

QUALIFICATIONS PACK - OCCUPATIONAL STANDARDS FOR SPORTS INDUSTRY

What are Occupational Standards(OS)?

- OS describe what individuals need to do, know and understand in order to carry out a particular job role or function
- OS are performance standards that individuals must achieve when carrying out functions in the workplace, together with specifications of the underpinning knowledge and understanding

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Contents

1. Introduction and Contacts.....P.1
2. Qualifications Pack.....P.2
3. OS Units.....P.2
4. Glossary of Key TermsP.3

Introduction

Qualifications Pack – Sports Turf / Field Maintenance Worker

SECTOR: SPORTS PE FITNESS AND LEISURE

SUB-SECTOR: Sports, Fitness and Leisure

OCCUPATION: SPORTS TURF/FIELD MAINTENANCE WORKER

REFERENCE ID: SPF/Q

ALIGNED TO: NIL

Brief Job Description: The individual will perform semi-skilled and skilled labor in connection with the general and specific upkeep and maintenance of the facility and grounds. This is accomplished by managing the turf and lawn, completing landscaping operations such as mowing, weed eating, leaf/debris removal, mulching, watering etc.

Personal Attributes: This job requires the individual to be an active person with ability and stamina to work in the outdoors. This individual in this position should have interest in horticulture and will be expected to work in all weather conditions.

Job Details	Qualifications Pack Code	SPF/Q		
	Job Role	Sports Turf Maintenance Worker		
	Credits (NSQF)	TBD	Version number	1.0
	Sector	Sports PE Fitness and Leisure	Drafted on	15-03-2016
	Sub-sector	Sports, fitness and leisure	Last reviewed on	15-03-2016
	Occupation	Sports Turf Maintenance Worker	Next review date	21-01-2018

Job Role	Sports Club Manager
Role Description	Maintain sports field, lawn, turfs and planted areas
NSQF level	2
Minimum Educational Qualifications*	5 th Class pass
Maximum Educational Qualifications*	Not Applicable
Training (Suggested but not mandatory)	
Experience	No experience required
Minimum Job Entry Age	18 years
Applicable National Occupational Standards (NOS)	<p>Compulsory:</p> <ol style="list-style-type: none"> 1. Plan and undertake maintenance of turf areas 2. Control weed, pest and disease infestations 3. Manage and maintain planted areas, drainage and irrigation system
Performance Criteria	As described in the relevant OS units

Keywords /Terms	Description
Sector	Sector is a conglomeration of different business operations having similar businesses and interests. It may also be defined as a distinct subset of the economy whose components share similar characteristics and interests.
Sub-sector	Sub-sector is derived from a further breakdown based on the characteristics and interests of its components.
Occupation	Occupation is a set of job roles, which perform similar/related set of functions in an industry.
Function	Function is an activity necessary for achieving the key purpose of the sector, occupation, or area of work, which can be carried out by a person or a group of persons. Functions are identified through functional analysis and form the basis of OS.
Job Role	Job role defines a unique set of functions that together form a unique employment opportunity in an organization.
OS	OS specify the standards of performance an individual must achieve when carrying out a function in the workplace, together with the knowledge and understanding they need to meet that standard consistently. Occupational Standards are applicable both in the Indian and global contexts.
Performance Criteria	Performance Criteria are statements that together specify the standard of performance required when carrying out a task.
NOS	NOS are Occupational Standards which apply uniquely in the Indian context.
Qualifications Pack Code	Qualifications Pack Code is a unique reference code that identifies a qualifications pack.
Qualifications Pack	Qualifications Pack comprises the set of OS, together with the educational, training and other criteria required to perform a job role. A Qualifications Pack is assigned a unique qualification pack code.
Unit Code	Unit Code is a unique identifier for an Occupational Standard , which is denoted by an 'N'.
Unit Title	Unit Title gives a clear overall statement about what the incumbent should be able to do.
Description	Description gives a short summary of the unit content. This would be helpful to anyone searching on a database to verify that this is the appropriate OS they are looking for.
Knowledge and Understanding	Knowledge and Understanding are statements which together specify the technical, generic, professional and organizational specific knowledge that an individual needs in order to perform to the required standard.
Organizational Context	Organizational Context includes the way the organization is structured and how it operates, including the extent of operative knowledge managers have of their relevant areas of responsibility.
Technical Knowledge	Technical Knowledge is the specific knowledge needed to accomplish specific designated responsibilities.

National Occupational Standard




Overview

This unit is about planning and undertaking maintenance of turf areas.

