



Golden Triangle Cooperative

Career Vocational and Technical Education Curriculum

Industrial Arts Technology

Residential Construction Technology

CVT=Montana Career and Vocational Technical Education

<http://opi.mt.gov/PDF/Standards/ContStds-CareerTech.pdf>

WCS=Montana Workplace Competency

<http://opi.mt.gov/PDF/Standards/ContStds-Workplace.pdf>

TS=Montana Technology Standards

<http://opi.mt.gov/PDF/Standards/10ConStds-Tech.pdf>

EU=Essential Understandings Regarding Montana Indians

<http://www.opi.mt.gov/Pdf/IndianEd/Resources/essentialunderstandings.pdf>

GTCC= Golden Triangle Coop Curriculum

GTCC.RCT.1 Residential Construction Safety

The student will be aware and practice all safety requirements set forth by the instructor, the school, State of Montana and/or OSHA. (WCS2B12#2)

(WCS5B12#1,5) (CVTS2B12#2,3) (CVTS3B12#2,3) (CVTS4B12#1,2,3,4,5)
(CVTS5B12#4) (TS2B12#2) (TS3B12#3) (TS4B12#3)

GTCC.RCT.2 Building Materials

The student will be aware of and show knowledge of

- a. Building materials
- b. Fasteners
- c. Adhesives

(WCS1B12#2) (WCS2B12#2,3,4) (WCS3B12#1,2,3,4) (WCS4B12#1,2,3)
(WCS5B12#1,2,3,4,5) (WCS6B12#1,2,3) (CVTS1B12#1) (CVTS2B12#1,4)
(CVTS4B12#1,2,3,5) (CVTS5B12#1,3,4) (TS1B12#2,4) (TS2B12#3,1)
(TS3B12#3) (TS4B12#1,2,3) (EU 1,3)

EU 1,3 Example adobe, apartment complexes, Mohawk steel workers and sky walkers. The book "American Indian Contributions to the World -- 15,000 years of Inventions and Innovations" by Emory Dean Keoke and Kay Marie Porterfield - Published by Checkmark Books An imprint of Facts On File, Inc. 132 West 31st Street New York NY 1000.

Provides an alphabetized list of native American contributions to science and technology

<https://mexikaresistance.files.wordpress.com/2013/09/american-indian-contributions-to-the-world.pdf>

GTCC.RCT.3 Hand and power tools

The student will demonstrate proper use and maintenance of hand and power tools. (WCS1B12#4) (WCS2B12#2) (WCS3B12#1) (WCS4B12#1) (WCS5B12#1,2,3,4,5) (WCS6B12#1,2,3) (CVTS1B12#1) (CVTS2B12#3,4) (CVTS3B12#1,2,3,4) (CVTS4B12#1,2,3,4,5) (CVTS5B12#1,2,3,4) (TS1B12#2,4) (TS2B12#1,2,3,4) (TS3B12#5) (TS4B12#1,2,3)

GTCC.RCT.4 Plans

The student will demonstrate the ability to read and understand, including but not limited to; construction plans, blue prints, elevation, and cost estimates. (WCS1B12#1,2,3,4) (WCS2B12#2,3) (WCS3B12#1,2,3,4) (WCS4B12#3) (WCS5B12#1,2,3,4,5) (WCS6B12#2,3,6) (CVTS1B12#1,2,3) (CVTS2B12#1,2,3,4) (CVTS3B12#1,2,3,4,5,6) (CVTS4B12#1,2,3,4,5) (CVTS5B12#1,2,3,4) (TS1B12#1,2,3,4,5) (TS2B12#1,2,3,4) (TS3B12#1,2,4,5) (TS4B12#1,2,3)

