







Model Curriculum

QP Name: Water Hyacinth Handicrafts Maker

QP Code: WBSC/HCS/Q2101

QP Version: 1

NSQF Level: 2.5

Model Curriculum Version: 1

West Bengal State Council of Technical & Vocational Education and Skill Development, Karigari Bhavan, (5th Floor), Plot-B/7, Action Area-III, New Town, Kolkata-700160







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Training Parameters

Sector	Handicrafts and Carpets
Sub-Sector	
Occupation	Water Hyacinth Handicrafts Maker
Country	India
NSQF Level	2.5
Aligned to NCO/ISCO/ISIC Code	NCO-2015/ 7317.9900, 7317.0700
Minimum Educational Qualification and Experience	9th Grade pass OR 8th grade pass with 1.5 year relevant experience OR 5 th grade pass with 6 years relevant experience
Pre-Requisite License or Training	- grand passers years are an arranged as
Minimum Job Entry Age	18 years
Last Reviewed On	08/05/2025
Next Review Date	07/05/2028
Version	1.0
NSQC Approval Date	08/05/2025
Model Curriculum Creation Date	08/05/2025
Model Curriculum Valid Up to Date	07/05/2028
Model Curriculum Version	1.0
Minimum Duration of the Course	300 hours
Maximum Duration of the Course	300 hours







Program Overview

This section summarizes the end objectives of the program along with its duration.

Training Outcomes

At the end of the program, the participants will be able to:

- Describe water hyacinth's potential application.
- Demonstrate the process of harvesting and drying.
- Apply dye on water hyacinth stem.
- Make basic craft items like ropes, coasters etc.
- Make intricate items such as Baskets, Trays and Hand purses etc.
- Set up a small unit for water hyacinth handicraft products.
- Work in real job situation with emphasis on basic safety and hazards.

Compulsory Modules

The table lists the modules and their duration corresponding to the Compulsory NOS of the QP.

NOS and Module Details	Theory Duration	Practical Duration	Industry Exposure/OJ T Duration (Mandatory)	Industry Exposure/OJT Training Duration (Recommended)	Total Duration
WBSC/HCS/N2101 Describe water hyacinth's potential application. NOS Version No.: 1.0 NSQF Level: 2.5	10:00 Hours	20:00 Hours	00:00Hours	0:00Hours	30:00 Hours
Module 1: Introduction	10:00 Hours	20:00 Hours	00:00Hours	00:00Hours	30:00 Hours
WBSC/HCS/N2102 Demonstrate the process of harvesting and drying. NOS Version No.: 1.0 NSQF Level: 2.5	10:00 Hours	20:00 Hours	00:00Hours	00:00Hours	30:00 Hours
Module 2: Harvesting & Drying Techniques	10:00 Hours	20:00 Hours	00:00Hours	00:00Hours	30:00 Hours
WBSC/HCS/N2103 Apply dye on water	10:00 Hours	20:00 Hours	00:00Hours	00:00Hours	30:00 Hours







NOS Version No.: 1.0 NSQF Level: 2.5 Module 3: Dyeing process 10:00 Hours	hyacinth stem.					
Module 3: Dyeing process Module 3: Dyeing process 10:00 Hours WBSC/HCS/N2104 Make basic craft items like ropes, coasters etc. NOS Version No.: 1.0 NSQF Level: 2.5 Module 4: Making of Basic Handicrafts items WBSC/HCS/N2105 Make intricate items such as Baskets, Trays and Hand purses etc. NOS Version No.: 1.0 NSQF Level: 2.5 Module 5: Intricate Handicraft Design WBSC/HCS/N2106 Set up a small unit for water hyacinth handicraft products. NOS Version No.: 1.0 NSQF Level: 2.5 Module 6: Set up New 20:00 Hours 00:00Hours						
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Work in real job situation Hours Hours	-			60:00 Hours	00:00 Hours	60:00 Hours
with emphasis on basic	_					
safety and hazards.	•					
NOS Version No.: 1.0	NOS Version No.: 1.0					
NSQF Level: 2.5						
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Employability Skills Hours Hours				JU.JU HUUIS	Jo.oo Hours	30.00 HUUIS
NOS Version No.: 1.0						
NSOF Level 2.5	NSQF Level: 2.5					







Module 8: Employability	30:00	00:00	00:00 Hours	00:00Hours	30:00 Hours
Skills	Hours	Hours			
Total Duration	100:00 Hours	140:00 Hours	60:00 Hours	00:00 Hours	300:00 Hours

Module Details

Module 1: Introduction Mapped to WBSC/HCS/N2101

Terminal Outcomes:

- Identify various parts of the water hyacinth plant.
- Highlight the problems caused by water hyacinth for fishing communities.
- Describe the environmental impacts of water hyacinth.
- Demonstrate basic handicraft items made from water hyacinth.
- Illustrate the economic benefits of using water hyacinth for crafts.

