



**ADVANCED WELDING TECHNIQUES INC.**

WELDER TRAINING FACILITY

# Welder's Booth

VOLUME 2, ISSUE 1

SPRING 2006



I would like to thank all of Advanced Welding Techniques past and present employees, students and clients for their efforts in enabling Advanced Welding Techniques to be celebrating 10 years of delivering quality training and consulting programs. Without the efforts of all individuals involved, we could not have become the successful team we are.

Sincerely yours,

*Jeanene Tucker, President*

## Editorial

Advanced Welding Techniques Inc. has just celebrated 10 years of delivering quality welder training and consulting at our training facility located on Hamilton Mountain at 1016 Upper Wellington Street.

As we celebrate our success, we have to look at the past to realize all the reasons that have enabled us to reach this milestone.

From our humble beginnings in 1995 --- six old machines, borrowed equipment and a dream to be the top training facility in Ontario to where we stand today. After 10 years of building on our dream and continuing to work at improving our programs, our facility is one of the most modern equipped facilities in Ontario (22 welding machines and modern equipment) and our staff is one of the most qualified and diversified in the welding trades.

We have to thank all our

previous instructors and staff starting in the first year with Joe Williamson, Bryan Drew, Bob Hunt, Bill Scott, Ray McCallum, Richard Potter and Bob Denison. They were instrumental in the development of our strong team efforts in building quality programs to benefit our growing student base and company clients. Without these qualified and patient teachers and staff, our students would not be as successful as they are today, which in turn makes us successful as well.

We have to thank our students (former and present) for taking the knowledge and opportunities that we offer and transferring them into a successful and rewarding career. Thank you for all your continuing referrals to friends and family that still constitute 50% of our business. Without you, our jobs would be meaningless.

Thank you to our suppliers who have stayed loyal through good and bad times, especially Frank and his staff at Weld-Tech

Products. Your support has given us the stability we have today and we are ready to move on to the next level of success.

Our current staff continues to implement our training philosophies and initiatives to the standards that are expected of Advanced Welding Techniques. We will continue to do so, thus enabling our current students the training and opportunities that other students in the past have benefited from. Our students' success is our goal and that will never change. We will continue pursuing new and exciting directions in welder training and consulting and deliver it to our students and clients to the best of our ability.

Kenneth Tucker had a dream to be the best welding school in Ontario. Today, with the help over the years of everyone that has worked for us and all former students and clients, we feel that the dream has become reality and we will strive to stay there.

*-- Wayne Drake, General Manager*

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## Welding News Interprovincial "Red Seal" Program

This condensed four-module certificate program provides the necessary theoretical material for those welders interested in challenging the Interprovincial "Red Seal" Welder Exam.

Designed for experienced welders looking for mobility between provinces and those interested in supervising future apprentices through new and existing provincial apprenticeship programs. The program is designed for home study or

formal classroom training. The material covers the scope of the National Welder Occupation Analysis and is an excellent review package for apprentices challenging their certification examination.

Courses offered by Gooderham Centre for Industrial Learning. For more information, visit [www.qciltraining.org](http://www.qciltraining.org)

## Biography on ... Seth Holt



Seth Holt was born in Hamilton, Ontario and raised on a farm in Caistor Centre eventually moving to Hamilton where

he lived ever since. In 1996, he finished high school and worked in construction doing carpentry and concrete forming. In 1997, he came to Advanced Welding Techniques Inc.,

got his C.W.B. certifications and started his career as a welder.

Since then his career excelled, working for many large companies such as National Steel Car, Dominion Casting, LeFarge and more. Within a short period on leaving Advanced Welding Techniques Inc., he became a 1<sup>st</sup> class lead hand and eventually moved on to become a weld shop supervisor in a custom Fabricating shop.

In 2004, he certified himself through Goodham Centre in W47.1, W47.2, W59.1, W59.2, as well as weld faults, quality control and inspection. He is also certified under

C.W.B., A.W.S., T.S.S.A. and specializes in T.I.G. stainless and aluminum.

For the past 10 years he has been working and building a good reputation and continuously learning and training to improve himself as a skilled tradesman.

In February 2005 he left his supervising job and joined the team at Advanced Welding Techniques Inc. as an Instructor where he first started his career and looks forward to helping others become successful trades people like himself.

His hobbies include Texas Hold'em Poker as well as working on classic cars and spending time with his beautiful wife and two children.

## Technical Q & A

### 1. What is M.I.G. Welding?

M.I.G. stands for Metal Inert Gas, which is short form for Gas Metal Arc Welding (G.M.A.W.).

Gas Metal Arc Welding is a semi-automatic welding process. The process itself consists of a wire fed gun and a shielding gas to protect the arc. The process has three methods of metal transfer, globular transfer and short

circuiting transfer (Short Arc). These different methods allow you to weld a large range of metal thickness.

