

Here is a **comprehensive full report** for a five-day short-term training programme on Wood Coatings.

REPORT

Five-Day Short-Term Training Programme on Wood Coatings

1. Introduction

A five-day Short-Term Training Programme on *WOOD COATINGS* was successfully organized by the Wood Working and Finishing Discipline, Forest Products Division at the Forest Research Institute (FRI), Dehradun from **20th April to 24th April 2026**. The programme was designed to enhance the technical knowledge and practical skills of participants in the field of wood finishing and surface coatings.

A total of **23 participants** from wood-based industries attended the programme, reflecting a diverse and interdisciplinary learning environment. The participants are from Plantag Coatings India Ltd. Jodhpur, Rajasthan, Rich wood Industries, Solapur, Maharashtra, Sham Paint industry Noida, SBL Speciality Coating Punjab, Ideal Coatings, Jodhpur, Hamz Craft and Heritage Co. Nagina, Fursource Jodhpur, H & M New Delhi, CL Gupta Exports Ltd. Moradabad, Rachna Timber Sitapur, DH Creations and Coatings Agra, Heritage Industry Sitapur, Jaipur and Gayatri Doors Pvt. Ltd., Hyderabad and special mention one participant is from Plantag Coatings, Istanbul, Turkey.

2. Objectives of the Programme

The main objectives of the training programme were:

- To provide fundamental and advanced knowledge of wood coatings
- To familiarize participants with different types of coatings and their applications
- To develop practical skills in surface preparation and finishing techniques
- To understand the role of coatings in wood protection and aesthetics
- To introduce modern technologies and innovations in wood finishing

3. Programme Structure

The programme was structured into **theoretical lectures, practical demonstrations, and hands-on sessions**, ensuring a balanced learning experience.

Day-wise Highlights

Day 1: Basics of Wood and Surface Preparation

- Introduction to wood as a material

- Importance of surface preparation
- Sanding techniques and defect identification

Day 2: Types of Wood Coatings

- Classification: Water-based, solvent-based, UV coatings, etc.
- Properties and performance characteristics
- Selection criteria for different applications

Day 3: Application Techniques

- Brushing, spraying, and polishing methods
- Equipment handling and safety measures
- Demonstration of coating application

Day 4: Advanced Coating Systems

- Industrial finishing systems
- Eco-friendly and low-VOC coatings
- Troubleshooting common finishing defects

Day 5: Testing, Evaluation, and Interaction

- Coating performance testing (Adhesion, Hardness, Gloss, Abrasion, Colour etc.)
- Visit to Wood Seasoning and Wood Preservation plant
- Visit to Timber Museum, FRI, Dehradun
- Valedictory session and feedback

4. Resource Persons

The sessions were conducted by experienced experts and resource persons from the institute, who shared practical insights and real-world applications.

5. Practical Training

Hands-on sessions were a key component of the programme, where participants gained experience in:

- Surface preparation and sanding
- Application of Primers, Sealers, and Topcoats
- Application of Water Based and Solvent based Coatings
- Preparation of Wood surface with Hi Gloss, Matte, Metallic, Marble and Pigmented Finishes
- Spray finishing techniques
- Evaluation of coating quality with different test methods

6. Participant Feedback

Participants appreciated the programme for its:

- Well-structured curriculum
- Balance between theory and practice
- Exposure to modern coating technologies
- Interactive sessions and expert guidance

Many participants expressed that the training would be highly beneficial in their professional work.

7. Outcomes of the Programme

The training programme successfully:

- Enhanced participants' understanding of wood coating technologies
- Improved practical skills in finishing applications
- Promoted awareness of sustainable and eco-friendly coatings
- Strengthened industry–academia interaction

8. Valedictory Session

During the valedictory session, Shri D.P. Khali, Group Coordinator Research, FRI, Dehradun, appreciated the efforts of the Wood Working and Finishing Discipline and highlighted the growing importance of sustainable and high-performance wood coating systems in the wood-based industries. The programme concluded with a valedictory session where certificates were distributed to the participants. The organizers appreciated the active participation and encouraged attendees to apply the gained knowledge in their respective fields.

9. Conclusion

The five-day short-term training programme on Wood Coatings was successfully conducted and achieved its intended objectives. It served as an effective platform for knowledge sharing, skill development, and professional networking in the field of wood finishing.

GLIMPSES OF TRAINING PROGRAMME INAUGURATION BY HON. DIRECTOR F.R.I. Mrs. RICHA MISHRA



LECTURES AND HANDS ON PRACTICE SESSIONS











VALEDICTORY PROGRAMME





