

Grade 9 Exploration of Technical-Vocational Education: Manitoba Technical-Vocational Curriculum Framework of Outcomes

Technical-Vocational Education Overview

In 2013, Manitoba Education released the document *Technical-Vocational Education Overview* <http://www.edu.gov.mb.ca/k12/cur/teched/sy_tech_program.html> to provide the philosophical and pedagogical underpinnings for curriculum development and the teaching of technical-vocational education (TVE) courses in Manitoba.

This overview presents educators with the vision and goals of TVE in Manitoba. Topics include the following:

- curriculum revitalization and renewal
- curriculum framework and implementation
- articulation
- assessment and reporting
- safety
- employability/essential skills and career development
- sustainable development

Introduction to Exploration of Technical Vocational Education

Exploration of Technical Vocational Education: Manitoba Technical-Vocational Curriculum Framework of Outcomes identifies the goals, general learning outcomes (GLOs), and specific learning outcomes (SLOs) for this course. This framework is intended for use in all Manitoba schools teaching any of the TVE clusters as part of the Senior Years Technology Education Program.

Curriculum Description

Exploration of Technical Vocational Education is a generic Grade 9 full-credit or half-credit optional course which can be used as part of **one or more** TVE clusters. It allows students to explore one or more trade and/or trained occupation. Consider the following scenarios:

- A school might offer it as a half-credit or full-credit course in which students learn about one TVE cluster - Automotive Technology, for example.
- A school might offer it as a full-credit or full-credit course in which students in which students learn about more than one TVE cluster - Hairstyling, Culinary Arts, and Photography, for example.

This course provides students with the opportunity to become familiar with one or more TVE clusters, allowing them to make an informed decision before enrolling in one. Descriptions of these clusters, along with their curricula, are found here:

http://www.edu.gov.mb.ca/k12/cur/teched/sy_tech_program.html

Delivery of Grade 9 Exploration of Technical Vocational Education

Manitoba Education and Training (MET) has developed all TVE courses, including *Grade 9 Exploration of Technical-Vocational Education*, for example, to be taught by vocationally certified teachers, who have:

- have industry certification (trained journeyman status, for example)
- have experience working in that trade or trained occupation
- hold a Technical Vocational Teacher Education Certificate from MET.

This course has been developed to be taken as part of a complete cluster of TVE courses taught in its entirety. This provides students with an opportunity to advance along a specific vocational path. This is different from non-TVE subject areas where some courses are designed to be taken by themselves.

Grade 9 Exploration of Technical Vocational Education Goals, General Learning Outcomes (GLOs) and Specific Learning Outcomes (SLOs)

Grade 9 Exploration of Technical-Vocational Education: Manitoba Technical- Vocational Curriculum Framework of Outcomes identifies SLOs for use in all Manitoba schools teaching *Grade 9 Exploration of Technical-Vocational Education* as part of the Senior Years Technology Education Program. SLO statements define what students are expected to achieve by the end of a course.

The learning outcomes for *Grade 9 Exploration of Technical-Vocational Education* were developed based on the following program goals and general learning outcomes:

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15S / 15E / 15M

10S / 10E / 10M

Goal 1: Describe and demonstrate **workplace safety** practices.

GLO 1.1: Describe and demonstrate **safety in the workplace**.

- Describe and demonstrate safety in the workplace.
- Identify and describe hazards in the workplace.
- Demonstrate awareness of Personal Protective Equipment.
- Maintain a safe, clean and orderly work area.

Goal 2: Describe and demonstrate the use and management of **equipment, tools, implements, materials & products** used in the trade(s) and/or trained occupation(s).

GLO 2.1: Describe and demonstrate the use and management of **equipment, tools, implements, materials & products** used in the trade(s) and/or trained occupation(s).

- Describe and demonstrate the use and management of equipment, tools, implements, materials and/or products used in the trade(s) and/or trained occupation(s).

Goal 3: Describe and demonstrate the knowledge and skills related to **processes** in the trade(s) and/or trained occupation(s).

GLO3.1: Describe and demonstrate the knowledge and skills related to **processes** in the trade(s) and/or trained occupation(s).

- Describe and demonstrate the knowledge and skills related to **processes** in the trade(s) and/or trained occupation(s).

Goal 4: Demonstrate awareness of the **evolution, technological progression** and **new trends** in the trade(s) and/or trained occupation(s).

GLO 4.1: Demonstrate awareness of the **evolution, technological progression** and **new trends** in the trade(s) and/or trained occupation(s).

- Demonstrate awareness of the evolution and/or technological progression and / or new trends in the trade(s) and/or trained occupation(s).

Goal 5: Demonstrate understanding of the **structure and scope** of the trade and/or trained occupation(s), including **apprenticeship, educational and career opportunities**.

GLO 5.1: Demonstrate understanding of the **structure and scope** of the trade(s) and/or trained occupation(s), including **apprenticeship, educational and career opportunities**.

- Demonstrate awareness of the structure and scope of the trade(s) and/or trained occupation(s).
- Demonstrate awareness of the apprenticeship, educational and career opportunities of the trade(s) and/or trained occupation(s).

Goal 6: Demonstrate awareness of transferable **cross-curricular** knowledge and skills.

GLO 6.1: Demonstrate awareness of the transferable cross-curricular knowledge and skills found in other subject areas, and used in the trade(s) and/or trained occupation(s).

- Demonstrate awareness of the transferable cross-curricular knowledge and skills found in other subject areas, such as the language arts, mathematics, the sciences, the arts, etc. , and used in the trade(s) and/or trained occupation(s).

Goal 7: Demonstrate awareness of **sustainability**.

GLO 7.1: Demonstrate awareness of **human sustainability**.

- Demonstrate awareness of the long-term health concerns related to the trade(s) and/or trained occupation(s).
- Describe the purpose of the trade(s) and/or trained occupation(s), and their benefits to those who use their products or services.

GLO 7.2: Describe **sustainability practices and their impact on the environment**.

- Describe sustainability practices in the trade(s) and/or trained occupation(s) and their impact on the environment.

GOAL 8: Demonstrate awareness of the **ethical and legal standards** pertaining to the trades(s) and/of trained occupation(s).

GLO 8.1: Demonstrate awareness of the **ethical and legal standards** pertaining to the trades(s) and/of trained occupation(s).

- Demonstrate awareness of ethics as they relate to the trade(s) and/or trained occupations(s).
- Demonstrate awareness of legal standards as they relate to the trade(s) and/or trained occupations(s).

Goal 9: Demonstrate fundamental **employability skills**.

GLO 9.1: Demonstrate fundamental **employability skills**

- Demonstrate awareness of professional rapport with teachers, employers, co-workers, students and clients.
- Demonstrate awareness of the need for punctuality and reliability in the workplace.
- Demonstrate organizational skills.
- Demonstrate ability to follow instructions.
- Demonstrate teamwork skills.

GLO 9.2: Demonstrate awareness of the role of **culture** in the workplace.

- Define and discuss culture, as it relates to the trade(s) and/or trained occupation(s).

GLO 9.3: Demonstrate **critical thinking skills**.

- Define and discuss critical thinking, and how they are used in the trade(s) and/or trained occupation(s).