Duration:10:00 hrs	Duration:20:00 hrs
Theory–Key Learning Outcomes	Practical–Key Learning Outcomes
 Explain Water Hyacinth and its components Describe how water hyacinth grows and spreads in water bodies. Explain fishing communities' problems such as water way blocking, aquatic habitats, entanglement of fishing nets, difficulty navigating boats etc. Describe its environmental impact such as oxygen level reduction for aquatic life, sunlight blocking from reaching submerged plants, fish movement hindrance etc Apply safety preauction at work place Explain the potential for turning water hyacinth into profitable products. Highlight the benefits to local economies 	 Visit to a water body to observe water bodies and water hyacinth plant Identify the plant's key components like stems, leaves and roots Demonstrate various types of handicrafts made from water hyacinth Prepare chart to Illustrate the potential of opportunities for water hyacinth products. Use of PPE (Personal Protective Equipment) viz. wears gloves, long sleeves and protective eyewear to avoid skin irritation and contact with potential contaminants.







and job creation.

Classroom Aids:

Computer, Projection Equipment, Power Point Presentation and software, Facilitator's Guide, Participant's Handbook.

Tools, Equipment and Other Requirements:

Blackboard, Chalk, Duster, Scale, First Aid Kit, PPE kits.

Module 2: Harvesting & Drying Techniques Mapped to WBSC/HCS/N2102

Terminal Outcomes:

- Use the right tools for harvesting water hyacinth.
- Separate stems from leaves and roots.
- Arrange stems properly for drying.
- Turn stems at the right time for even drying.
- Check moisture to prevent spoilage.
- Identify signs of good and bad drying.

Theory–Key Learning Outcomes Practi	ical–Key Learning Outcomes
tool usage. Describe the process of separating stems from leaves and roots. Explain the method of drying the stems. Explain the importance of turning stems periodically during drying. Illustrate the effect of drying time on quality of the stems. Describe moisture effect on product durability.	Demonstrate the process of harvesting the plant Collect the plant from the water and remove mud, debris from it. Cut leave and roots off the stems. Properly bundle and transport the stems Dry the stems in sunlight maintaining proper layout (evenly spaced). Turn the stems periodically for even drying. Demonstrate the process for drying not to over or under dry them Monitor moisture level to avoid spoilage.

Classroom Aids:

Computer, Projection Equipment, Power Point Presentation and software, Facilitator's Guide, Participant's Handbook.







Tools, Equipment and Other Requirements:

Sickle (For Cutting), Large Baskets and Transport facility, Sturdy Ropes for tying stems into bundles

Module 3: Dyeing process Mapped to WBSC/HCS/N2103

Terminal Outcomes:

- Set up the boiling apparatus correctly.
- Measure the right amount of dye to the water.
- Submerge water hyacinth stems evenly in the dye bath.
- Maintain proper boiling time for uniform color.
- Wash stems properly to remove excess dye.
- Dry the dyed stems correctly for best results.

 Duration:10:00 hrs Describe the steps involved in dyeing: boiling water, measuring dye, adding stems, removing excess color. Outline dye ratio and timing for quality results. Explain how boiling time affects color depth and evenness. Outline the steps for washing stems post-dye to remove excess color. Explain the methods for achieving even color distribution. Duration:20:00 hrs Practical–Key Learning Outcomes Set up boiling apparatus and boil the water Add color into the hot water Maintain correct dye-to-water ratios for desired color. Submerge the water hyacinth cut-pieces into the dye bath. Maintain boiling time of stem with color for consistent color depth. Wash the stem post-dyeing to remove excess color. Dry the stem after wash to get the proper color. 		
 Describe the steps involved in dyeing: boiling water, measuring dye, adding stems, removing excess color. Outline dye ratio and timing for quality results. Explain how boiling time affects color depth and evenness. Outline the steps for washing stems post-dye to remove excess color. Explain the methods for achieving even color distribution. Set up boiling apparatus and boil the water Add color into the hot water Maintain correct dye-to-water ratios for desired color. Submerge the water hyacinth cut-pieces into the dye bath. Maintain boiling time of stem with color for consistent color depth. Wash the stem post-dyeing to remove excess color. Dry the stem after wash to get the proper color. 	Duration:10:00 hrs	Duration:20:00 hrs
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Classroom Aids:

