitable cargo as found offshore for securing within a container OR half height using ratchet straps

(10)(Closed door) container OR half height to be used for the ratcheting of cargo

All equipment must be maintained, and where appropriate, inspected and tested in accordance with current standards/legislation, guidance and manufacturers recommendations.

What is the validity of this Product?

2 years

The issue of the Banksman and Slinger Initial Training Certificate indicates that the learner has achieved the minimum level of training as defined by employers and approved by OPITO; it does not imply competence in the Banksman and Slinger role.

Note: The OPITO Banksman and Slinger Workplace Experience Logbook must be completed and OPITO Banksman and Slinger Competence Assessment must be undertaken during this two-year period if the learner wishes to achieve an OPITO-approved Banksman and Slinger certificate of competence.

Please note: If the expiry date on the learners previous certificate is within 3 months prior of the course enrolment date then the date of the new certificate should correspond with the expiry date of the existing/previous certificate unless stated otherwise by the Duty Holder or Asset Owner or Operator.

Product Summary

Product Structure:

To achieve the Banksman and Slinger Initial Training the learner will need to complete the 3 mandatory units.

Unit	Unit Title	
Code	onit ritle	

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	An Introduction to Lifting Operations and the Role and Responsibilities of the Banksman and Slinger (Load Handler)
OIS-240	Lifting Operations by Crane - Theory
OIS-241	Lifting Operations by Crane -Practical

Unit Summary

Unit Code	OIS- 350
Title	An Introduction to Lifting Operations and the Role and Responsibilities of the Banksman and Slinger (Load Handler)
Guided Learning Hours	See GLH at Product level
Assessment Guidance	Centres must ensure that learners receive all theoretical learning specified in each Unit Outcome prior to any practical assessment taking place.
	Centres must also be able to demonstrate that learners have achieved an understanding of the information and concepts detailed in each of the Unit Outcomes. This may be achieved through a variety of methods, including but not limited to: group or individual discussion, verbal or written questioning, scenarios, virtual simulation, and eLearning.
Assessment/Evidence Requirements	Records of assessment referencing all outcomes, must be securely maintained.

OUTCOMES	CRITERIA	
	Relevant regional legislation and 1.1 regulations related to lifting and rigging operations, to include:	
	1.1.1 Employer and employee duties under Health and Safety Regulations	
1 Outcome: Relevant Legislation and Regulations	1.1.2 Regulations for the planning of lifting operations and for the thorough examination and inspection of lifting equipment	
The learner will understand:	1.1.3 Regulations for the maintenance of lifting equipment so that it is in a safe condition and that information, instruction and training is given for its safe use	
	1.1.4 Regulations which require a risk assessment to be undertaken for the lifting operation	
	1.1.5 Why it is important to plan lifting activities	

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		1.1.6 Lifting of personnel by crane for work and transfer purposes
	2.1	Control of work systems, to include: permits, procedures and toolbox talks (TBTs)
	2.2	Principles for initial risk assessment, task risk assessments and specific risk assessments to be conducted
	2.3	Typical Hazards associated with lifting and rigging operations, to include:
		2.3.1 Dropped loads or striking adjacent equipment, structures or machinery from lifting and rigging operations
		2.3.2 Working at heights
		2.3.3 Restricted access working
² Outcome: Hazard Identification and		2.3.4 Working near live electrical equipment and machinery
Controls The learner will understand:		2.3.5 Working near live process equipment and machinery
		2.3.6 Working near or within multiple worksite areas
		2.3.7 Chemical hazards
		2.3.8 Environmental hazards e.g. strong winds, low visibility etc.
		2.3.9 Dynamic forces affecting lifting and rigging operations e.g. FPSO movement
		2.3.10 Hand and finger injuries
		2.3.11 Misuse of equipment used in lifting operations
		2.3.12 Boom load path hazards
		2.3.13 Correct manual handling techniques
		2.3.14 Complacency through repetition of the lifting operation
		2.3.15 How to check that there is adequate access, working space

