

## Тема занятия: «Профессиональные навыки сварщика»

**Цель занятия:** выучить новый лексический материал по теме «Профессиональные навыки сварщика»; совершенствовать навыки чтения и перевода текста профессионального направления; систематизировать знания, ответив на вопросы по теме занятия.

Уважаемые студенты! Ознакомьтесь с материалами лекционного занятия на тему «Профессиональные навыки сварщика». Конспект практического занятия выполняйте **в рабочей тетради письменно, обязательно указывая дату занятия, тему занятия, номер упражнения.** Ответы предоставить преподавателю на проверку **до 24. 02. 2023 г.** в электронном виде (**фотоотчёт**) на e-mail [mikagol2605@mail.ru](mailto:mikagol2605@mail.ru). Телефон преподавателя для консультации и возникающих вопросов: 072-14-15-816.

С уважением, Голодюк Марина Викторовна.

1. Запишите новую лексику в словарь, выучите новую лексику.
2. Прочитайте и устно переведите текст «Welding Skills».
3. Дайте письменно ответы на вопросы к тексту.

## Welding Skills

### Vocabulary

journeyman (person) – наемный квалифицированный рабочий

apprentice – ученик

plate working – обработка листового металла

blueprint – 1) делать светокопию, копировать чертеж 2) делать разметку

brazing – пайка твердым припоем (из меди и цинка)

GTA (gas tungsten arc) welding – сварка неплавящимся электродом

TIG (tungsten inert gas welding) – дуговая сварка вольфрамовым электродом в среде инертного газа

SMAW (shielded metal arc welding) – дуговая сварка покрытым металлическим электродом

SAW (submerged arc welding) – (дуговая) сварка под флюсом

resistance welding – (контактная) сварка сопротивлением

flux core – флюсовая сердцевина ( порошковой проволоки )

metal core – металлический сердечник

shift work – (по)сменная работа, работа по сменам

A Welder permanently joins pieces of metal with metal filler, using heat and/or pressure. Welders join parts being manufactured; they build structures and repair broken or cracked parts, according to specifications. **Job Related Skills, Interests and Values**

- using and maintaining tools, material handling equipment and welding equipment;
- reading and interpreting **blueprints**;
- acquiring thorough knowledge of arc, gas and **resistance welding** theory ;
- laying out, cutting and forming metals to specifications;
- preparing the work site;
- fitting sub-assemblies and assemblies together and preparing assemblies for welding;
- welding using **shielded metal arc welding**, gas metal arc welding, **gas tungsten arc welding**, flux core or metal core arc welding, submerged arc welding and plasma arc welding processes;
- carrying out special processes such as welding studs and brazing;
- ensuring quality of product/process before, during and after welding;

### **What Preparation and Training Do You Need?**

To become a Welder you should complete Grade 12 with credits in mathematics (particularly technical math) and some shop courses. In Ontario, welding is an unrestricted trade; completion of an apprenticeship could take approximately 3 years including 3 periods of 8 weeks (720 hours) in-school theory. Upon successful

completion of the training agreement, you will receive a Certificate of Apprenticeship.

### **What's Your Future as a Welder?**

Most workers in this occupation work full-time, sometimes in shift work, usually indoors. Those with the ability to work with high-technology welding applications may have better employment opportunities. The bulk of employment opportunities are predicted to occur in the non-electrical, machinery, construction and metal-fabricating industries. Some workers will become self-employed. Examples of companies that employ welders include:

- Fabricating shops;
- Manufacturers of structural steel and **plate work**;
- Construction industries;
- Boilers;
- Heavy machinery contractors;
- Aircraft contractors;
- Ship building and other transportation contractors;
- Specialized welding shops.

### **Wage Rate**

- as an apprentice you would start at a wage rate less than that of a **journeyperson**
  - this rate increases gradually as you gain competency
  - the wage range for fully qualified welders according to the Peel Halton Dufferin HRDC Wage Book is between \$9.50/hr to \$16.18/hr, with a median salary of \$12.50/hr.

### **Дайте письменно ответы на вопросы:**

1. How long should a person be trained to become a skilled welder?
2. Do you think that a welder should be able to use all kinds of welding?
3. What is more interesting to you personally: welding techniques, welding inspection (other)?