Computer, Projection Equipment, Power Point Presentation and software, Facilitator's Guide, Participant's Handbook.

Tools, Equipment and Other Requirements:

Boiling apparatus (stove or burner), colour, water, large wooden ladle.







Module 4: Making of Basic Handicrafts items Mapped to WBSC/HCS/N2104

Terminal Outcomes:

- Make ropes by twisting & braiding water hyacinth stems.
- Create chain designs using loops and knots.
- Weave a flat surface for placemats or table mats.
- Use coil weaving to make a small basket.
- Form circular mats for coasters with a flat base.
- Braid and stitch stems to create a simple bag or purse.

Duration:10:00 hrs	Duration:20:00 hrs		
Theory–Key Learning Outcomes	Practical–Key Learning Outcomes		
 Describe the process involved in rope and chain making Explain versatility in product design using these techniques. Explain weaving and braiding methods for varied shapes. Outline the steps for making items like coasters, mats, hand bags etc Identify design options including color combinations and patterns 	 Practice on Making ropes by twisting and braiding Make chain designs using loops and knots Create small items of different colors and designs like Create a flat woven surface for placemats or table mats. Use coil weaving technique to form a basket with a base and walls. Weave small circular mats with a flat base to make Coaster Braid the stems and sew them together to form a simple bag or purse 		
Classroom Aids:			

Computer, Projection Equipment, Power Point Presentation and software, Facilitator's Guide, Participant's Handbook.

Tools, Equipment and Other Requirements:

Needle, Thread, Scissors, Measuring Tape, Wooden Hammer, PLY Board, Cloth (Cotton).

Module 5: Intricate Handicraft Design Mapped to WBSC/HCS/N2105

Terminal Outcomes:

- Use advanced weaving techniques to make a basket.
- Demonstrate handle integration while making a tray.
- Create a plant holder with a woven lining.







- Attach wooden buttons to canvas using adhesive or stitching.
- Create different items like baskets, trays, purses and bags using intricate techniques
- Check the final product for quality and finishing details.

Duration:10:00 hrs	Duration: 20:00 hrs
Theory–Key Learning Outcomes	Practical–Key Learning Outcomes
 Describe complex crafting techniques for advanced products. Explain the techniques for creating sturdy, functional products. Describe patterns for items like baskets, trays and handbags. Identify various material used for handicraft design like canvas cloth, wooden button, wooden hammer, scissors etc. Explain precise measurements and pattern alignment techniques. Highlight the importance of attention to detail in final items. 	 Make a basket using advanced weaving techniques Demonstrate techniques for making Trays including handle integration. Create a woven basket with a lining to hold small plants Practice on wooden button art work on canvas using adhesive or stitching techniques. Make the following items using advanced weaving and stitching techniques: Lady Hand Purse (4" X 6"), Lady Coin Purse (10"), Baby Hand Purse (3" X 6"), Picnic Bag (12" X 14") Focus on precision in measurements and finishing details. Conduct quality checks of the final product to ensure market readiness.

Classroom Aids:

Computer, Projection Equipment, Power Point Presentation and software, Facilitator's Guide, Participant's Handbook.

Tools, Equipment and Other Requirements:

Needle, Thread, Scissors, Measuring Tape, Wooden Hammer, PLY Board, Cloth (Cotton), Wooden Buttons, Frame, Plastic Bucket, Canvas Cloth.

Module 6: Set up New Business Mapped to WBSC/HCS/N2106

Terminal Outcomes:

- Define the mission, vision, and goals of the Water Hyacinth Handicrafts business unit.
- Identify target markets, industry trends and competitors.
- Identify various funding sources and their applications.
- Create a comprehensive operational plan covering production and logistics.