### 2. What would be the advantages of using the Flux Cored welding process?

Flux Cored welding has replaced some applications formally welded with the G.M.A.W. or S.A.W. (Shielded Arc Welding) processes. The advantage

of using a Flux Cored wire is higher deposition rate, better metal penetration, smoother arc stability, good mechanical properties, less spatter and its rutile slay system gives it a higher weld appeal.

### 3. What is the reason for purging stainless steel tube or pipe?

The reason for purging is to protect the root from atmospheric contamination. If the root of the weld has been contaminated (oxidized), there would be a danger of damaging the product flowing through the line.

## About Our Programs

### 16-week "Welder Trade Certification Program"



This program will train students in G.M.A.W. (Gas Metal Arc Welding) (Manufacturing, Structural & Pressure), F.C.A.W. (Flux

Cored Arc Welding) (Manufacturing, Structural & Pressure), S.M.A.W. (Shielded Metal Arc Welding) (Structural & Pressure Pipe) and G.T.A.W. (Gas Tungsten Arc Welding) (Carbon, Stainless Steel & Aluminum), as well as, Blueprint Reading,

Oxy-Fuel Cutting & Safety, Carbon Arc Gouging and Welding Safety.

Upon completion, the student has the opportunity to be certified in C.W.B. (Canadian Welding Bureau), G.M.A.W. & F.C.A.W. Flat Plate Test, S.M.A.W. All Position, as well as, a T.S.S.A. (Technical Standards & Safety Authority) G.M.A.W. and F.C.A.W. 1G position and pressure pipe for 6010 root & 7018 cap in the 6G position on 2" schedule 80 pipe.

With these certifications, graduates will have the opportunity to seek work in companies that weld to manufacturing,

structural or pressure vessel codes or pursue opportunities in the local trade unions.

The course's duration is 16 weeks or 640 hours of training. Job Placement Assistance available upon completion of the program.

The following programs are also offered:

- 2-week Manufacturing Program
- 8-week Welder Operator Program
- 12-week Welder Trade Certification Structural Program

**Call for more information at:  
1-800-794-7840 or visit our website:  
[www.advancedwelding.ca](http://www.advancedwelding.ca)**

## Company Spotlight . . . JL Metals Inc.

### JL METALS INC.

JL Metals Inc. is a company located in Stoney Creek, Ontario, specialized in Shearing, Forming and Punching. They are ISO 9001-2000 certified.

#### CAPABILITIES

They have 3 shears:

- one ½" Cincinnati 12' capable of holding a tolerance of +/- 1/16
- one ¼" Niagara 12' capable of holding a tolerance of +/- 1/32, with 999 program capability.
- one ½" Cincinnati 12' with a CNC back gauge capable of +/- 1/32 on various

gauges and +/- 1/16 on 3/8" and ½" plate.

They also have a Peddinghaus Model 210/20 Ironworker, which they use for shearing small parts (ie 4 x 6), punching holes with the diameter and location their customers require and notching.

They have a 250 Ton HACO Press Brake with CNC-550 program capability. Incoming customers material must be no more than 1/32 off square.

They carry approximately 2,000,000 lbs. of common gauge steel plate and sheet in inventory at competitive prices. i.e. ¼, ½, 3/8, 3/16, 5/16 or 10 to 28 gauge in either Hot roll, Cold roll, Galvanized and Checker plate. Specialty steels can be made available upon request.

They also have the capabilities of doing some metal fabricating and some in-house and outside Welding.

#### SERVICES

JL Metals Inc. strives to provide their customers a service of ONE-STOP-SHOPPING for Shearing, Forming and Punching.

Their business hours are from 7:00 a.m. to 5:00 p.m., Monday to Friday. Their customers are important to them and they strive for excellence in their product and in assisting their customers in meeting their needs.

For further information, you may contact Jack Walton or Dave Albert at JL Metals Inc. (Tel.: 905-643-0016) or e-mail at [jlmetal@on.aibn.com](mailto:jlmetal@on.aibn.com).

## Alumni News



Advanced Welding Techniques Inc. has just celebrated 10 years of providing quality training programs to our students.

We would like to thank all our former students for their support in enhancing our reputation as a quality deliverer of welder training and by their performance in the workforce when they graduate.

We would like to remind all former students that our facility and job finding resources are available to any former student and I would

recommend that you utilize these options if needed. Ticket updates or resume updating services are also available. Call us for more details at 1-800-794-7840 or 905-575-8311.

Check out our cool website at [www.advancedwelding.ca](http://www.advancedwelding.ca) for the most recent news. Watch Bikertv.ca on Saturday morning at 10:30 am on Global to see our new commercial.