National Occupational Standard	Unit Code	SPEFL/
	Unit Title (Task)	Plan and undertake maintenance of turf areas
	Description	This unit is about planning and conducting maintenance work
	Scope	<p>This OS unit/task covers the following:</p> <ul style="list-style-type: none"> Plan and set out sports areas Plan and maintain sports turf areas and facilities for play Plan and ensure the repair and renovation of sports turf area
	Performance Criteria (PC) w.r.t. the Scope	
	Element	Performance Criteria
	Plan and set out sports areas	<p>To be competent, the user/individual on the job must be able to:</p> <p>PC1. Carry out an initial survey which identifies the type, function and required dimensions of the sports area</p> <p>PC2. Produce accurate plans which are consistent with the rules of the sport</p> <p>PC3. Keep positioning and dimensions of the sports area consistent with the rules of the sport and the function, use and safety of the site</p>
	Plan and maintain sports turf areas and facilities for play	<p>PC4. Make sure your maintenance plans are consistent with the purpose and function of the sports turf and any specific requirements</p> <p>PC5. Select the correct tools and equipment to prepare the surface</p> <p>PC6. Use tools and equipment safely and efficiently</p> <p>PC7. Prepare the playing surface so that it meets the requirements of the sport and the standard for the event</p> <p>PC8. Carry out the work so that the grass height and edge trimmings meet specifications</p> <p>PC9. Carry out work in a manner which prevents damage to the surrounding area</p> <p>PC10. Maintain the quality and appearance of surfaces</p> <p>PC11. Make markings which are clear and appropriate to the event</p> <p>PC12. Clean tools and equipment and store them securely</p> <p>PC13. Clear surfaces of unwanted debris, leave the site in a tidy and undamaged condition following operations</p> <p>PC14. Assess the results of maintenance operations, ensuring the agreed objectives and standards have been achieved</p> <p>PC15. Monitor maintenance operations so as to minimise risk to the public and operators</p> <p>PC16. Maintain effective working relations with all relevant people throughout</p> <p>PC17. Keep unnecessary waste and unwanted impact on the environment to a minimum</p>

<p>Plan and ensure the repair and renovation of sports turf areas</p>	<p>PC18. Ensure plans are consistent with the purpose and function of the sports turf and the standards and objectives of repair and renovation</p> <p>PC19. Inspect surfaces as required</p> <p>PC20. Identify and assess surfaces in need of renovation and repair</p> <p>PC21. Select renovation and repair methods that are appropriate to the damage and the type of sports surface</p> <p>PC22. Select tools and equipment that are suitable for the repair job</p> <p>PC23. Use tools and equipment safely and efficiently</p> <p>PC24. Prepare the surface and use the selected renovation and repair methods safely and correctly</p> <p>PC25. Reinstall the surface so that it meets the requirements of the sport and the standard of the event</p> <p>PC26. Clean and store equipment securely and correctly</p> <p>PC27. Assess the results of repair and renovation operations, ensuring that agreed objectives and standards have been achieved</p>
<p>Knowledge and Understanding (K)</p>	
<p>A. Organizational Context (Knowledge of the company / organization and its processes)</p>	<p>The user/individual on the job needs to know and understand:</p> <p>KA1. The factors influencing the positioning of sports areas within the total area available</p> <p>KA2. The principles and application of risk assessment</p> <p>KA3. What waste and adverse environmental impact may occur and how to minimise these</p> <p>KA4. The statutory health and safety requirements and codes of practice relevant to this area of work</p> <p>KA5. The principles of identifying turf's pathological and physiological disorders</p> <p>KA6. The principles and techniques relating to the effects, choice and application of fertilisers</p> <p>KA7. The methods of monitoring and assessing the effects of sports turf management</p> <p>KA8. The considerations relating to the timing of operations.</p> <p>KA9. The factors affecting the type and extent of repairs</p> <p>KA10. The methods of assessing results of repair operations</p> <p>KA11. The principles and methods of protecting repairs and renovations as necessary</p> <p>KA12. What risks to the public may be present during repair and renovation activities and how to minimise these</p> <p>KA13. What waste and adverse environmental impact may occur and how to minimise these</p>
<p>B. Technical Knowledge</p>	<p>The user/individual on the job needs to know and understand:</p> <p>KA14. The sources of information on standard sports dimensions.</p> <p>KA15. The factors influencing the choice and use of marking equipment and materials</p> <p>KA16. The purposes and functions of sports turf and affects of maintenance</p>

