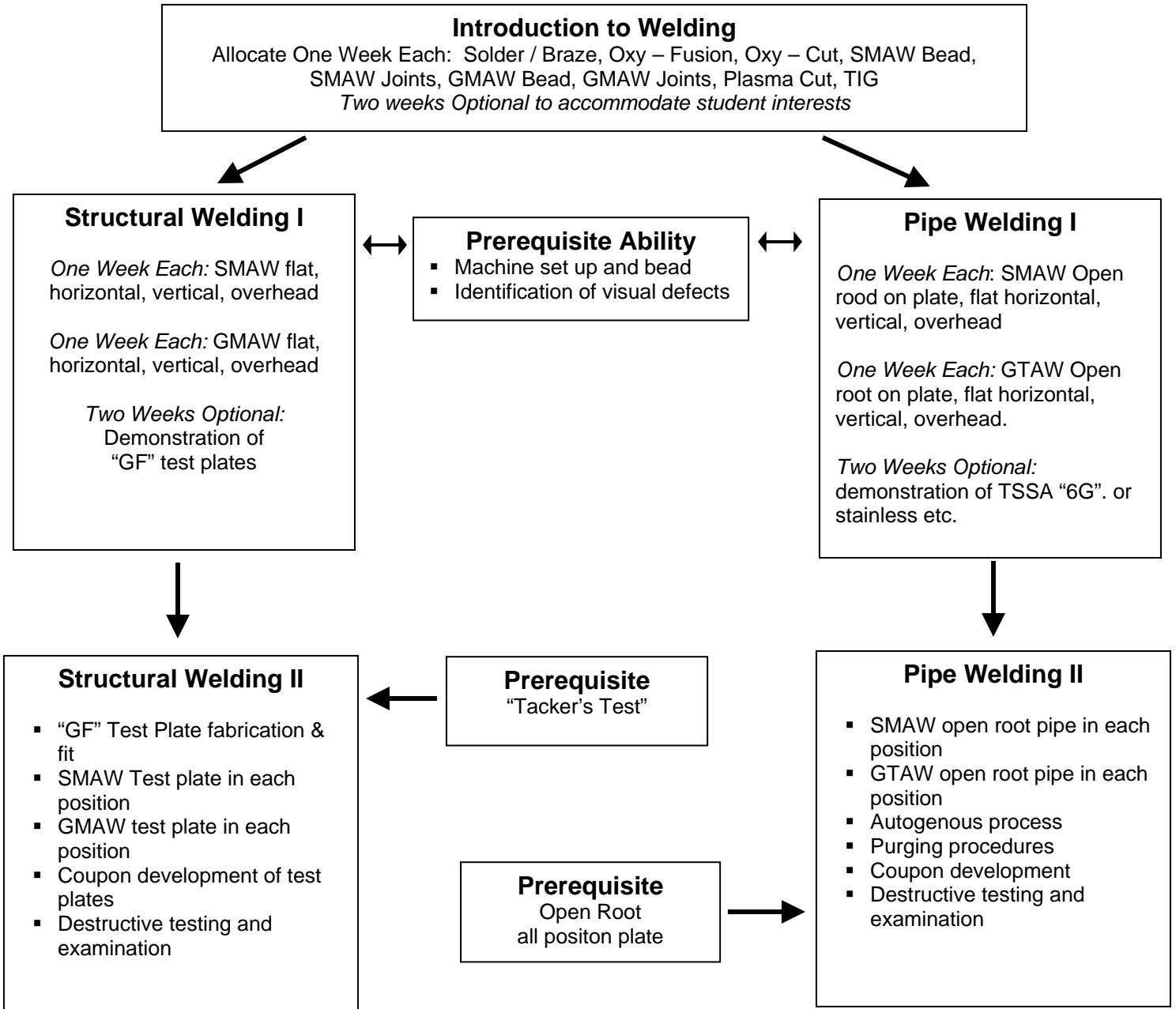


# Welding Evening Classes Outline



## Power & Equipment Centre

### ***Introduction to Welding:***

***30 hrs (10 evenings)***

***No Prerequisite***

This course is designed to help individuals with very little or no welding experience, develop a level of competency using a variety of common welding processes and machinery.