- Create realistic financial projections including income and expenses.
- Explain the system for tracking business performance using KPIs.
- Record various cash transactions accurately using appropriate methods.
- Practice compliance with GST concepts.

cash receipts, vouchers, and cash memos.

• Utilize inventory management tools to maintain accurate stock levels.

	Duration:40:00 hrs tical-Key Learning Outcomes Estimate the amount of funding required
Introduction to the business, its mission,	Estimate the amount of funding required
- mirodaction to the basiness, its imission,	•
offered in its industry. • Explain the entire business concept, unique selling points (USPs) and competitive advantages.	and the purpose, whether through loans, investments or other means. Demonstrate detailed financial projections based on realistic assumptions and market trends.
 Identification of the target market, industry trends and analysis of competitors. 	Provide the operational plan on how the business will function, covering processes, technology and resources.
 Collaborate with sales and marketing teams to gather insights on promotions, seasonal variations and market changes. Different Sources of Fund for Start-up such as state Government schemes: Smami Vivekanda 	Demonstrate step-by-step plan for implementing the business strategy along with key metrics (KPIs) to track the business's progress. Hands-on practice in identifying and recording various cash transactions.
SwanibharKarmasanthanPrakalpa (SVSKP) West Bengal Swanirbhar Sahayak Prakalpa (WBSSP)	Practical experience with e-payment methods, debit/credit cards, UPI and mobile applications.
> WBMDFC Schemes	Practical exercises in generating cash memos and related documents.
 Specify product/service details, pricing and positioning in the market. Details on day-to-day operations (production, logistics and facilities), financial forecasts (income, balance sheets) and potential risks the business may face. Describe a system for regular monitoring and evaluation of the business plants 	Role-play scenarios for effectively managing returns, refunds and exchanges. Using accounting software or manual methods, record various financial transactions. Practice preparing invoices, receipts, and vouchers. Practical application of GST concepts, including calculations and compliance. Implement inventory management software to automate processes, track
payments (cash, card, UPI).	stock levels in real-time and generate accurate reports. Conduct regular physical audits and cycle

counts to ensure the accuracy of







- Introduction to e-payment concepts, debit and credit cards, UPI and mobile applications.
- Definitions and explanations of terms such as event, transaction, account, capital, asset, liabilities, income, expenses, profit, loss, cost and vouchers.
- Knowledge of GST concepts, applicability, exemptions, SGST, CGST, IGST, input tax, output tax, TCS, TDS, including rates and compliance.
- Categorize products into A, B and C classes based on their importance and value.
- Implement Just-In-Time (JIT) inventory systems with reliable suppliers to reduce excess inventory.

inventory records.

- Collaborate with key partners in the supply chain for shared demand forecasting and planning.
- Utilize data analytics tools to analyze historical data, identify trends and make informed decisions.
- Practice on creating detail project report template.

Classroom Aids:

Computer, Projection Equipment, Power Point Presentation and software, Facilitator's Guide, Participant's Handbook.

Tools	Equipment and	Other	Requirements
I OOIS.	Equipment and	ı Otner i	reaurements

Module7: Industry Exposure/OJT Mapped to WBSC/HCS/N2107

Terminal Outcomes:

Assessor will check report prepared for this component of training of the course and assess whether competency has been developed to work in the real job situation with special emphasis on basic safety and hazards in this domain. (The trainee is expected to undertake work in actual workplace under any supervisor / contractor for 60 Hours.)

Duration:00:00 hrs	Duration:60:00 hrs
Theory–Key Learning Outcomes	Practical–Key Learning Outcomes







 Assessor will check report prepared for this component of training of the course and assess whether competency has been developed to work in the real job situation with special emphasis on basic safety and hazards in this domain. (The trainee is expected to undertake work in actual workplace under any supervisor/ contractor for 60 Hours.)

Classroom Aids:

Computer, Projection Equipment, Power Point Presentation and software, Facilitator's Guide, Participant's Handbook.