GTCC.RCT.5 Foundation

The student will show knowledge of surveying, footings, concrete, and other foundation systems. (WCS1B12#1,2,3,4) (WCS2B12#1,2,3,4,5) (WCS3B12#1,2,3,4) (WCS4B12#1,2,3) (WCS5B12#1,2,3,4,5) (WCS6B12#1,2,3,6) (CVTS1B12#1,2,3) (CVTS2B12#1,2,3,4) (CVTS3B12#1,2,3,4,6) (CVTS4B12#1,2,3,4,5) (CVTS5B12#1,2,3,4) (TS1B12#1,2,3,4,5) (TS2B12#1,2,3,4) (TS3B12#1,2,4,5) (TS4B12#1,2,3)

GTCC.RCT.6 Framing

The student will demonstrate knowledge of, including but not limited to; flooring, wall, ceiling, roof, and stair systems. (WCS1B12#1,2,3,4) (WCS2B12#1,2,3,4,5) (WCS3B12#1,2,3,4) (WCS4B12#1,2,3) (WCS5B12#1,2,3,4,5) (WCS6B12#1,2,3,6) (CVTS1B12#1,2,3) (CVTS2B12#1,2,3,4) (CVTS3B12#1,2,3,4,6) (CVTS4B12#1,2,3,4,5) (CVTS5B12#1,2,3,4) (TS1B12#1,2,3,4,5) (TS2B12#1,2,3,4) (TS3B12#1,2,4,5) (TS4B12#1,2,3) (EU 1,3)

EU 1,3 Example: adobe, apartment complexes, Mohawk steel workers and sky walkers. The book “American Indian Contributions to the World -- 15,000 years of Inventions and Innovations” by Emory Dean Keoke and Kay Marie Porterfield - Published by Checkmark Books An imprint of Facts On File, Inc. 132 West 31st Street New York NY 1000.

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GTCC.RCT.7 Exterior Finish

The student will be aware of window, door, siding, and insulation/ installation procedures. (WCS1B12#1,2,3,4) (WCS2B12#1,2,3,4,5) (WCS3B12#1,2,3,4)

(WCS4B12#1,2,3) (WCS5B12#1,2,3,4,5) (WCS6B12#1,2,3,6)
(CVTS1B12#1,2,3) (CVTS2B12#1,2,3,4) (CVTS3B12#1,2,3,4,6)
(CVTS4B12#1,2,3,4,5) (CVTS5B12#1,2,3,4) (TS1B12#1,2,3,4,5)
(TS2B12#1,2,3,4) (TS3B12#1,2,4,5) (TS4B12#1,2,3)

GTCC.RCT.8 Interior

The student will become aware of topics, including but not limited to;

- a. Interior finishes
- b. (wiring) Electrical
- c. Plumbing
- d. HVAC
- e. Low Voltage systems

(WCS1B12#1,2,3,4) (WCS2B12#1,2,3,4,5) (WCS3B12#1,2,3,4)
(WCS4B12#1,2,3) (WCS5B12#1,2,3,4,5) (WCS6B12#1,2,3,6)
(CVTS1B12#1,2,3) (CVTS2B12#1,2,3,4) (CVTS3B12#1,2,3,4,6)
(CVTS4B12#1,2,3,4,5) (CVTS5B12#1,2,3,4) (TS1B12#1,2,3,4,5)
(TS2B12#1,2,3,4) (TS3B12#1,2,4,5) (TS4B12#1,2,3)

GTCC.RCT.9 Landscaping

The student will show knowledge of decking, lawns, trees, etc.

(WCS1B12#1,2,3,4) (WCS2B12#1,2,3,4,5) (WCS3B12#1,2,3,4)
(WCS4B12#1,2,3) (WCS5B12#1,2,3,4,5) (WCS6B12#1,2,3,6)
(CVTS1B12#1,2,3) (CVTS2B12#1,2,3,4) (CVTS3B12#1,2,3,4,6)
(CVTS4B12#1,2,3,4,5) (CVTS5B12#1,2,3,4) (TS1B12#1,2,3,4,5)
(TS2B12#1,2,3,4) (TS3B12#1,2,4,5) (TS4B12#1,2,3)