CWBi
acorn

CONNECTING EDUCATION AND INDUSTRY
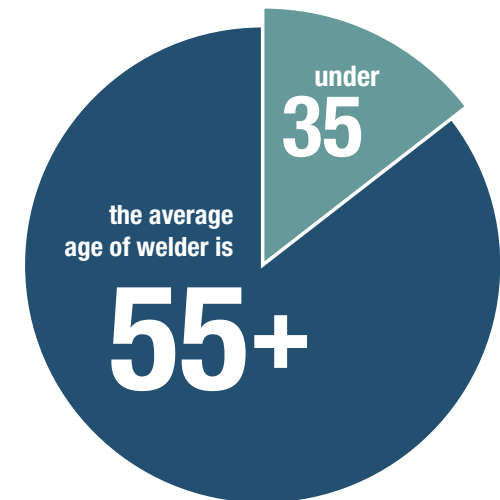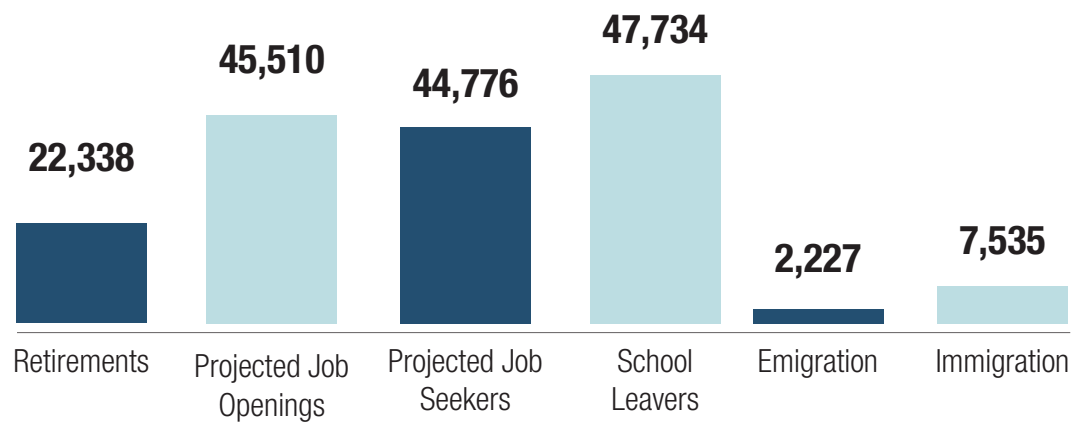
TRAIN, TEST, ASSESS AND RECRUIT

The CWB Group is investing now for a better future, and that starts with education. It is a key mission of the CWB Group to drive both knowledge and competency through the development of a new national training program for welding and fabrication professionals.

To show commitment to this program, the CWB Group is fully funding the development of Acorn, giving back to the industry that supports it, and creating the one thing industry needs most to succeed – well trained employees.

CANADA IS FACING SIGNIFICANT INDUSTRY CHALLENGES

That could affect the future of industry and the economy. Challenges such as skills shortages, skills benchmarking and the quality of training are all causes of concern. Acorn has been designed to fill these gaps, and provide a solution that works for all involved, without burdening students, the industry, or taxpayers.

Stats Canada report that welders have much to anticipate in the coming years. Over the period of 2013-2022, it is expected that a labour shortage will occur. During this period, it is expected that for metal forming, shaping and erecting occupations job openings are expected to total 45,510 with 44,776 job seekers expected to be available to fill these openings.

22,338	45,510	44,776	47,734	2,227	7,535
Retirements	Projected Job Openings	Projected Job Seekers	School Leavers	Emigration	Immigration

the average age of welder is

55+

under **35**

BENEFITS TO THE INDUSTRY, EDUCATION, GOVERNMENT AND PUBLIC SAFETY

Acorn was created to benefit welding professionals, those who have a desire to become a welding professional, the welding industry, local, provincial and federal governments, and most importantly, Canada.

Acorn is free to all high schools within Canada.

Acorn provides uniform training nationally, through an extremely affordable turn-key solution to our **public post-secondary institutions, trade schools and private career colleges**.

Acorn provides future welders and fabricators with the right tools at all stages allowing them to reach their career goals.

Career Stream - Acorn is built around the concept of career paths, with each career path having progressive levels of learning.

Learning Levels - Acorn typically provides at least two levels of training within each of the supported career paths: General Knowledge, Pre-Employment, Industry Specialization, Skills Specialization, Skills Upgrade.

Course Material - World-class content that has been developed from the ground up with the needs of today's learners and educators in mind. Currently this content represents over 10,000 pages of fully modern and up-to-date theory and practical exercises relating specifically to Acorn's key career paths.

