

**Vocational Training Council**  
**Pro-Act Training and Development Centre (Welding)**

**Course Curriculum**

<b>Course Title:</b>	TIG Welding (Mild steel & Stainless Steel) Course
<b>Course code:</b>	WE5106143
<b>Offered By:</b>	Pro-Act Training and Development Centre (Welding)
<b>Location:</b>	Level 7, Block B, 13-19 San Kwai Street, VTC Kwai Chung Complex, Kwai Chung, NT.
<b>Skill Level:</b>	Operative
<b>Class Size:</b>	10
<b>Duration:</b>	22.5 hours (9 evenings)
<b>Course Mode:</b>	Part-time evening
<b>Medium of Instruction:</b>	English

**Course Objective**

The course has been designed for NCS beginners who intend to obtain training in Tungsten Inert Gas Arc Welding (TIG). The course aims to provide a basic TIG training in the aspect of mild steel and stainless steel sheets in order to cope with the demand of the industry. The course provides comprehensive coverage of both the theory and practice at a ratio 20/80 approximately.

**After completion the course, trainees will be able to:**

- (1) Set-up and operate safely in TIG welding.
- (2) State the definition, advantages and limitations of TIG welding.
- (3) List out the factors governing the quality.
- (4) Select and distinguish different types of tungsten electrodes and protective gases commonly used in TIG welding of mild steel and stainless steel.
- (5) State the general defects and the prevention in TIG welding.
- (6) Make use of the process to perform a simple welded joint on mild steel and stainless steel.

## **Course Outline**

- (1) Appreciate and recognize the use and the safety precautions of all equipment, tools and accessories used in TIG welding.
- (2) Definition and basic operating principles of TIG welding process.
- (3) Advantages and limitations of TIG welding.
- (4) Effects of TIG welding parameters, such as welding current, protective gases, shape of tungsten electrode tip, etc.
- (5) Types of general defects, formation and prevention of the defects.
- (6) Functions, specifications and selection of tungsten electrodes, welding rod and protective gases.
- (7) General welding workshop practices.

## **Entry Requirements**

Employed in the relevant trade and sponsored by their employers; or supported by Nepalese Construction Workers Union, Hong Kong (NCWUHK).

## **Attendance Requirement**

Trainee with attendance less than 70% is considered to be failed the practical portion.

## **Award**

Completion Certificate

## **Evaluation**

Survey will be taken from trainees in form of questionnaire at the end of the course.