Tools, Equipment and Other Requirements:

Module 8: Employability Skills Mapped to DGT/VSQ/N0101

Detail of Employability Skills Syllabus: 30 hours

Key Learning Outcomes

Introduction to Employability Skills Duration: 1 Hour

After completing this programme, participants will be able to:

1. Discuss the importance of Employability Skills in meeting the job requirements

Constitutional values - Citizenship Duration: 1 Hour

- 2. Explain constitutional values, civic rights, duties, citizenship, responsibility towards society etc. that are required to be followed to become a responsible citizen.
- 3. Show how to practice different environmentally sustainable practices

Becoming a Professional in the 21st Century Duration: 1 Hours

- 4. Discuss 21st century skills.
- 5. Display positive attitude, self-motivation, problem solving, time management skills and continuous learning mindset in different situations.

Basic English Skills Duration: 2 Hours

6. Use appropriate basic English sentences/phrases while speaking







Communication Skills Duration: 4 Hour

- 7. Demonstrate how to communicate in a well -mannered way with others.
- 8. Demonstrate working with others in a team

Diversity & Inclusion Duration: 1 Hour

- 9. Show how to conduct oneself appropriately with all genders and PwD
- 10. Discuss the significance of reporting sexual harassment issues in time

Financial and Legal Literacy Duration: 4 Hours

- 11. Discuss the significance of using financial products and services safely and securely.
- 12. Explain the importance of managing expenses, income, and savings.
- 13. Explain the significance of approaching the concerned authorities in time for any exploitation as per legal rights and laws

Essential Digital Skills Duration: 3 Hours

- 14. Show how to operate digital devices and use the associated applications and features, safely and securely
- 15. Discuss the significance of using internet for browsing, accessing social media platforms, safely and securely

Entrepreneurship Duration: 7 Hours

16. Discuss the need for identifying opportunities for potential business, sources for arranging money and potential legal and financial challenges







Tools and Equipment

For a batch of 30 trainees

S.N	Item Name	Specification	Unit
1	Raw Material	Water Hyacinth plant	30 nos.
2	Black board		1 no.
3	Chalk		2 packets
4	Duster		1no.
5	Scale		30 nos.
6	Measuring tape		30 nos.
7	Sickle		30 Nos.
8	Basket	Large	15 Nos.
9	Rope	Thick coir	
10	10 Needle Medium size		60 Nos.
11	Thread	Brown colour	150 Bundle
12	Scissor		30 nos.
13	Hammer / mallet	Wooden	30 Nos.
14	Buttons	Wooden	2 Pack
15	Cloth	Cotton	30 Nos.
16	Canvas		
17	Frame	Bamboo	30 Nos.
18	Bucket	Plastic	30 Nos.
19	Colour	Different colours	30 Pack.
20	Sitting tools		30 nos.
21	PPE kit		5 nos.







22	First Aid Kit	1 no.
23	Boiling apparatus (stove or burner)	5 set
24	Water	As required
25	large wooden ladle	10 nos.
26	Adhesive	5 nos.







Annexure

Trainer Requirements

	1	Trainer Prere	equisites				
Minimum Educational	Specialization	Releva Experi	ant Industry ence	Traini Exper	Remarks		
Qualification		Years	Specialization	Years Specialization			
10th		5	Water hyacinth handicraft Product designing	1	Water hyacinth handicraft Product designing	-	

Trainer Cei	rtification
Domain Certification	Platform Certification
Certified for Job Role: "Water Hyacinth Handicrafts Maker" mapped to QP: "WBSC/HCS/Q2101". Minimum accepted score is 80%.	Recommended that the Trainer is certified for the Job Role: "Trainer(VET & skills)", mapped to the Qualification Pack: "MEP/Q2601, v2.0". Minimum accepted score is 80%.







Assessor Requirements

Assessor Prerequisites						
Minimum Educational	Specialization		Relevant Industry Experience		ining/Assessm t Experience	Remarks
Qualification		Years	Specialization	Ye ars	Specialization	
10th		5	Water hyacinth handicraft Product designing	1	Water hyacinth handicraft Product designing	-

Assessor Certification				
Domain Certification	Platform Certification			
Certified for Job Role: "Water Hyacinth Handicrafts Maker" mapped to QP: "WBSC/HCS/Q2101". Minimum accepted score is 80%.	Recommended that the Assessor is certified for the Job Role: "Assessor (VET & skills)",", mapped to the Qualification Pack: "MEP/Q2701,v2.0". Minimum accepted score is 80%.			







