

**Department of Jute and Fibre Technology, Institute of Jute Technology,
University of Calcutta**

**Syllabus for Vocational Workers' Training for Jute Sector to be Conducted by
Department of Jute and Fibre Technology, Institute of Jute Technology, University
of Calcutta, Under Integrated Skill Development Scheme Project (ISDS) Sponsored
by Ministry of Textiles, Government of India**

Module XII: Shuttleless Weaving

Total Contact Hours 150 (One month Training)

THEORITICAL PAPER (50 hrs)

Weaving - Types of weave and its purpose, importance etc. Concept of Jute cloth cloth width, ends & picks per dm Loom - Different motion, shedding, picking, Beating, Let off, Take up. Difference between shuttleless looms and conventional shuttle looms. Description of different types of shuttleless looms - their parts and functions. Duties and responsibilities of weaver; Aspects affecting production on Loom Causes affecting speed of looms. Reasons for knock off of loom. Different faults their reasons and remedies. Do's and Don'ts for weaver. Defects of Jute cloth, their reasons and remedies.

Motivation, behavioral aspects, change of attitude, time management, communication and coordination, quality management and quality circle activities

PRACTICAL Contact Hours: 100

Familiarization with different types shuttleless looms, their parts & functions. Familiarization with different motion of shuttleless looms, shedding, picking, beating, let off, take up, etc. Setting of shotting pinion To learn good practices for producing good quality fabric on loom. Remedial steps to control wastages. To learn proper weaver's knotting. Basic care and maintenance of different types of modern looms and their parts. Knowledge of tuning of loom and checking proper functioning of different motions. To learn reasons for loom stoppage and production of poor quality of fabric on loom and its remedial measures. Safety practices.