

Sant Gadge Baba Amravati University

Department of Lifelong Learning & Extension

Short Term Certificate Courses

(3 Month)

Syllabus

For

Certificate Course in Textile - Quality Inspection

Unit-1:

Introduction Textile Testing

Textile Testing: Introduction, object of testing and quality inspection. Sampling methods: Random sampling, sampling method forcible from row cotton, sliver, roving and yarn. sampling method for yarn from various types of package and cloth, sampling method for cloth

Unit- 2:

Testing methods

Fiber testing methods: Length, strength, fineness, maturity. Yarn testing methods: Single yarn strength, lea strength, count, evenness, yam faults, twist, direction of twist for single and ply yarns. Fabric testing methods: EPI, PPI, length, width, thickness, crease recovery, air permeability.

Unit 3:

Fabric Inspection

Fabric defects: warp way defects, weft way defects, various knitted fabric defects, severity of defects. Inspection system of fabric: cloth construction, inspecting the fabric on four-point inspection system.

Unit 4:

Quality Inspection & Discipline

Data collection, data arrangement, data analysis. Reporting the observation in a suitable format, importance of disciplines at work, work culture and ethics

Unit 5:

Safety and Security

Importance of cleanliness and personal safety, fire-fighting and first aid, safety gadgets in textile factory, precaution to be taken while working. Communication skills and reporting skills.

PRACTICALS

1. Sampling methods for fiber,
2. Sampling methods for yarn.
3. Sampling methods for fabric.
4. Testing related to fiber,
5. Testing related to yarn
6. Testing related to fabric
7. Checking the roll weight of fabric and the construction details
8. Inspecting the fabric and marking the defects found by stickers
9. Putting a tag at the side for objectionable defects
10. Reporting the observation in a suitable format.

Books Recommended:

1. Process control in Textile manufacturing
2. Quality Assurance for Textile
3. An Introduction to quality Control for apparel Industry
4. Textile Quality: Physical methods of Products and Process Control

Practical

- 1) Sampling methods for fiber, yarn & cloth
- 2) Testing of fiber, yarn & cloth
- 3) Checking the roll weigh of fabric and the construction details.
- 4) Inspecting the fabric and marking the defects found by stickers.
- 5) Putting a tag at the side for objectionable defects
- 6) Reporting the observation in a suitable format.
- 7) Practicing considering safety and health aspects.
- 8) Mock drill for fire fighting and first aid.