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	work area 2.3.16 Per equipment operations 2.3.17 Diff methods in handsfree 2.3.18 Hov accessorie lifted 2.3.19 Los and visibili 2.3.20 Cor discuss the assessme responsibi	erent load handling ncluding: tag lines, tools and winch w to protect lifting es and the loads to be s of communications ty ntributing to a TBT to e lifting plan, risk nt and the allocation of lities
3 Outcome: The Role of the Banksman and Slinger The learner will understand:	 3.1 reporting lifting op duties incomplete since 3.1.1 Bar 3.1.2 Slim 3.1.3 Cra 3.1.4 Dec 3.1.5 Cor planning 3.2 Organization lifting operators 3.3 Identifyin hazards 3.4 Deciding communition information inform	hksman nger ane operator ck supervisor mpetent person for lifting operations. tion and planning of erations g and controlling the best methods of cating signals and on clearly to the bersonnel to move the ly (slingers (load o, banks man, crane s) and supply boat nding of the limitations practices when using cessories and

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	3.6	Checking the cargo manifest and reviewing the load
	3.7	Using more than one banksman and the transfer of responsibility for the lift
	3.8	How to hand over effectively during lifting operations
	3.9	Safe positioning of personnel who could be affected by the lifting operation and installing controls i.e. barriers/PA/tannoy
	3.10	Identifying escape routes should a problem develop during the lifting operation
	3.11	The purpose of pre-post use inspection of lifting equipment, lifting accessories and loads to be lifted
	3.12	Maintaining an overview of the lifting operations area and the crane boom area
	3.13	Ensuring that the load is moved at the minimum height necessary to avoid obstacles and locate the load in its final position
	3.14	Giving Instructions to lower the load at its final location in the correct orientation
	4.1	The purpose of high visibility vests and personnel identification
	4.2	How and when to use different communication methods including:
4 Outcome: Communications and Visibility		4.2.1 Hand signals
The learner will understand:		4.2.2 Two-way handheld radios
	4.3	Industry best practice protocols for the different communication methods
	4.4	Lines of communication from slinger to banksman and onto crane operator

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4.5	Definitions of:
	4.5.1 Line of sight
	4.5.2 Blind lift

Unit Code	OIS-240
Title	Lifting Operations by Crane - Theory
Guided Learning Hours	See GLH at Product level
Assessment Guidance	Centres must ensure that learners receive all theoretical learning specified in each Unit Outcome prior to any practical assessment taking place.
	Centres must also be able to demonstrate that learners have achieved an understanding of the information and concepts detailed in each of the Unit Outcomes. This may be achieved through a variety of methods, including but not limited to: group or individual discussion, verbal or written questioning, scenarios, virtual simulation, and eLearning.
Assessment/Evidence Requirements	Records of assessment referencing all outcomes, must be securely maintained.

OUTCOMES	CRITERIA	
	1.1 Common terminology and what each term means, to include:	
	1.1.1 SWL	
	1.1.2 WLL	
	1.1.3 Lifting equipment	
Outcome: The principles of lifting	1.1.4 Lifting appliances	
¹ operations by crane	1.1.5 Lifting accessories	
The learner will understand:	1.1.6 Factors of safety	
	1.1.7 Centre of gravity and balance of the load	
	1.1.8 Load security	
	Load characteristics which effect complexity: very large size, uneven1.2 weight distribution, a fragile load, difficult to access lifting points and dynamic loading	