	<p>KA17. Consideration of soil types and condition in relation to sports turf management</p> <p>KA18. Considerations relating to choice of mowing regimes and other maintenance operations</p> <p>KA19. The considerations of soil type and condition in relation to repair and renovation</p> <p>KA20. The variety of equipment to be used in such operations and how to ensure the effective maintenance of such equipment. Use of tools and equipment: hand tools; powered equipment</p> <p>KA21. Methods to prepare the surface :</p> <ul style="list-style-type: none"> Mowing; Irrigation; Scarifying and verticutting; Rolling; Top dressing; Brushing or switching; Aeration; Edging; Feeding; Marking out sports surface <p>KA22. Aspects of the standard for the surface:</p> <ul style="list-style-type: none"> Speed; Surface response to a ball, animal or player Moisture content; Grass cover; Degree of consolidation; Trueness <p>KA23. Renovation and repair methods:</p> <ul style="list-style-type: none"> Over-seeding; Hand lifting; Patching or plugging; Forking up; Top dressing; Divotting 
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Skills (S)	
A. Core Skills/ Generic Skills	Reading and Writing Skills
	The user/ individual on the job needs to know and understand how to: <ul style="list-style-type: none"> SA1. Read standard sports dimensions SA2. Assess soil types and their conditions SA3. Statutory health and safety requirement
	Oral Communication (Listening and Speaking skills)

	<p>The user/individual on the job needs to know and understand how to:</p> <p>SA4. Fulfil the job role including questioning techniques, active listening, clarifying information and consulting with supervisors as required</p> <p>SA5. Consult with relevant personnel to implement review recommendations</p>
B. Professional Skills	Decision Making
	<p>The user/individual on the job must be equipped to decide:</p> <p>SA6. The type of equipment that should be used</p> <p>SA7. Identify any turf disorders</p> <p>SA8. Identify soil condition</p>
	Plan and organize
	<p>The user/individual on the job needs to know and understand how to:</p> <p>SA9. Develop and implement a work plan for the maintenance work to be undertaken within appropriate timelines</p> <p>SA10. Develop the work plan with consideration of timings (when the turf is available for maintenance work)</p>
	Customer Centricity
	NA
	Problem Solving
	<p>SA11. Plan the maintenance work according to routine or specific requirements</p> <p>SA12. Assess risk factors</p> <p>SA13. Assess outcomes against initial objectives</p>
	Analytical Thinking
	<p>SA14. Reasons for undertaking the maintenance work</p> <p>SA15. Risk-analysis processes to evaluate the risk and possible environmental impact</p>

NOS Version Control

NOS Code	SPF/		
Credits(NSQF)	TBD	Version number	1.0
Industry	Sports PE Fitness and Leisure	Drafted on	15/03/2016
Industry Sub-sector	Sports, Fitness and Leisure	Last reviewed on	15/03/2016
Occupation	Sports Turf Maintenance Worker	Next review date	14/03/2018



National Occupational Standard



Overview

This unit is about controlling weed, pest and disease infestations.

Unit Code	SPEFL
Unit Title (Task)	Control weed, pest and disease infestations
Description	This OS unit is about assessing and monitoring weed, pest and/or disease control programs and covers the process of planning for the control of weed, pests and/or disease.
Scope	The OS unit/ task covers the following: <ul style="list-style-type: none"> • Assess weed, pest and/or disease infestations • Implement and monitor weed, pest and/or disease control strategies • Identify requirements of chemical application/ spray
Performance Criteria (PC)	
Element	Performance Criteria
Assess weed, pest and/or disease infestations	To be competent, the user/individual on the job must be able to: <p>PC1. Assess materials and equipment requirement for the assessment and coordinate and schedule the same according to the prepared plan.</p> <p>PC2. Assess the procedures and tools to be used, the kind of records that are to be taken, and any potential hazards that might be faced; clearly communicate to concerned operational personnel.</p> <p>PC3. Observe and collect data according to the requirements of the implementation plan.</p> <p>PC4. Assess the size and scope of any infestations, and the potential impact on plant growth.</p> <p>PC5. Select treatments for the infestation from the options detailed in the Pest Management plan.</p>
Implement and monitor weed, pest and/or disease control strategies	<p>PC6. Undertake control operations in a manner which ensures that potential negative environmental impacts are minimised or eliminated, including the proper disposal of containers and drums if used.</p> <p>PC7. Occupational Health and Safety (OHS) hazards are identified, assessed, and responsible action taken throughout the control operations.</p> <p>PC8. Any documentation that is required to be kept by either the organisation or OHS guidelines is completed clearly and accurately.</p> <p>PC9. Communicate regularly with operational staff and any contractors to ensure smooth operation and progress.</p> <p>PC10. Monitor the impact of control operations regularly</p> <p>PC11. Take Initiative where any corrective action or amendment to the implementation plan is required.</p> <p>PC12. Remove all waste materials and substances from site and store or dispose of</p>