## Employment News

All past students are welcome to use our job finding services:

- Assistance with resume preparation
- Using industry contacts for job opportunities
- Faxing or e-mailing letters and resumes

Call our Assistant Manager, Connie Riley at 1-800-794-7840 or e-mail at [info@advancedwelding.ca](mailto:info@advancedwelding.ca)

#### Interesting sites where students can get information on the job market:

- [www.employmentnews.ca](http://www.employmentnews.ca) (Government of Canada)
- [www.edu.gov.on.ca](http://www.edu.gov.on.ca) (Ministry of Education)
- [www.hrsdc.gc.ca](http://www.hrsdc.gc.ca) (Human Resources and Skills Development Canada)
- [www.skillsCanada.com](http://www.skillsCanada.com) (Skills/Competences Canada)

#### Visit any of the following links for job opportunities:

- [www.canadiancareers.com](http://www.canadiancareers.com)
- [www.canjobs.com](http://www.canjobs.com)
- [www.careerbuilder.com](http://www.careerbuilder.com)
- [www.careers.ca](http://www.careers.ca)
- [www.employmentnews.com](http://www.employmentnews.com)
- [www.hotjobs.ca](http://www.hotjobs.ca)
- [www.monster.ca](http://www.monster.ca)
- [www.workopolis.com](http://www.workopolis.com)



**ADVANCED WELDING TECHNIQUES INC.**

“Training for Success”

**ADVANCED WELDING TECHNIQUES INC.**  
**Welder’s Booth Corporate Newsletter**

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Input for stories and articles given by the entire staff of  
 Advanced Welding Techniques.

We welcome submissions, technical questions and  
 feedback from our readers.

E-mail us at : [info@advancedwelding.ca](mailto:info@advancedwelding.ca)

## Associations & Useful Links

### Canadian Welding Association

2085 Hurontario St., Suite 255  
 Mississauga, ON L5A 4G1

Looking to increase membership

For more information, call:  
 905-848-9838

or visit their website at:  
[www.cwa-acs.org](http://www.cwa-acs.org)

### American Welding Society

[www.aws.org](http://www.aws.org)

### Canadian Welding Bureau (C.W.B.)

[www.cwbweb.com](http://www.cwbweb.com)

### Technical Standards & Safety Authority (T.S.S.A.)

[www.tssa.org](http://www.tssa.org)

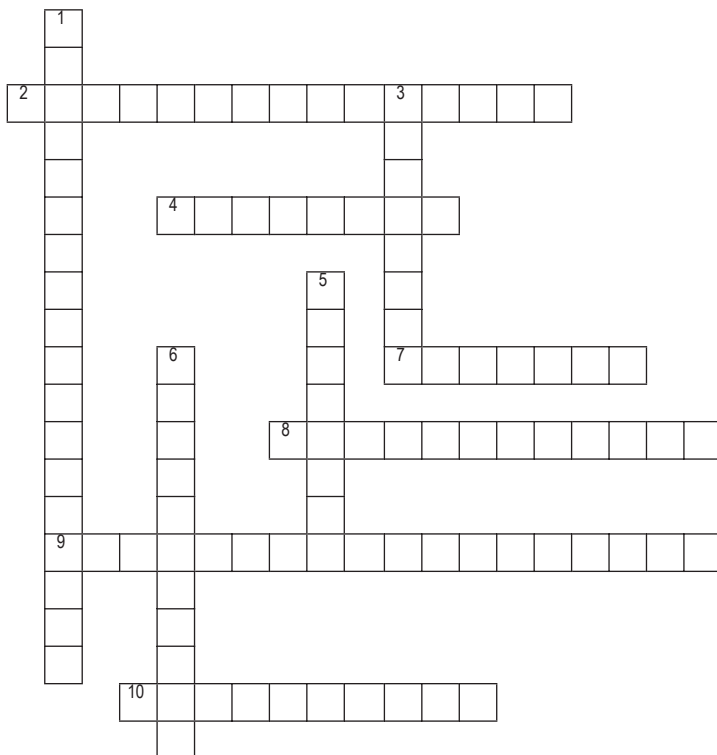
## Enquiries

For all technical enquiries, companies should call our Technical Consultant, Stewart Henderson at 800-794-7840 or e-mail him at: [technical@advancedwelding.ca](mailto:technical@advancedwelding.ca)

**“IN-PLANT” TRAINING & CONSULTING SPECIALISTS**

Visit our website:  
[www.advancedwelding.ca](http://www.advancedwelding.ca)

## THE WELDER’S CROSSWORD



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- 4 Outcome of lack of shielding gas
- 7 A result of too much voltage
- 8 Excessive voltage again?
- 9 Two gasses commonly used for G.M.A.W. (3 words)
- 10 Device that delivers filler metal (2 words)

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- 3 Common protection worn by welders
- 5 Shielding gases are kept in one
- 6 Two ways of packaging filler metal (3 words)