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The effects of resultant tension on li 1.3 equipment when used at various and and configurations 1.4 How the included angle affects the	-
tension in the sling legs	
1.5 How to assist the crane operator con a swing on a load when lifting blind	ntrol
1.6 Difficulties that might occur during the lifting and moving operations	Ie
1.7 The basic principles of crane operations	
1.8 The commonly used types of cranes and their applications	6
2.1 Pre and post use inspection of lifting equipment and accessories	
2.2 The types of faults that are common lifting accessories	in
Identifying that equipment and 2.3 accessories are certified for use by colour coding and ID numbers	
2.4 The SWL and WLL of lifting equipme and where to find these	ent
2 Outcome: Introduction to Lifting Equipment and Accessories 2.5 The importance of accounting for adverse environmental factors e.g. v strength, poor visibility, icy surfaces how it can affect the lifting operation	and
The learner will understand:The purpose and safe use of differe2.6types of equipment used in lifting operations:	nt
2.6.1 Wire rope slings	
2.6.2 Fibre slings	
2.6.3 Eye bolts and Eye nuts	
2.6.4 Swivel hoist rings	
2.6.5 Master links	
2.6.6 Shackles	
2.6.7 Chain Slings	
2.6.8 Bridles sets	

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	0.0.0 Tea linear winches
	2.6.9 Tag lines, winches
	2.6.10 Handsfree tools (various types and their specific uses)
	2.6.11 The correct method of securing cargo using ratchet straps, to include checking WLL and breaking strain of ratchet straps before fitting.
	Classification of lifts i.e. routine and 3.1 non-routine (simple, complicated, complex)
	3.2 The key steps in plan lifting operations including:
	3.2.1 Assess the weight and cargo
3 Outcome: Planning for Lifting Operations by Crane The learner will understand:	3.2.2 Walk the route (hazard identification and equipment limitations)
	3.2.3 Prepare the landing area
	3.2.4 Select the correct equipment
	3.2.5 Prepare the load
	3.2.6 Trail lift check balance and security. Carry out lift
	3.2.7 Land the load check load stability and release the slings
	3.2.8 Restore the work area and equipment
	3.3 Erecting signs and barriers or posting sentries
	3.4 Possible ricochet or deflection of dropped objects from barriers
	3.5 The purpose of a lifting plan and the key information it contains
	3.6 The importance of establishing escape routes from the work area
	 Various methods and sources of determining the weight of a load – e.g. sourcing data from the manufacturer's manual.
	3.8 How to position and install the lifting equipment for the lifting operation

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3.9	Safe positioning of personnel involved in lifting operations when load handling
3.10	When there is a change to the planned lifting operation the management of change process that must be followed
3.11	The lifting plan and risk assessment prepared by the competent person prior to the work commencing
3.12	Identifying the Banksmen & Slingers for the lift
3.13	Weight identification and estimation of the load using records and other sources of information such as company/manufacturer's manuals
3.14	Ensuring the load to be lifted is within the safe working limit (SWL) of the crane and associated lifting equipment
3.15	Deciding when tag lines need to be used and their safe use
3.16	Where to find the load bearing capacity of a lay down area
3.17	Principles of sling angles and tensions

Unit Code	OIS-241	
Title	Lifting Operations by Crane -Practical	
Guided Learning Hours	See GLH at Product level	
Assessment Guidance	Assessment Guidance for Outcome 1 - 3	
	Centres must ensure that learners receive all theoretical learning specified in each Outcome prior to any practical assessment taking place.	
	Following theoretical learning and demonstration of practical exercises by the centre, learners will be observed undertaking practical exercises covering all the criteria specified.	
	Learners must successfully complete all practical exercises in order to achieve this Unit.	
	Practical Exercises (Outcome 4)	
	All exercises must:	
	(a)Be designed to ensure each learner will participate in the role of the Banksman and in the role of the Slinger (never simultaneously) in all the lifts stated in criteria 4.1 to 4.4 in outcome 4.	