	responsibly.
<p>Identify requirements of chemical application/ spray and implement</p>	<p>PC13. Assess the need for chemical use as an option within an integrated pest management strategy.</p> <p>PC14. Assess risks associated with proposed control strategy.</p> <p>PC15. Select preferred control procedures.</p> <p>PC16. Ensure that the correct chemicals and equipment is selected in accordance with the application/spray plan.</p> <p>PC17. Ensure that pre-operational checks of application equipment are carried out.</p> <p>PC18. Check to ensure that calibration conforms to the requirement of the application/spray plan.</p> <p>PC19. Coordinate with other operational staff to ensure that meteorological/ weather conditions are monitored and assessed during application where relevant.</p> <p>PC20. Consult supervisor immediately in the event of a chemical spill.</p> <p>PC21. Ensure all record keeping process is followed and completed.</p>
<p>Knowledge and Understanding (K)</p>	
<p>A. Organizational Context (Knowledge of the company / organization and its processes)</p>	<p>KB1. The user/individual on the job needs to know and understand:</p> <p>KB2. Identify hazards and implement safe work practices</p> <p>KB3. Interpret monitored information on pest and weed numbers, density and control</p> <p>KB4. Plan and schedule weed, pest and/or disease control including amending plans during the operations</p> <p>KB5. Recognise poor growth and lack of vigour caused by nutrient deficiency</p> <p>KB6. Observe, identify and react appropriately to environmental implications and Organisational Health and safety (OHS) hazards</p> <p>KB7. Processes to minimise noise, odours, and debris from weed, pest and/or disease control operations.</p> <p>KB8. Adequate information relating to chemical use including guidelines and regulations</p> <p>KB9. Hazard identification and risk assessment strategies</p> <p>KB10. Transport, handling and storage for chemicals</p> <p>KB11. Requirements for disposal of excess chemicals, clearing spillages and equipment clean up</p>
<p>B. Technical Knowledge</p>	<p>The user/individual on the job needs to know and understand:</p> <p>KB12. Pest and weed species, including their life cycles and reproduction/ multiplication capability</p> <p>KB13. Integrated pest and weed management techniques</p> <p>KB14. Effects on plants of weeds, pests and/or diseases, including competitive effects</p>

SPF/ N

Control weed, pest and disease infestations

	<p>on plant growth; threshold levels; and the effects of alternative methods of control</p> <p>KB15. Plant physiology</p> <p>KB16. Organisational Health and Safety Standards, contractor engagement, chemical use and application, and environmental legislation, codes of practice and enterprise procedures</p> <p>KB17. Environmental controls and codes of practice applicable to the weed, pest and/or disease control operations</p> <p>KB18. Use of agricultural chemicals like insecticides, fungicides, herbicides, bactericides, algacides, biologicals, nematocides, rodenticides, antimicrobial agents, anthelmintics, fumigants</p> <p>KB19. Risk factors including human health, weather, spray drift, spillage, residue, product integrity and environmental</p>
Skills (S)	
A. Core Skills/ Generic Skills	Reading and Writing Skills
	<p>SA1. Use literacy skills to read, interpret and follow organisational policies and procedures</p> <p>SA2. Record accurately and legibly information collected and select and apply procedures to the range of tasks</p>
	Oral Communication (Listening and Speaking skills)
	<p>The user/individual on the job needs to know and understand how to:</p> <p>SA3. Use oral communication skills/language competence to fulfil the job role as specified by the organisation including questioning, active listening, asking for clarification, negotiating solutions and responding to a range of views</p> <p>SA4. Consult supervisor in case of chemical spill</p>
B. Professional Skills	Decision Making
	NA
	Plan and organize
	<p>The user/individual on the job needs to know and understand how to:</p> <p>SB1. Plan and organize truf health assessment</p> <p>SB2. Plan and organize control measures in case of weed, pest and disease infestations</p> <p>SB3. Plan resources and equipment necessary for various operations</p>
	Customer Centricity
	NA
Problem Solving	

SPF/ N

Control weed, pest and disease infestations

	SB4. Ability to identify weed, pest and implement appropriate control measures
	Analytical Thinking
	SB5. Estimate, calculate and record routine and more complex workplace measures and data



NOS Version Control

NOS Code	SPF/		
Credits(NSQF)	TBD	Version number	1.0
Industry	Sports PE Fitness and Leisure	Drafted on	15/03/2016
Industry Sub-sector	Sport, Fitness and Leisure	Last reviewed on	15/03/2016
Occupation	Sports Turf Maintenance Worker	Next review date	14/03/2018

National Occupational Standard



Overview

This unit is about managing and maintaining planted areas, drainage and irrigation systems.

