



# Model Curriculum

**QP Name: Golf Club Junior Technician (Fitting & Repair)**

**QP Code: SPF/Q1121**

**QP Version: 1.0**

## NSQF Level: 3

Model Curriculum Version: 1.0

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## Training Parameters

Sector	Sports
Sub-Sector	Sports Coaching and Fitness
Occupation	Sports Coaching
Country	India
NSQF Level	3
Aligned to NCO/ISCO/ISIC Code	NCO-2015/3423.0200
Minimum Educational Qualification and Experience	10th grade pass OR 9th grade pass with 1 Year of relevant experience OR 8th grade pass with 2 Years of relevant experience OR 5th grade pass with 5 Years of relevant experience
Pre-Requisite License or Training	NA
Minimum Job Entry Age	18 years
Last Reviewed On	23/06/2023
Next Review Date	23/06/2026
NSQC Approval Date	23/06/2023
QP Version	1.0
Model Curriculum Creation Date	23/06/2023
Model Curriculum Valid Up to Date	23/06/2026
Model Curriculum Version	1.0
Minimum Duration of the Course	360 Hours
Maximum Duration of the Course	360 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 learner will be able to:

- Assess golfer equipment requirements
- Perform common golf club repairs
- Adjust golf equipment to enhance performance
- Repair and alter golf equipment
- Work effectively with others
- Maintain hygiene and sanitation

### Compulsory Modules

The table lists the modules, their duration and mode of delivery.

NOS and Module Details	Theory Duration	Practical Duration	On-the-Job Training Duration (Mandatory)	On-the-Job Training Duration (Recommended)	Total Duration
<b>SPF/N1190: Understand the game of golf</b> NOS Version No. 1.0 NSQF Level: 3	05:00	10:00			15:00
<b>(Bridge Module)</b> Module 1: Introduction to golf club junior Technician (Fitting & Repair) job role	05:00	10:00			15:00
<b>SPF/N1167: Fit golf equipment</b> NOS Version No. 1.0 NSQF Level: 3	15:00	60:00	60:00	00:00	135:00
Module 2: Customize golf equipment to maximize performance	15:00	60:00	60:00	00:00	135:00
<b>SPF/N1168: Restore golf equipment</b> NOS Version No. 1.0 NSQF Level: 3	30:00	90:00	30:00	00:00	150:00
Module 3: perform golf club repairs	30:00	90:00	30:00	00:00	150:00
<b>SPF/N1169: Improve workplace resource usage</b> NOS Version No. 1.0 NSQF Level: 3	10:00	20:00	00:00	00:00	30:00

Module 4: Build an environmental friendly workplace	10:00	20:00	00:00	00:00	30:00
<b>DGT/VSQ/N0101: Employability skills (30 Hours) NOS Version No-1.0</b> <b>NSQF Level: 2</b>	15:00	15:00	00:00	00:00	30:00
Module 5: Employability skills	15:00	15:00	00:00	00:00	30:00
<b>Total Duration</b>	<b>75:00</b>	<b>195:00</b>	<b>90:00</b>	<b>00:00</b>	<b>360:00</b>

## Module Details

### Module 1: Introduction to the Golf Club Junior Technician (Fitting & Repair) job-role

#### Bridge Module

Mapped to SPF/N1190, v1.0

#### Terminal Outcomes:

- Describe the role and career opportunities of a Golf Club Junior Technician (Fitting & Repair)

<b>Duration:</b> 05:00	<b>Duration:</b> 10:00
<b>Theory – Key Learning Outcomes</b>	<b>Practical – Key Learning Outcomes</b>
<ul style="list-style-type: none"> <li>State the role and responsibilities of a Golf Club Junior Technician (Fitting &amp; Repair).</li> <li>Explain the difference between golf club fitting and repair.</li> <li>Teach about the game of golf to develop understanding about the golf equipment, golf course and the game</li> </ul>	<ul style="list-style-type: none"> <li>Create a career progression chart of a Golf Club Junior Technician (Fitting &amp; Repair).</li> </ul>
<b>Classroom Aids:</b>	
Laptop, whiteboard, marker, projector, chart paper, clipboards	
<b>Tools, Equipment, and Other Requirements</b>	
NA	

## Module 2: Customize golf equipment to maximize performance

### Mapped to SPF/N1167, v1.0

#### Terminal Outcomes:

- Assess golfer equipment requirements
- Adjust golf equipment to enhance performance
- Maintain hygiene and sanitation