Delivery Options - Acorn course and content has been developed to provide maximum flexibility in terms of its delivery. Depending on the subject, most courses provide up three common delivery methods: Classroom/in-shop, Online, Hybrid and Mobile.

Exercises, Exams, Quizzes and Assessments - All Acorn courses are supported by standardized testing developed to gauge a learner's uptake and retention of both theory and practical content.

Provides uniform training nationally

Beneficial to Canada

> To the Government
> To the Welding Industry
> To the Welding Professionals

Provides access to tools that help employers recruit the right staff

Self paced learning:
In class, online or mobile

Provides a **complete training system**

> Trade Awareness
> Pre-Employment
> Ongoing Skills Development
> Recruitment
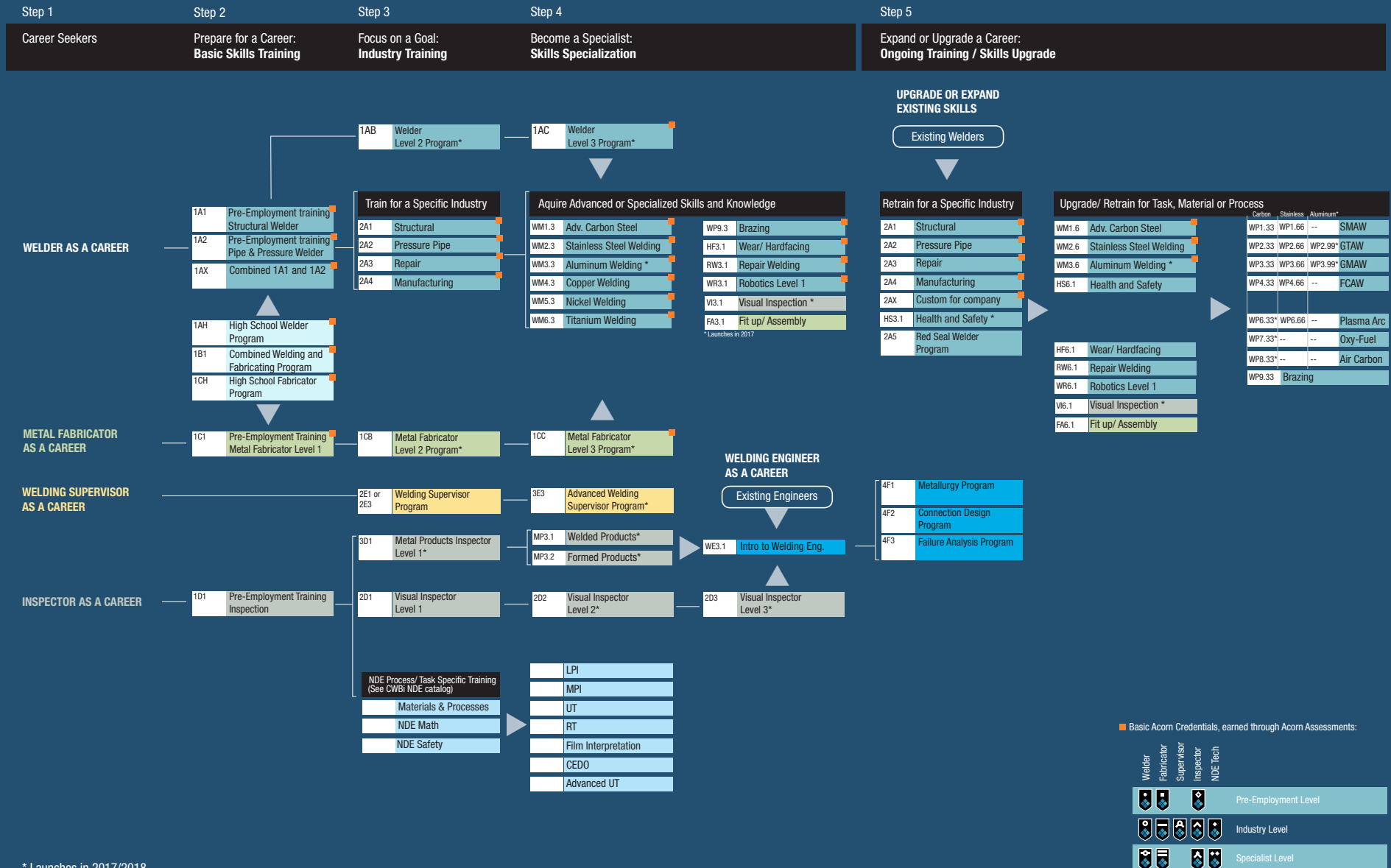> Adaptable to Apprenticeship Programs

