I.S.I.S. - I.P.S.I.A. "G. Meroni"
Legno, Mobile e Arredamento - Design
Gestione Aziendale - Servizi Turistici

Education and Culture
Lifelong Learning Programme
LEONARDO DA VINCI

IPSIA MERONI-LISSONE- ITALY

itle	Numerical Control Working Centre		
Reference class	3RD CLASS		
Working hours	30	Implementation Period	February –April 2010
Competence at the end of this module	produce a decorated door of a piece of furniture using cnc (numerical control working centre)		

Skills	Knowledge	Involved Subjects
To interpret graphic information. To execute sketches and dimensioned surveys. To implement a feasible technical drawing on an information medium (CAD) according to UNI/ISO regulations. To fill in a working schedule using proper technical language. To execute calculation and measurement operations using information systems. To read and to interpret technical documentations of instruments, accessories and sector tools	UNI/ISO regulations for technical drawing Two-dimensional graphic representation methods Three-dimensional graphic representation methods. Dimensioning standards and rules. Proportion and reduction scales Technical drawing instruments and technical writing Representation techniques with information systems (CAD)	DRAWING PRODUCTION TECHNIQUE

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	Unit of measurement and trade measures used in the sector Technical sector documentation: technical handbbooks, catalogues and price lists. Technical sector symbology Product cards	
To execute equipping operations of working tools on CNC (numerical control) To execute and/or modify parts of programme and working operations at CNC machines To execute boring operations on CNC To execute milling operations on CNC To execute planning operations on CNC	Programming language CNC machine tool structure Types and features of shearing tools Typology and characteristics of boring tools Programming methods with subroutines (sub-programmes) *Parametric programming systems*	*WOODWORKING LABORATORY* PRODUCTION TECHNIQUE
Competence verification method		
1° Item production (decorated door of a piece of furniture) 2° Correspondence between the object and what decided in the project 3° Operating autonomy 4° Ability to identify and to work out operating problems		