Duration: 15:00	Duration: 60:00
Theory – Key Learning Outcomes	Practical – Key Learning Outcomes
<ul style="list-style-type: none"> <li>• Discuss the ways to perform detailed analysis of golfer's need and preferences.</li> <li>• Explain the ways to assess golfer's ability levels</li> <li>• Recall the factors affecting the performance of a golfer.</li> <li>• Describe role of club design, repair &amp; fitting on performance.</li> <li>• Discuss basic golf club specifications.</li> <li>• Explain the four basic options in club fitting</li> <li>• Discuss centre of gravity and its effect on ball flight</li> <li>• Explain the role of grip size on club performance and ball flight</li> <li>• Discuss the impact of shaft flex, shaft weight, shaft torque, and shaft flex point on ball flight</li> <li>• Discuss the effect of graphite shaft alignment on club performance</li> <li>• Measure a club's swing weight</li> <li>• Measure the lie and loft of irons</li> </ul>	<ul style="list-style-type: none"> <li>• Document the golfer's need and preferences.</li> <li>• Use a club fitting worksheet to conduct a fitting session</li> <li>• Demonstrate the four steps involved in providing players with proper club fitting</li> <li>• Measure and fit for proper grip size</li> <li>• Measure the flex and frequency of a shaft</li> <li>• Identify the relationship between shaft flex and shaft frequency</li> <li>• Change a club's swing weight</li> <li>• Adjust the lie and loft of irons</li> </ul>
<b>Classroom Aids:</b>	
Laptop, whiteboard, marker, projector, chart paper, clipboards, height & weight chart	
<b>Too, Equipment and Other Requirements</b>	
Golf club set, golf balls, extension piece double end, chop saw, tour tapered golf iron shaft, graphite shaft tip abradar, graphite shaft pry bar, putter shaft bending tube, professional shaft remover, club ferrule slicer and splitter, club head reaming vice, spring rood club grip remover, hosel cleaning brush, clubs new grip fitting kit, ferrule installer, soling kit upgrade, 48" hot rod set, all-in-one golf gauge, 50mm wide strip grip, tungsten powder.	

## Module 3: Perform golf club repairs

### Mapped to SPF/N1168, v1.0

#### Terminal Outcomes:

- Prepare resources and facilities for golf coaching sessions
- Establish and maintain a safe environment for golf coaching

Duration: 30:00	Duration: 90:00
Theory – Key Learning Outcomes	Practical – Key Learning Outcomes
<ul style="list-style-type: none"> <li>• Recall the advantages and disadvantages of using hybrid clubs</li> <li>• Explain the effect of tip cutting on shaft flex and ball flight</li> <li>• Define lie, loft, and sole inversion</li> <li>• Describe the impact of changing lie and loft on golf club performance</li> <li>• Describe the impact of loft, bulge, and roll of woods and metal woods on equipment and ball flight</li> <li>• Discuss the effect of head design on club performance and playability</li> <li>• Identify the primary factors and techniques in fitting juniors, seniors, and women</li> </ul>	<ul style="list-style-type: none"> <li>• Differentiate between steel and graphite shafts construction</li> <li>• Perform re-gripping of clubs</li> <li>• Perform re-shafting of clubs</li> <li>• Remove old grip for saving</li> <li>• Drill out broken shaft</li> <li>• Test for shaft flex stiffness with shaft frequency meter measuring cycles per minute</li> <li>• Reduce/increase length of club</li> <li>• Perform spline alignment</li> <li>• Cut a shaft tip</li> <li>• Install a ferrule</li> <li>• Install a new shaft in a hosel</li> <li>• Identify types of iron head design</li> <li>• Align a graphite shaft</li> <li>• Cut a club to length</li> <li>• Finish a ferrule</li> <li>• Demonstrate hygiene and sanitation checks at the workplace.</li> </ul>
<b>Classroom Aids:</b>	
Laptop, whiteboard, marker, projector, chart paper, clipboards	
<b>Tools, Equipment and Other Requirements</b>	
Golf club set, golf balls, extension piece double end, chop saw, tour tapered golf iron shaft, graphite shaft tip abrader, graphite shaft pry bar, putter shaft bending tube, professional shaft remover, club ferrule slicer and splitter, club head reaming vice, spring rood club grip remover, hosel cleaning brush, clubs new grip fitting kit, ferrule installer, soling kit upgrade, 48" hot rod set, all-in-one golf gauge, 50mm wide strip grip, tungsten powder.	

## Module 4: Build an environmental friendly workplace

### Mapped to SPF/N1169, v1.0

#### Terminal Outcomes:

- Identify effective waste management techniques in the workplace.
- Ways to make the workplace environmentally sustainable.