National Occupational Standard	Unit Code	SPF
	Unit Title (Task)	Manage and maintain planted areas, drainage and irrigation systems
	Description	This OS unit is about maintaining planted areas in an attractive and healthy condition and maintaining the efficient working of drainage and irrigation systems.
	Scope	The unit/ task covers the following: <ul style="list-style-type: none"> • Plan and ensure maintenance of planted areas • Plan and ensure the renovation of planted areas • Maintain drainage systems • Maintain irrigation systems
	Performance Criteria (PC)	
	Element	Performance Criteria
	Plan and ensure maintenance of planted areas	To be competent, the user/individual on the job must be able to: <p>PC1. Ensure plans are consistent with the purpose, function, standards and objectives of planted areas</p> <p>PC2. Carry out maintenance operations to the planted area as planned</p> <p>PC3. Assess the results of maintenance operations, ensuring objectives, standards and safety requirements have been achieved</p> <p>PC4. Leave the site in an undamaged and tidy condition following operations</p> <p>PC5. Maintain effective working relations with relevant people throughout</p> <p>PC6. Keep unnecessary waste and unwanted impact on the environment to a minimum</p> <p>PC7. Deal with problems effectively, efficiently and safely</p>
	Plan and ensure the renovation of planted areas	<p>PC8. Ensure plans are consistent with the purpose, function, renovation standards and objectives of planted areas</p> <p>PC9. Carry out renovation operations as planned</p> <p>PC10. Assess the results of renovation operations, ensuring agreed objectives, standards and safety requirements have been achieved</p> <p>PC11. Keep the site in an undamaged and tidy condition following operations</p> <p>PC12. Keep unnecessary waste and unwanted impact on the environment to a minimum</p> <p>PC13. Deal with problems effectively, efficiently and safely</p>

SPF/

Manage and maintain planted areas, drainage and irrigation system

<p>Maintain drainage systems</p>	<p>PC14. Inspect and assess drainage systems according to agreed schedules PC15. Identify any problems with drainage systems PC16. Take action to restore drainage systems to full effectiveness PC17. Record inspections and work undertaken PC18. Keep surroundings in a tidy and undamaged condition following operations PC19. Maintain effective working relations with all relevant people throughout PC20. Keep unnecessary waste and unwanted impact on the environment to a minimum</p>
<p>Maintain irrigation systems</p>	<p>PC21. Inspect and assess irrigation systems and surfaces according to agreed schedules PC22. Identify problems with irrigation systems and arrange repairs PC23. Record inspections clearly, accurately and promptly PC24. Keep surroundings in a tidy and undamaged condition following operations PC25. Maintain effective working relations with all relevant people throughout PC26. Keep unnecessary waste and unwanted impact on the environment to a minimum</p>
<p>Knowledge and Understanding (K)</p>	
<p>C. Organizational Context (Knowledge of the company / organization and its processes)</p>	<p>The user/individual on the job needs to know and understand: KA1. Principal purposes and functions of planted areas in amenity settings KA2. Principles of renovating plants to maximise their amenity value KA3. Purposes of the range of operations used in renovation and why the selected ones have been used KA4. Principles and methods of pruning and its effects on plant growth KA5. Principles governing the effects of pruning on woody and herbaceous plants KA6. Significance of growing habits for timing and method of pruning KA7. Assessment of requirements for maintenance operations KA8. Principles and application of risk assessment KA9. Possible adverse environmental impact when maintaining planted areas and how to avoid this KA10. Typical problems that may occur and how to deal with these effectively KA11. Statutory health and safety requirements and codes of practice relevant to the management of planted areas KA12. Potential sources of waste and adverse environmental impact and how these can be minimised</p>

