

2002 CTS AMENDMENTS to the Construction Technologies Guide to Standards and Implementation

Summary of Curriculum Changes

- Clarification to the prerequisite requirement for CON1140: Turning Operations.
- Effective September 2002, Section I has been removed from all CTS strands and replaced with a general information page.

Section D

- **Remove** pages D.19–D.20 (1997) and **replace** with new pages D.19–D.20 (Revised 2002).

Section I

- **Remove** Section I (1997) and **replace** with new page I.1 (Revised 2002).

COURSE CON1140: TURNING OPERATIONS**Level:** Introductory**Theme:** Manufacturing Systems (Processes and Applications)**Prerequisite:** CON1010 Basic Tools & Materials**Description:** Students use wood-turning equipment and techniques to create a faceplate and spindle turning made from solid and/or built-up stock.**Parameters:** Access to a materials work centre, complete with basic hand and power tools, and to instruction from an individual with specialized training in the use of power tools.**Supporting Course:** CON1120 Project Management**Curriculum and Assessment Standards**

General Outcomes	Assessment Criteria and Conditions	Suggested Emphasis
<p><i>The student will:</i></p> <ul style="list-style-type: none"> operate, safely, a power wood lathe 	<p><i>Assessment of student achievement should be based on:</i></p> <ul style="list-style-type: none"> demonstration of the safe set-up, use and shut-down procedures. <p><i>Assessment Tool</i> <i>Equipment Checklist: Wood Lathe, CONEQUIP-3</i></p> <p><i>Standard</i> <i>All procedures are performed according to standard lathe practice and specific recommendations of the lathe manufacturer</i></p>	15
<ul style="list-style-type: none"> apply drawing and transfer skills to prepare a full-size pattern or template 	<ul style="list-style-type: none"> preparation of a full-size pattern or template. <p><i>Standard</i> <i>The pattern and/or template is to be within ± 1 mm of the original plan or object</i> <i>Performance rating of 2 for each applicable task</i></p>	15
<ul style="list-style-type: none"> produce a faceplate and spindle turning, using solid or built-up stock 	<ul style="list-style-type: none"> demonstration of accepted material preparation and wood-turning skills. <p><i>Assessment Tool</i> <i>Assessment Framework: Project Assessment, CONPRO</i></p> <p><i>Standard</i> <i>The turnings should be within ± 2 mm of the original drawing or free formed according to accepted design principles. The product should be free of major production defects (machining marks, gouges, burns and voids)</i> <i>Performance rating of 2 for each applicable task</i></p>	70

COURSE CON1140: TURNING OPERATIONS (continued)

General Outcomes	Assessment Criteria and Conditions	Suggested Emphasis
<p><i>The student will:</i></p> <ul style="list-style-type: none"> demonstrate basic competencies. 	<p><i>Assessment of student achievement should be based on:</i></p> <ul style="list-style-type: none"> observations of individual effort and interpersonal interaction during the learning process. <p><i>Assessment Tool</i> <i>Basic Competencies Reference Guide and any assessment tools noted above</i></p>	<p>Integrated throughout</p>

Concept	Specific Outcomes	Notes
<p>Orientation</p> <ul style="list-style-type: none"> Health and Safety Materials 	<p><i>The student should:</i></p> <ul style="list-style-type: none"> identify and demonstrate the safe use and operation of the wood lathe identify the common lathe chisels and accessories associated with wood turning describe recommended tools and accessories for faceplate and spindle turning identify and describe accepted work piece mounting and supporting techniques describe the turning characteristics of a number of common woods identify finishes and finishing procedures suitable for common turned products. 	<p>Discuss the need for properly maintained tools, dust control equipment and the use of personal protective equipment.</p>
<p>Planning and Management</p> <ul style="list-style-type: none"> Product Design 	<ul style="list-style-type: none"> select, modify or design a faceplate and/or spindle-type product that incorporates three or more different types of cuts create a full-size pattern or template 	<p>It is recommended that students complete CONEQUIP-3: Wood Lathe Equipment Checklist prior to the use of this piece of equipment.</p>

Section I: Learning Resource Guide

NOTICE

Effective September 2002, Section I has been removed from all CTS strands and replaced with this general information page.

Alberta Learning authorizes a variety of resources that support learning and teaching in this strand. Teachers are encouraged to browse the Alberta Learning Web site at <<http://www.learning.gov.ab.ca>> on a regular basis for the most up-to-date information on:

- authorized resources; i.e., student basic, support and authorized teaching
- provincial software licensing agreements
- additional sources of support.

The lists of authorized resources that were previously included in Section I of the *1997 Guides to Standards and Implementation* have been deleted. Up-to-date listings of authorized resources are available at the Alberta Learning Web site and can be accessed through:

- Authorized Resources Database, a searchable online index of every approved learning and teaching resource for use in each subject area. The database is searchable for each 1-credit course.
- Learning Resources Centre (LRC). The LRC ensures accessible, available and affordable resources to enhance learning to all Alberta students.

A variety of documents and related sites are also accessible at the Alberta Learning Web site. These include:

- *Connection: Information for Teachers*, an online information newsletter for administrators, counsellors and teachers. It includes information on curriculum, resources, assessment, technology, new initiatives and projects.
- Learning Technologies Branch, a partnering branch that develops and provides information about distance learning programs and other learning alternatives offered by Alberta Learning.
- 2Learn Alliance, an education–business partnership that provides Internet inservice, support and mentorship for Alberta teachers.