<b>Duration:</b> 10:00	<b>Duration:</b> 20:00
<b>Theory – Key Learning Outcomes</b>	<b>Practical – Key Learning Outcomes</b>
<ul style="list-style-type: none"> <li>• Identify the environment-friendly materials available to replace conventional materials.</li> <li>• Explain ways of disposing non-recyclable waste appropriately.</li> <li>• Discuss common sources of pollution and ways to minimize them.</li> </ul>	<ul style="list-style-type: none"> <li>• Prepare statutory documents relevant to safety and hygiene.</li> <li>• Exhibit the methods of disposing non-recyclable waste.</li> <li>• Report malfunctioning. (fumes/sparks/emission/vibration/noise) and lapse in maintenance of equipment.</li> </ul>
<b>Classroom Aids:</b>	
Laptop, whiteboard, marker, projector, chart paper, clipboards	
<b>Tools, Equipment and Other Requirements</b>	
Gloves, safety goggles, ladder	

## Module 5: Employability Skills

Mapped to DGT/VSQ/N0101, v1.0

### Terminal Outcomes:

- Understand Employability skills along with communication skills and constitutional values
- Able to set a goal and create a career plan, along with knowledge financial and legal knowledge

Duration: 15:00	Duration: 15:00
Theory – Key Learning Outcomes	Practical – Key Learning Outcomes
<ul style="list-style-type: none"> <li>• Discuss the Employability Skills required for jobs in various industries.</li> <li>• Explain the constitutional values, including civic rights and duties, citizenship, responsibility towards society and personal values and ethics such as honesty, integrity, caring and respecting others that are required to become a responsible citizen</li> <li>• Describe the role of digital technology in today's life</li> <li>• Explain entrepreneurship and opportunities available</li> <li>• Identify different types of customers and their needs</li> <li>• Explain skills required to become a 21st century professional</li> <li>• Teach to read and write basic English</li> <li>• Explain effective communication skills</li> <li>• Teach basic financial and legal knowledge</li> </ul>	<ul style="list-style-type: none"> <li>• Create a career plan</li> <li>• Implement Self-awareness, time management, critical thinking, problem solving</li> <li>• Create sample word documents, excel sheets and presentations using basic features, utilize virtual collaboration tools to work effectively wherever necessary</li> <li>• Implement communication skills while handling different customers</li> <li>• Use appropriate basic English sentences/phrases while speaking. Differentiate between types of customers.</li> <li>• Create a biodata.</li> <li>• Use various sources to search and apply for jobs.</li> </ul>
<b>Classroom Aids:</b>	
Charts, Models, Video presentation, Flip Chart, Whiteboard/Smart Board, Marker, Duster	
<b>Tools, Equipment and Other Requirements</b>	
Computer (PC) with latest configurations, Computer Tables, Computer Chairs, UPS, Scanner cum Printer	

## On-the-Job Training

### *Mapped to Golf Club Junior Technician (Fitting & Repair)*

<b>Mandatory Duration: 90:00</b>	<b>Recommended Duration: 00:00</b>
<b>Location: On-Site</b>	
<b>Terminal Outcomes</b> <ul style="list-style-type: none"> <li>• Perform common golf club repairs</li> <li>• Assess golfer equipment requirements</li> <li>• Adjust golf equipment to enhance performance</li> <li>• Repair and alter golf equipment</li> <li>• Work effectively with others</li> </ul>	

## Annexure

### Trainer Requirements

Trainer Prerequisites						
Minimum Educational Qualification	Specialization	Relevant Industry Experience		Training Experience		Remarks
		Years	Specialization	Years	Specialization	
12 <sup>th</sup> Class	Golf Club Junior Technician (Fitting & Repair)	Minimum of 1 year	Must have worked as a Golf Club Junior Technician (Fitting & Repair)	Minimum of 1 year	Golf Club Junior Technician (Fitting & Repair)	All empanelled Assessors would have to undergo “ <b>Train the Trainer</b> ” Program conducted by SPEFL SC for each job role time to time

Trainer Certification	
Domain Certification	Platform Certification
Certified ToT for job role “Golf Club Junior Technician (Fitting & Repair)” mapped to QP “SPF/Q1121, v1.0” Minimum accepted score is 80%	Recommended that the trainer is certified for the Job-Role “Trainer” mapped to the QP: Master Trainer (VET and skills) MEP/Q2601, v2.0” Minimum accepted score is 80%