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	(b)Ensure that learners are briefed and debriefed by instructional staff
	(c)Be scenario based
	(d)Ensure that learners are provided with equipment and facilities appropriate to the scenario
	(e)Ensure each learner will participate in slinging all the elements from category A
	Category Elements
	The elements must be mixed up for each of the categories for lifts types stated in criteria 4.1 to 4.4 in outcome 4 so that the learners meet each element at least once.
	Category Elements
	Category A - Pre-slung load, Single sling, more than one sling, attach and use tag lines
	Category B Single tubular, bundled tubulars, cargo carrying, unit scaffold tubes and boards
	Category C Radio, hand signals
Assessment/Evidence Requirements	Records of assessment referencing all outcomes, must be securely maintained.

OUTCOMES	CRITE	ERIA
¹ Outcome: The principles of lifting operations by crane The learner will perform:	1.1	Identification of markings on lifting equipment and accessories
	1.2	Trial lifts
	1.3	The correct method of securing cargo using ratchet straps, to include checking WLL and breaking strain of ratchet straps before fitting
	1.4	Securing cargo within a container/half height using ratchet straps
	1.5	Selecting the correct equipment for task
	1.6	Use appropriate lifting accessories
	1.7	Attaching slings to ensure a safe and even weight distribution
	1.8	Positioning slings on lifting points
	1.9	Positioning slings around loads when lifting points are not available

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	1.10	 Principles of D/D ratios and bar thickness for fibre and wire slings and how to control it with packing to avoid abrasion or spacers to increase the D/D ratio 1.10.1 Ensuring the stability and security of the load before starting to remove slings 1.10.2 Preparing and placing packings to aid the removal of slings 1.10.3 Unhooking and removing slings and disconnection of lifting equipment 1.10.4 Lifting accessories pre and post-use inspections
	2.1	Plan and prepare loads to be lifted
	2.2	Delivering a public address system message that informs the installation that lifting activities are about to commence
	2.3	Erecting signs and barriers or posting sentries to cordon off the work area
Outcome: Carrying out the lifting	2.4	Best practice communication methods and protocols prior to and during lifting activities
 Outcome: Carrying out the lifting operation The learner will perform: 	2.5	Safe body and hand positions during the slinging, lifting and handling of loads
	2.6	Appropriate use of handsfree tools
	2.7	Selecting the appropriate lifting accessories to be attached to the crane and to the load
	2.8	Conducting pre-use checks on the lifting equipment to be used and what to do if any defects are identified
	2.9	Safe methods of connecting and disconnecting the load from lifting equipment and lifting accessories

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	2.10 2.11 2.12	 'Inching' up the load to check the balance and security of the load (trial lift) Ensuring that the load is moved at the minimum height necessary to avoid exceeding the safe range of the equipment and avoiding obstacles and locate the load in its final position Handover procedures if the lift is not complete
	3.1	De-rigging and removing lifting equipment from the lifting operation site
³ Outcome: Restoring the work area and post-operation responsibilities The learner will perform:	3.2	Post-use inspections of lifting equipment
	3.3	Storing various lifting accessories after use to include: How to coil and store reusable slings after use
	3.4	The procedures to follow if any lifting equipment or lifting accessory is found to be damaged
	3.5	The disposal of waste resulting from the lifting activities - in relation to legislation and company procedures.
	3.6	Attending and contributing to a post-job debriefing
	3.7	Leaving the work area clear
	3.8	Conducting post use checks of the lifting accessories, reporting any damage to the equipment or the load
	3.9	Storage procedures for packing materials and the lifting accessories
	3.10	Purpose of a rigging loft and quarantine
4 Outcome: Practical exercises	4.4	
The learner will perform:	4.1	Free access lift

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	(twice – once as banksman and once as a slinger)
4.2	Restricted access lift
	(twice – once as banksman and once as slinger)
4.3	Blind lift
	(twice – once as banksman and once as slinger)
4.4	Lift with a load with an offset centre of gravity
	(twice - Once as banksman and once as slinger)
4.5	Securing cargo for transportation by road or sea

ABOUT OPITO

OPITO is the global, not-for-profit, skills body for the energy industry. For over three decades the company has ensured safety is at the forefront of operations, with more than 375,000 people trained every year.

Links

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