This basic level focuses on an introductory set up, application, and safety aspects of Braze / Solder processes, Oxy / Fuel cutting & welding processes, Shielded Metal Arc (stick) welding & cutting processes, MIG welding, Plasma cutting, and TIG welding applications.

The majority of this hands on course is designed to address the beginning of welding ability, knowledge, and “weld defect identification”, as necessary for a home Shop hobbyist, Farm applications, and basic skill requirements of most mechanical applications.

### ***Structural Welding Techniques I:***

***30 hrs (10 evenings)***

***Prerequisite: Basic Welding or skill screening in our lab***

This course is designed to instruct individuals with some welding experience, on the proper techniques necessary in the development of their welding skills. This course will address as brief discussion in our lab, basic terminology, joints / positions, recognition of weld defects, causes and cures, and visual inspections.

The majority of time will be spent hands on SMAW (stick-arc) and GMAW (MIG) welding processes in our lab with CWB certified instructors. Skill development will include single & multiple pass fillet and groove welds, in the flat, horizontal, vertical and overhead weld positions.

Techniques will include string beads, weaving, and capping using common electrodes.

### ***Structural Welding Techniques II::***

***30 hrs (10 evenings)***

***Prerequisite: Structural Welding I, or skill screening in our lab***

This course is designed for individuals with career oriented welding experience, working toward the proper welding techniques necessary, for Technical Safety Standards Association, or Canadian Welding Bureau accreditations. We will address as brief discussion, many issues related to pre-approved certification procedures, processes and weld positions. The majority of time will be spent hands on SMAW (stick) and GMAW (MIG) welding processes, welding in lab with CWB certified instructors.

Skill development will include backing plate joint designs, in all positions using multiple pass groove welds, as well as skills required in coupon & bend test specimen development.

Techniques will include weld joint fit up, Stop / Starts, stringer beads, weaving, and capping, interpass cleaning using industry specific electrodes.

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### ***Introduction to Welding:***

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This basic level focuses on an introductory set up, application, and safety aspects of Braze / Solder processes, Oxy / Fuel cutting & welding processes, Shielded Metal Arc (stick) welding & cutting processes, MIG welding, Plasma cutting, and TIG welding applications.

The majority of this hands on course is designed to address the beginning of welding ability, knowledge, and “weld defect identification”, as necessary for a home Shop hobbyist, Farm applications, and basic skill requirements of most mechanical applications.

### ***Pipe Welding Techniques I::***

***30 hrs (10 evenings)***

***Prerequisite: Basic Welding or skill screening in our lab***

This course is designed to instruct individuals with some welding experience, on the proper techniques necessary in the development of their welding skills. This course will address as brief discussions in our lab, basic terminology, joints / positions, recognition of weld defects, causes and cures, and visual inspections.

The majority of time will be spent hands on SMAW (stick-arc) and GTAW (TIG) welding processes, in our lab with CWB / TSSA certified instructors.

Skill development will include joint preparation and design, tacking procedures, open root and autogenous welds and typical repair procedures.

Techniques will include stringer beads, weaving, and capping, using common electrodes in all positions.

### ***Pipe Welding Techniques II::***

***30 hrs (10 evenings)***

***Prerequisite: Pipe Welding I or skill screening in our lab***

This course is designed for individuals with career oriented welding experience, working toward the proper welding techniques necessary for Technical Safety Standard Association or Canadian Welding Bureau accreditations. We will address as brief discussion, many issues related to pre-approved certification procedures, processes and weld positions. The majority of time will be spent hands on SMAW (stick), and GTAW (TIG) welding processes welding in our lab with CWB / TSSA certified instructors.