## Assessor Requirements

Assessor Prerequisites						
Minimum Educational Qualification	Specialization	Relevant Industry Experience		Training/Assessment Experience		Remarks
		Years	Specialization	Years	Specialization	
12 <sup>th</sup> Class	Golf Club Junior Technician (Fitting & Repair)	Minimum of 2 year	Must have worked as a Golf Club Junior Technician (Fitting & Repair)	Minimum of 1 year	Golf Club Junior Technician (Fitting & Repair)	All empanelled Assessors would have to undergo <b>“Train the Assessor”</b> Program conducted by SPEFL SC for each job role time to time

Assessor Certification	
Domain Certification	Platform Certification
Certified ToA for job role “Golf Club Junior Technician (Fitting & Repair)” mapped to QP “SPF/Q1121, v1.0” Minimum accepted score is 80%	Recommended that the assessor is certified for the Job-Role “Assessor” mapped to the QP: Assessor (VET and skills) MEP/Q2701, v2.0” Minimum accepted score is 80%

## Assessment Strategy

### Assessment Guidelines

1. Criteria for assessment for each Qualification Pack will be created by the SPEFL - Sector Skill Council. Each Performance Criteria (PC) will be assigned marks proportional to its importance in NOS. SSC will also lay down the proportion of marks for Theory and Skills Practical for each PC.
2. The assessment for the theory part will be based on the knowledge bank of questions created by the SSC.
3. Assessment will be conducted for all compulsory NOS, and where applicable, on the selected elective/option NOS/set of NOS.
4. Individual assessment agencies will create unique question papers for the theory part for each candidate at each examination/training centre as per assessment criteria below.
5. Individual assessment agencies will create unique evaluations for skill practical for every student at each examination/ training centre based on these criteria.
6. To pass the Qualification Pack assessment, every trainee should score a minimum of 50% of aggregate marks to successfully clear the assessment.
7. In case of unsuccessful completion, the trainee may seek reassessment on the Qualification Pack.

### Recommended Pass % aggregate for QP: 50

Each NOS in the Qualification Pack (QP) will be assigned a relative weightage for assessment based on the criticality of the NOS. Therein each Performance Criteria in the NOS will be assigned marks for or practical based on relative importance, criticality of function and training infrastructure.

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

1. **Practical Assessment:** This will comprise of a creation of mock environment in the skill lab which is equipped with all equipment's required for the qualification pack. Candidate's soft skills, communication, aptitude, safety consciousness, quality consciousness etc. will be ascertained by observation and will be marked in observation checklist. The product will be measured against the specified dimensions and standards to gauge the level of his skill achievements.
2. **Viva/Structured Interview:** This tool will be used to assess the conceptual understanding and the behavioural aspects as regards the job role and the specific task at hand. It will also include questions on safety, quality, environment, and equipment, etc.
3. **Written Test:** Under this test few key items which cannot be assessed practically will be assessed. The written assessment will comprise of:
  - i. True / False Statements
  - ii Multiple Choice Questions
  - iii Matching Type Questions.
  - iv Fill in the blanks

#### Accreditation of Assessing Body:

The SPEFL SC's Accreditation process is divided into two steps:

1. **Pre-accreditation process:**

- Apply for Accreditation: Application form with desired documents in prescribed format to be sent.
- Document Compliance: to be done for ensuring the compliance and adherence of applied assessing body according to criteria laid down by SPEFL SC.
- Presentation on Quality Assurance: to be given by Assessing body highlighting the quality assurance process laid down by Assessing body at the process points.
- Once the assessing body clears the due diligence process, the accreditation is given along with terms and conditions.

2. **Post-accreditation process:** Post accreditation, the accredited assessing bodies needs to fulfil following minimum eligibility criteria or requisites for implementation:

- All Empanelled Assessors would have to undergo “**Train the Assessor**” Program conducted by SPEFL SC for each job role time to time.
- Accredited Assessing Body would have to abide with requisite timelines, policies and regulations declared by SPEFL sector skill council.
- Accredited Assessing Body with times would have to contribute to expansion of the questionnaire.

## References

## Glossary

Term	Description
<b>Key Learning Outcome</b>	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).
<b>OJT (M)</b>	On-the-job training (Mandatory); trainees are mandated to complete specified hours of training on-site
<b>OJT (R)</b>	On-the-job training (Recommended); trainees are recommended the specified hours of training on site
<b>Training Outcome</b>	Training outcome is a statement of what a learner will know, understand and be able to do upon the completion of the training.
<b>Terminal Outcome</b>	Terminal outcome is a statement of what a learner will know, understand and be able to do <b>upon the completion of a module</b> . 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