

1. Title of Skill Course: **SSB Interview Skills: PPDT and Psychology**
2. Department: Department of Military Science and NCC
3. Sector: Military Science
4. Year of implementation: 2025-26

Course Structure

Skill Level	Theory Hours	Practical Hours	Training Hours	Total Hours	Credits	No. of students in batch
4/5/6/7	15	30	05	50	02	30

Syllabus

Course Objectives: Students will be able to

1. To introduce students to essential field engineering techniques used in military settings.
2. To train students in construction and improvisation of field defenses, shelters, and basic utilities.
3. To build basic terrain management, camouflage, and resource utilization skills.
4. To promote practical thinking and problem-solving in field conditions using available resources.

Theory Syllabus

Contact Hrs: 15

Unit I: Field Engineering Basics

08 Hrs

1. Introduction to Field Engineering in Military Operations
2. Types of Field Fortifications (trenches, foxholes, bunkers)
3. Shelter building and temporary structures using natural and improvised materials
4. Terrain analysis and siting of field structures
5. Basic land navigation and layout using compass and simple tools

Unit II: Psychology Tests in SSB

1. Field drainage and water diversion systems
2. Camouflage and concealment: materials, patterns, and techniques
3. Construction of obstacles: barbed wire fencing, tripwires, and basic traps
4. Use of hand tools: spade, pickaxe, machete, hammer, rope
5. Temporary bridge-making and improvisation of foot crossings

Practical Syllabus (Contact Hrs: 30, Credits: 01)

List of Experiments

30 Hours

1. Digging and reinforcing a basic trench or foxhole using correct measurements and angles.
2. Constructing a makeshift shelter using rope, tarpaulin, sticks, or camouflage netting.
3. Laying out and camouflaging a position using available terrain and natural materials.
4. Creating a basic drainage system for a tent or field shelter to prevent flooding.
5. Constructing a barbed wire fence obstacle using posts and rope (demo if barbed wire is unavailable).

6. Building a sandbag bunker wall or parapet with appropriate layering techniques.
7. Navigating a field layout using compass and pace count (simple land navigation).
8. Improvising a footbridge or rope bridge over a small ditch or simulated stream.
9. Using standard field tools for digging, hammering, and cutting – safety and techniques.
10. Simulating a night concealment drill using improvised camouflage and movement techniques.

Case Study/Project/Industrial Visit/Field Visit

(Note: Total number of Practical for Skill level 4 and 5 is 10 and for skill level 6 and 7 is 8

Training **05 Hours**

Course Outcomes: Students should be able to

1. Understand the principles and applications of field engineering in combat zones.
2. Use camouflage and concealment techniques effectively.
3. Set up field utilities such as drainage, fencing, and temporary crossings.
4. Apply engineering knowledge in survival and tactical situations.

Reference Books:

1. Sharma, M.C. 2017. Basics of Field Craft and Battle Craft. Delhi: Surya Publications.
2. Singh, Suresh. 2019. NCC Cadet's Companion: A Complete Guide to Military Training. New Delhi: Khel Sahitya Kendra.
3. Rao, P. Venugopal. 2014. Introduction to Military Science. Hyderabad: Neelkamal Publications.
4. Pandey, R.K. 2020. Military Tactics and Field Engineering for Cadets. Lucknow: Swastik Publications.

BOS Sub Committee:

Sr. No.	Name of Member	Designation	Address
1	Lt. S. R. Pol	Chairman	Dept of Mil. Sci. YCIS Satara
2	Lt. G. Y. Chorage	Member	Dept of Mil. Sci. YCIS Satara
3	Ms. S. M. Magade	Academic Expert	Dept of Mil. Sci. YCIS Satara
4	Hav. Jayram Gcharge	Industrial Expert	Army Education Corps