Assessment Strategy

Assessment will be based on the concept of Independent Assessors empaneled with West Bengal State Council of Technical & Vocational Education & Skill Development (WBSCT&VE&SD), identified, selected, trained and certified on Assessment techniques. These Assessors would be aligned to assess as per the laid down criteria.

WBSCT&VE&SD would conduct assessment only at the training centers or designated testing centers authorized by WBSCT&VE&SD.

Ideally, the assessment will be a continuous process comprising of two distinct steps:

- A. Continuous assessment by Trainers
- B. Term end /Final Assessment by WBSCT&VE&SD

Each National Occupational Standard (NOS) in the respective QPs will be assigned weightage. Each Performance Criteria in the NOS will be assigned marks for theory and/or practical based on relative importance and criticality of function.

This will facilitate preparation of question bank / paper sets for each of the QPs. Each of these papers sets/question banks created by subject matter experts through WBSCT&VE&SD, especially with regard to the practical test and the defined tolerances, finish, accuracy etc.

The following tools are proposed to be used for final assessment:

- i. Written Test: This will comprise of (i) True/False Statements and/or (ii) Multiple Choice Questions and/or (iii) Matching Type Questions. Online system for this will be preferred.
- ii. Practical Test: This will comprise a test job to be prepared as per project briefing following appropriate working steps, using necessary tools, equipment and instruments. Through observation it will be possible to ascertain candidate's aptitude, attention to details, quality consciousness etc.
- iii. Structured Viva-voce: This tool will be used to assess the conceptual understanding and the behavioral aspects as regards the job role and the specific task at hand.







Marks distribution as per outcome

Course Name	Sr No	Outcome No.	Outcome	Th Hrs	Pr Hrs	Total Th marks	Total Pr. marks
	1	WBSC/HCS/N2101	Describe water hyacinth's potential application.	10	20	20	100
				10	20		
	2	WBSC/HCS/N2102	Demonstrate the process of harvesting and drying.			20	100
				10	20		
			Apply dye on water hyacinth stem.				
Čer	3	WBSC/HCS/N2103				20	100
Water Hyacinth Handicrafts Maker		,		10	20		
Jicraft	4	WBSC/HCS/N2104	Make basic craft items like ropes, coasters etc.				
Напс			cousters etc.			20	110
cinth				10	20		
т Нуа			Make intricate items such as Baskets,				
Vateı	5	WBSC/HCS/N2105	Trays and Hand purses etc.			20	110
>	3			10	20		
			Set up a small unit for water hyacinth				
_	6	WBSC/HCS/N2106	handicraft products.			50	130
	·			20	40		
	7	WBSC/HCS/N2107	Work in real job situation with special emphasis on basic safety and hazards in this domain	0	60	0	150
	8	DGT/VSQ/N0101	Employability Skill-30 Hrs	30	0	50	0
	Total Marks- 1000 (Theory-200, Practical-800)					200	800







References

Glossary

Term	Description
Declarative Knowledge	Declarative knowledge refers to facts, concepts and principles that need to Be known and/or understood in order to accomplish or to solve a problem.
Key Learning Outcome	Key learning outcome is the statement of what a learner needs to know, understand and be able to do in order to achieve the terminal outcomes. A set of key learning outcomes will make up the training outcomes. Training Outcome is specified in terms of knowledge, understanding(theory)and skills (practical application).
INDUSTRY EXPOSURE/OJT(M)	On-the-job training(Mandatory);trainees are mandated to complete specified hours of training on site
INDUSTRY EXPOSURE/OJT(R)	On-the-job training(Recommended);trainees are recommended the specified hours of training on site
Procedural Knowledge	Procedural knowledge addresses how to do something, or how to perform a task. It is the ability to work, or produce a tangible work output by applying cognitive, affective or psycho motor skills.
Training Outcome	Training outcome is a statement of what a learner will know, understand and be able to do upon the completion of the training .
Terminal Outcome	Terminal outcome is a statement of what a learner will know, understand and be able to do upon the completion of a module. A set of terminal outcomes help to achieve the training outcome.

Acronyms and Abbreviations

Term	Description
QP	Qualification Pack
NSQF	National Skills Qualification Framework
NSQC	National Skills Qualification Committee
NOS	National Occupational Standards