SPF/

Manage and maintain planted areas, drainage and irrigation system

<p>D. Technical Knowledge</p>	<p>The user/individual on the job needs to know and understand:</p> <p>KB1. Planted area: shrub areas, scrub, bedding, herbaceous, hedges, amenity turf</p> <p>KB2. Maintenance operations: pruning, feeding, weed control, mulching, soil amelioration, removal and replacement of plants, mowing</p> <p>KB3. Methods of analysing soil condition and nutritional status</p> <p>KB4. Symptoms of nutritional deficiency</p> <p>KB5. Effects of the main macro and micro nutrients on plant health and growth</p> <p>KB6. Effects of pollutants, climatic conditions and soil/water relations on plant growth</p>
<p>Skills (S)</p>	
<p>A. Core Skills/ Generic Skills</p>	<p>Reading and Writing Skills</p> <p>The user/individual on the job needs to know and understand how to:</p> <p>SA1. Use literacy skills to read, interpret and follow organisational policies and procedures</p> <p>SA2. Record accurately and legibly information collected and select and apply procedures to the range of tasks</p> <p>Oral Communication (Listening and Speaking skills)</p> <p>The user/individual on the job needs to know and understand how to:</p> <p>SA3. Use oral communication skills/language competence to fulfil the job role as specified by the organisation including questioning, active listening, asking for clarification, negotiating solutions and responding to a range of views</p>
<p>C. Professional Skills</p>	<p>Decision Making</p> <p>NA</p> <p>Plan and organize</p> <p>The user/individual on the job needs to know and understand how to:</p> <p>SB1. Plan and organize maintenance work as per schedule</p> <p>SB2. Coordinate maintenance work with other staff as per the requirement</p> <p>Customer Centricity</p> <p>NA</p> <p>Problem Solving</p> <p>SB3. Ability to identify any problems in drainage and irrigation systems and address it accordingly</p> <p>Analytical Thinking</p> <p>NA</p>

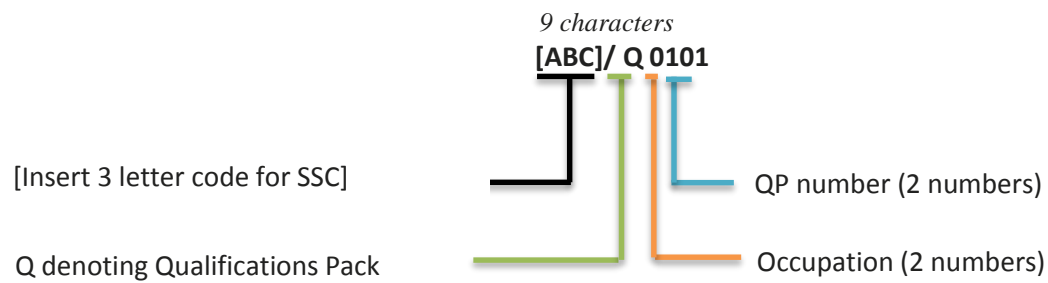
NOS Version Control

NOS Code	SPF/		
Credits(NSQF)	TBD	Version number	1.0
Industry	Sports PE Fitness and Leisure	Drafted on	15/03/2016
Industry Sub-sector	Sport, Fitness and Leisure	Last reviewed on	15/03/2016
Occupation	Sports Turf Maintenance Worker	Next review date	14/03/2018

Annexure

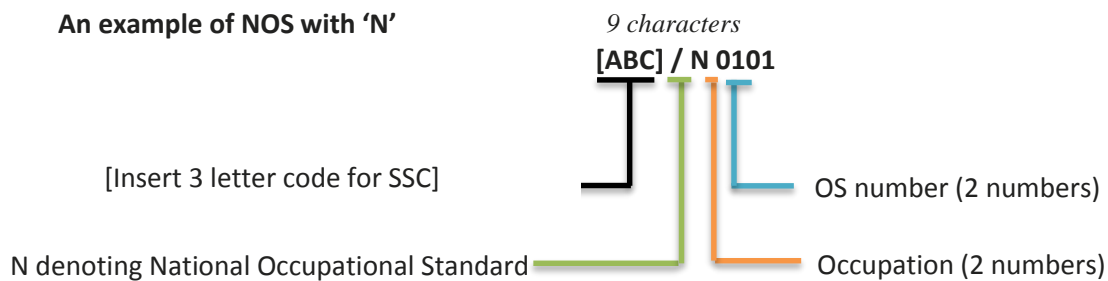
Nomenclature for QP and NOS

Qualifications Pack



Occupational Standard

An example of NOS with 'N'



The following acronyms/codes have been used in the nomenclature above:

Sub-sector	Range of Occupation numbers
Sports Science and Technology	01
Sports Medicine	02
Sports Broadcasting/Communications	03
Sports Grassroots	04
Sports Facilities	05
Sports Management	06
Sports Development	07
Sports Event Management	08
Sports Coaching	09
Sports Manufacturing	10
Sports Fitness & Leisure	11

Sequence	Description	Example
Three letters	Industry name	SPF
Slash	/	/
Next letter	Whether QP or NOS	N
Next two numbers	Occupation code	01
Next two numbers	OS number	01

PERFORMANCE CRITERIA

Job Role: Sports Turf maintenance Worker

Qualification Pack: SPF/

Sector Skill Council: Sports, Physical Education, Fitness and Leisure Sector Skill Council

1. Criteria for assessment for each Qualification Pack will be created by the Sector Skill Council. Each Performance Criteria (PC) will be assigned marks proportional to its importance in NOS. SSC will also lay down proportion of marks for Theory and Skills Practical for each PC.
2. The assessment for the theory part will be based on knowledge bank of questions created by the SSC.
3. Individual assessment agencies will create unique question papers for theory and skill practical part for each candidate at each examination/training center.
4. To pass the Qualification Pack, every trainee should score a minimum of 40% in every NOS overall 50% pass percentage.
5. In case of successfully passing only certain number of NOS's, the trainee is eligible to take subsequent assessment on the balance NOS's to pass the Qualification Pack.

Assessment Strategy Marks Allocation

NOS CODE	NOS TITLE	WEIGHTAGE
	Plan and undertake maintenance of turf areas	35
	Control weed, pest and disease infestations	35
	Manage and maintain planted areas, drainage and irrigation system	30
		100

NOS CODE	Plan and undertake maintenance of turf areas	Theory	Practical
Plan and set out sports areas	PC1. Carry out an initial survey which identifies the type, function and required dimensions of the sports area	1	3
	PC2. Produce accurate plans which are consistent with the rules of the sport	1	3
	PC3. Keep positioning and dimensions of the sports area consistent with the rules of the sport and the function, use and safety of the site	2	3
		4	9
Plan and maintain sports turf areas and facilities for play	PC4. Make sure your maintenance plans are consistent with the purpose and function of the sports turf and any specific requirements	1	3
	PC5. Select the correct tools and equipment to prepare the surface	1	3
	PC6. Use tools and equipment safely and efficiently	0	3

	PC7. Prepare the playing surface so that it meets the requirements of the sport and the standard for the event	1	3
	PC8. Carry out the work so that the grass height and edge trimmings meet specifications	1	3
	PC9. Carry out work in a manner which prevents damage to the surrounding area	0	3
	PC10. Maintain the quality and appearance of surfaces	1	3
	PC11. Make markings which are clear and appropriate to the event	1	2
	PC12. Clean tools and equipment and store them securely	1	3
	PC13. Clear surfaces of unwanted debris, leave the site in a tidy and undamaged condition following operations	0	3
	PC14. Assess the results of maintenance operations, ensuring the agreed objectives and standards have been achieved	1	3
	PC15. Monitor maintenance operations so as to minimise risk to the public and operators	0	2
	PC16. Maintain effective working relations with all relevant people throughout	0	2
	PC17. Keep unnecessary waste and unwanted impact on the environment to a minimum	1	3
		9	39
Plan and ensure the repair and renovation of sports turf areas	PC18. Ensure plans are consistent with the purpose and function of the sports turf and the standards and objectives of repair and renovation	1	3
	PC19. Inspect surfaces as required	1	2
	PC20. Identify and assess surfaces in need of renovation and repair	2	3
	PC21. Select renovation and repair methods that are appropriate to the damage and the type of sports surface	2	3
	PC22. Select tools and equipment that are suitable for the repair job	1	3
	PC23. Use tools and equipment safely and efficiently	0	2
	PC24. Prepare the surface and use the selected renovation and repair methods safely and correctly	1	3
	PC25. Reinststate the surface so that it meets the requirements of the sport and the standard of the event	1	3
	PC26. Clean and store equipment securely and correctly	1	3
	PC27. Assess the results of repair and renovation operations, ensuring that agreed objectives and standards have been achieved	1	3
		11	28
	TOTAL	24	76
			100