Low cost centralized national training resource

Can be used By itself or incorporated into existing training programs

ACORN CAREER PATHS AND OPTIONS

Step 1	Step 2	Step 3	Step 4	Step 5
Career Seekers	Prepare for a Career: **Basic Skills Training**	Focus on a Goal: **Industry Training**	Become a Specialist: **Skills Specialization**	Expand or Upgrade a Career: **Ongoing Training / Skills Upgrade**

UPGRADE OR EXPAND EXISTING SKILLS

(Existing Welders)

| 1AB | Welder Level 2 Program* |
| 1AC | Welder Level 3 Program* |

WELDER AS A CAREER

1A1	Pre-Employment training Structural Welder
1A2	Pre-Employment training Pipe & Pressure Welder
1AX	Combined 1A1 and 1A2

Train for a Specific Industry
2A1	Structural
2A2	Pressure Pipe
2A3	Repair
2A4	Manufacturing

Aquire Advanced or Specialized Skills and Knowledge
WM1.3	Adv. Carbon Steel	WP9.3	Brazing
WM2.3	Stainless Steel Welding	HF3.1	Wear/ Hardfacing
WM3.3	Aluminum Welding *	RW3.1	Repair Welding
WM4.3	Copper Welding	WR3.1	Robotics Level 1
WM5.3	Nickel Welding	VI3.1	Visual Inspection *
WM6.3	Titanium Welding	FA3.1	Fit up/ Assembly

* Launches in 2017

Retrain for a Specific Industry
2A1	Structural
2A2	Pressure Pipe
2A3	Repair
2A4	Manufacturing
2AX	Custom for company
HS3.1	Health and Safety *
2A5	Red Seal Welder Program

Upgrade/ Retrain for Task, Material or Process
WM1.6	Adv. Carbon Steel
WM2.6	Stainless Steel Welding
WM3.6	Aluminum Welding *
HS6.1	Health and Safety

HF6.1	Wear/ Hardfacing
RW6.1	Repair Welding
WR6.1	Robotics Level 1
VI6.1	Visual Inspection *
FA6.1	Fit up/ Assembly

	Carbon	Stainless	Aluminum*	
	WP1.33	WP1.66	--	SMAW
	WP2.33	WP2.66	WP2.99*	GTAW
	WP3.33	WP3.66	WP3.99*	GMAW
	WP4.33	WP4.66		FCAW
	WP6.33*	WP6.66	--	Plasma Arc
	WP7.33*	--		Oxy-Fuel
	WP8.33*	--		Air Carbon
	WP9.33	Brazing		

METAL FABRICATOR AS A CAREER

1AH	High School Welder Program
1B1	Combined Welding and Fabricating Program
1CH	High School Fabricator Program

1C1	Pre-Employment Training Metal Fabricator Level 1
1CB	Metal Fabricator Level 2 Program*
1CC	Metal Fabricator Level 3 Program*

WELDING SUPERVISOR AS A CAREER

| 2E1 or 2E3 | Welding Supervisor Program |
| 3E3 | Advanced Welding Supervisor Program* |

WELDING ENGINEER AS A CAREER

(Existing Engineers)

| WE3.1 | Intro to Welding Eng. |

4F1	Metallurgy Program
4F2	Connection Design Program
4F3	Failure Analysis Program

3D1	Metal Products Inspector Level 1*
MP3.1	Welded Products*
MP3.2	Formed Products*

INSPECTOR AS A CAREER

1D1	Pre-Employment Training Inspection
2D1	Visual Inspector Level 1
2D2	Visual Inspector Level 2*
2D3	Visual Inspector Level 3*

NDE Process/ Task Specific Training (See CWBi NDE catalog)
| Materials & Processes |
| NDE Math |
| NDE Safety |

| LPI |
| MPI |
| UT |
| RT |
| Film Interpretation |
| CEDO |
| Advanced UT |

■ Basic Acorn Credentials, earned through Acorn Assessments:

Welder	Fabricator	Supervisor	Inspector	NDE Tech	
					Pre-Employment Level
					Industry Level
					Specialist Level

* Launches in 2017/2018

ACORN SYSTEM COMPONENTS

AcornCore

AcornCore is the administrative online portal for Acorn. It provides central course administration for instructors, allowing them to create courses, enroll students, access teaching resources, create licensed student material and review grades and progress.

AcornOnline

AcornOnline is Acorn's online learning management system. It is responsible for delivering online and distance learning course material as well as online theory exams and quizzes. AcornOnline is tied to AcornCore, allowing seamless delivery of in-class, in-shop and online content.

