

CART 1013: CONSTRUCTION PRACTICES

Course outlines are reviewed annually as part of continual quality improvement. This course was last updated for the effective term below.

Effective Term

Fall 2018

Full Course Title

Construction Practices

Subject Code

CART - PS Carpentry Techniques

Course Number

1013

Academic Level

Post Secondary

Grade Mode

Numeric

PLAR Applicable

Yes

Total Hours

70

Course Description

Students further their knowledge of wood-frame construction, site preparation, building layout, a variety of footing, foundation and other concrete applications, engineered building products, exterior doors and windows, a variety of roof styles, and a look at post and beam construction. Energy efficiency is emphasized. Sustainable construction techniques, entrepreneurship and construction management are explored. Hoisting and rigging, and scaffolds and ladders are introduced.

Equivalent(s) Courses (One-Way)

CART 1002 - Advanced Framing

Course Content

- Survey principles
- Concrete Formwork
- Hoisting, scaffolds, ladders
- Framing with engineered products
- Dormers
- Ontario Building Code
- Energy efficiency
- Green technologies

Course Evaluation

The passing grade for this course is 50% unless otherwise noted below. The evaluation is comprised of:

- Workbook 50%
- Tests/assignments 50%

Tests/examinations/assignments must be written/submitted at the time specified. Requests for adjustments to that schedule must be made before the test/exam/assignment date to the faculty member. Failure to do so will result in a mark of "0", unless an illness/emergency can be proven with appropriate documentation at no cost to the College.

The passing grade for all courses is 50%, or letter grade of P (Pass) or S (Satisfactory) unless otherwise noted below. The passing weighted average for promotion through each semester of a program is 60% and is a requirement to graduate.

Course Learning Outcomes

Upon successful completion of this course, the student has reliably demonstrated the ability to:

1. select correct equipment and procedures for survey tasks;

This learning outcome meets the following Essential Employability Skills(s):

EES1: Communication
EES2: Response to communication
EES3: Numeracy
EES5: Critical thinking to solve problems
EES9: Interaction and collaboration
EES11: Responsibility for actions

Evaluation

Introduced
Reinforced
Assessed

Upon successful completion of this course, the student has reliably demonstrated the ability to:

2. determine the appropriate erection and use of ladders and scaffolds;

This learning outcome meets the following Essential Employability Skills(s):

EES5: Critical thinking to solve problems
EES9: Interaction and collaboration
EES11: Responsibility for actions

Evaluation

Introduced
Reinforced
Assessed

Upon successful completion of this course, the student has reliably demonstrated the ability to:

3. analyze forming design and methods for residential footings and walls;

This learning outcome meets the following Essential Employability Skills(s):

EES1: Communication
EES3: Numeracy
EES5: Critical thinking to solve problems
EES9: Interaction and collaboration

Evaluation

Introduced
Reinforced
Assessed

Upon successful completion of this course, the student has reliably demonstrated the ability to:

4. delineate framing methods for wood frame construction as relates to roofs, dormers, and specialized situations;

This learning outcome meets the following Essential Employability Skills(s):

EES1: Communication
EES2: Response to communication
EES5: Critical thinking to solve problems
EES9: Interaction and collaboration

Evaluation

Introduced
Reinforced
Assessed

Upon successful completion of this course, the student has reliably demonstrated the ability to:

5. utilize the Ontario Building Code for design requirements;

This learning outcome meets the following Essential Employability Skills(s):

EES5: Critical thinking to solve problems
EES7: Application of research and information
EES11: Responsibility for actions

Evaluation

Introduced
Reinforced
Assessed

Upon successful completion of this course, the student has reliably demonstrated the ability to:

6. explore methods of truss and engineered systems erection;

This learning outcome meets the following Essential Employability Skills(s):

EES1: Communication
EES2: Response to communication
EES5: Critical thinking to solve problems
EES6: Organization of information
EES9: Interaction and collaboration
EES11: Responsibility for actions

Evaluation

Introduced
Reinforced
Assessed

Upon successful completion of this course, the student has reliably demonstrated the ability to:

7. evaluate construction methodology as it relates to energy efficiency and emerging 'green technologies';

This learning outcome meets the following Essential Employability Skills(s):

EES1: Communication
EES2: Response to communication
EES5: Critical thinking to solve problems
EES7: Application of research and information
EES11: Responsibility for actions

Evaluation

Introduced
Reinforced
Assessed

Upon successful completion of this course, the student has reliably demonstrated the ability to:

8. examine building science: concepts of heat, air and moisture flows; materials and techniques; the building as a system; sustainability.

This learning outcome meets the following Essential Employability Skills(s):

EES1: Communication
EES2: Response to communication
EES5: Critical thinking to solve problems
EES11: Responsibility for actions

Evaluation

Introduced
Reinforced

Key: 2735