NOS CODE	Control weed, pest and disease infestations	Theory	Practical
Assess weed, pest and/or disease infestations	PC1. Assess materials and equipment requirement for the assessment and coordinate and schedule the same according to the prepared plan.	1	4
	PC2. Assess the procedures and tools to be used, the kind of records that are to be taken, and any potential hazards that might be faced; clearly communicate to concerned operational personnel.	1	4
	PC3. Observe and collect data according to the requirements of the implementation plan.	1	3
	PC4. Assess the size and scope of any infestations, and the potential impact on plant growth.	2	2
	PC5. Select treatments for the infestation from the options detailed in the Pest Management plan.	2	2
		7	15
Implement and monitor weed, pest and/or disease control strategies	PC6. Undertake control operations in a manner which ensures that potential negative environmental impacts are minimised or eliminated, including the proper disposal of containers and drums if used.	1	3
	PC7. Occupational Health and Safety (OHS) hazards are identified, assessed, and responsible action taken throughout the control operations.	2	3
	PC8. Any documentation that is required to be kept by either the organisation or OHS guidelines is completed clearly and accurately.	2	2
	PC9. Communicate regularly with operational staff and any contractors to ensure smooth operation and progress.	0	4
	PC10. Monitor the impact of control operations regularly	1	4
	PC11. Take Initiative where any corrective action or amendment to the implementation plan is required.	1	4
	PC12. Remove all waste materials and substances from site and store or dispose of responsibly.	0	4
		7	24
Identify requirements of chemical application/spray and implement	PC13. Assess the need for chemical use as an option within an integrated pest management strategy.	2	3
	PC14. Assess risks associated with proposed control strategy.	3	3
	PC15. Select preferred control procedures.	2	3
	PC16. Ensure that the correct chemicals and equipment is selected in accordance with the application/spray plan.	2	3
	PC17. Ensure that pre-operational checks of application equipment are carried out.	1	4

	PC18. Check to ensure that calibration conforms to the requirement of the application/spray plan.	2	4
	PC19. Coordinate with other operational staff to ensure that meteorological/ weather conditions are monitored and assessed during application where relevant.	2	4
	PC20. Consult supervisor immediately in the event of a chemical spill.	1	4
	PC21. Ensure all record keeping process is followed and completed.	2	2
		17	30
	TOTAL	31	69
			100

NOS CODE	Manage and maintain planted areas, drainage and irrigation system	Theory	Practical
Plan and ensure maintenance of planted areas	PC1. Ensure plans are consistent with the purpose, function, standards and objectives of planted areas	1	3
	PC2. Carry out maintenance operations to the planted area as planned	1	3
	PC3. Assess the results of maintenance operations, ensuring objectives, standards and safety requirements have been achieved	1	3
	PC4. Leave the site in an undamaged and tidy condition following operations	0	3
	PC5. Maintain effective working relations with relevant people throughout	0	3
	PC6. Keep unnecessary waste and unwanted impact on the environment to a minimum	1	3
	PC7. Deal with problems effectively, efficiently and safely	1	3
		5	21
Plan and ensure the renovation of planted areas	PC8. Ensure plans are consistent with the purpose, function, renovation standards and objectives of planted areas	1	2
	PC9. Carry out renovation operations as planned	1	3
	PC10. Assess the results of renovation operations, ensuring agreed objectives, standards and safety requirements have been achieved	1	2
	PC11. Keep the site in an undamaged and tidy condition following operations	1	3
	PC12. Keep unnecessary waste and unwanted impact on the environment to a minimum	1	3
	PC13. Deal with problems effectively, efficiently and safely	1	3
		6	16
Maintain drainage	PC14. Inspect and assess drainage systems according to agreed schedules	2	3

systems	PC15. Identify any problems with drainage systems	1	3
	PC16. Take action to restore drainage systems to full effectiveness	1	3
	PC17. Record inspections and work undertaken	2	1
	PC18. Keep surroundings in a tidy and undamaged condition following operations	1	3
	PC19. Maintain effective working relations with all relevant people throughout	1	3
	PC20. Keep unnecessary waste and unwanted impact on the environment to a minimum	1	3
		9	19
Maintain irrigation systems	PC21. Inspect and assess irrigation systems and surfaces according to agreed schedules	1	3
	PC22. Identify problems with irrigation systems and arrange repairs	1	3
	PC23. Record inspections clearly, accurately and promptly	2	1
	PC24. Keep surroundings in a tidy and undamaged condition following operations	1	4
	PC25. Maintain effective working relations with all relevant people throughout	1	3
	PC26. Keep unnecessary waste and unwanted impact on the environment to a minimum	1	3
		7	17
	TOTAL	27	73
			100