AcornMobile

AcornMobile is a free mobile application that handles the "in-hand" delivery of Acorn course material. AcornMobile is integrated directly into in-class student material and provides an additional interactive layer for viewing video, 3D objects and augmented reality environments.

AcornConnect

AcornConnect is Acorn's centralized assessment and recruiting portal. It provides an online front-end for administering Acorn's national skills assessments, as well as a national database of assessment takers tied to skills matching and recruiting functions for employers.

Web driven   **Print on demand**
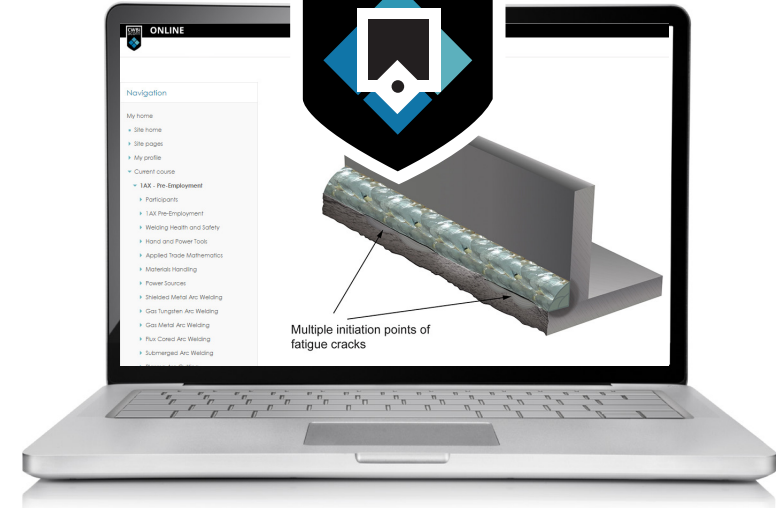
Self paced   **Fully Interactive**

AcornCore

AcornOnline
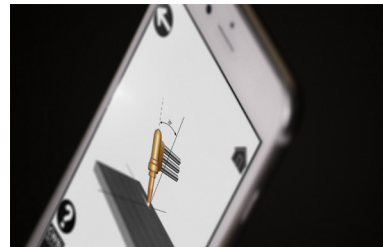
CWBi AcornMobile

✔ Interactive and engaging

AcornMobile

CWBi AcornConnect

✔ Skills Assessments   ✔ Comprehensive Report

AcornConnect

TOOLS FOR 21ST CENTURY LEARNING

3D Augmented Reality is embedded in all acorn course material and available through AcornMobile, the free mobile application developed specifically for use with Acorn learning materials. Designed to facilitate the "in-hand" delivery of support material within the Acorn program, it's main purpose is to put key learning material directly in the hands of the students. Intended to augment the material taught by the instructor.

AcornMobile provides:

• Access to key content, linked from QR codes within presentations, handouts and exercises
• Ability to link to and view and fully manipulate 3D and Augmented Reality models of practical exercises and reference objects
• Ability to view instructional videos tied to specific Acorn exercisers and lessons
• Ability to view quick-reference charts and graphics of key concepts
• Direct Integration with additional AcornMobilized products

**AcornMobile
Try it now**
in 4 easy steps!

1 Visit the App Store or Google Play,
search **AcornMobile** to download the app.
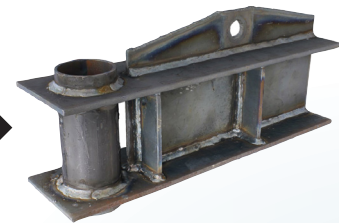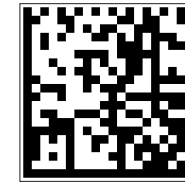
App Store   Google play

2 Open the **AcornMobile** app and enter your
Course Code: **0F6BBF36**

3 Using the mobile app, scan over top of the QR Code
to see a 3D model in augmented reality.
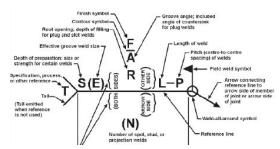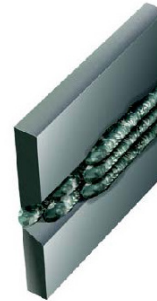Do not move phone away from QR Code until object
appears.

4 Click on Capture Model + to use your fingers to rotate
and zoom.
Use the arrow buttons ►◄ to pan left/right or up/down.

Embedded Reference Material

3D Models of work to be done

Step by step run through videos for each exercise

Interactive hands on learning.

Instructions and testing to industry standard, using real world resources.