#### SKILLEDTRADES<sup>BC</sup>

## Personal Record Book *Ironworker (Reinforcing)*

#### This is your Record Book!

### DO NOT SUBMIT TO SKILLEDTRADESBC

This is not required to achieve certification

- It is a record of your progress towards achieving certification in the trade
- It provides a record of your experience
- It is your responsibility to keep it up-todate
- Take it with you if you change employers

Note: Employers and supervisors are not responsible for keeping your Record Book up-to-date. They are responsible for sign-off of hours and sign-off of competencies once you have achieved the required level of skills and knowledge.

#### APPRENTICE IDENTIFICATION

#### Trade: IRONWORKER (REINFORCING)

Legal First Name:		Legal Last Name:	
Suite Number:	Street Number and	Name:	
City:		Province:	Postal Code:
Telephone Number:		Email Address:	
( )			

#### Work Safely!

A safe work attitude contributes to an accident free environment. Accident prevention and safe working conditions are the responsibility of both employers and employees.

Wear the required personal protective equipment, follow safe work practices and follow all safety regulations applicable to specific job activities.

#### Employer's responsibilities:

- Provide and maintain safety equipment and protective devices
- Ensure proper safe work clothing is worn
- Enforce safe work procedures
- Provide safeguards for machinery, equipment and tools
- Observe all accident prevention regulations
- Train employees in safe use and operation of equipment

#### Employee's responsibilities:

- Work in accordance with the safety regulations pertaining to job environment
- Work in such a way as not to endanger themselves or fellow workers.

#### **CONTENTS**

APPRENTICE IDENTIFICATION	2
CONTENTS	3
EMPLOYER INFORMATION	4
WORKPLACE HOURS	6
DATE (TO-FROM)	7
EMPLOYER	
HOURS	
TOTAL HOURS	
RECORD OF COMPETENCIES	
LEVEL 1	
LEVEL 2	
MISSING COMPETENCIES?	
TECHNICAL TRAINING	
COMPLETION REQUIREMENTS	
CERTIFICATIONS	

#### **EMPLOYER INFORMATION**

#### **Originating Employer**

Start Date:	End Date:
Employer:	
Contact Person:	
Address:	Phone:
	Email:
	Fax:
Supervisor/Journeyperson 1:	*TWID #:
	Phone:
	Email:
Supervisor/Journeyperson 2:	TWID #:
	Phone:
	Email:

\*TWID # - Trade Worker Identification Number

If you have more than one employer during your apprenticeship, record the information for subsequent employers on the following page(s).

If your job ends or you change employers...

Before leaving your place of employment:

- Please have your sponsor update your Work Based Training hours on their SkilledTradesBC Portal account.
- Update Record of Competencies with your supervisor.
- Confirm with your employer that your workplace hours have been reported to SkilledTradesBC, and if possible get a copy of all Work-Based Training Hours reports submitted.
- Notify SkilledTradesBC of the change in your employment by submitting an Online Registration Request with your new employer on the SkilledTradesBC Portal.

When re-employed...

You must be registered with your new employer before submitting any work-based training hours to SkilledTradesBC.

Subsequent Employers
Start Date:

Start Date:	End Date:	
Employer:		
Contact Person:		
Address:	Phone:	
	Email:	
	Fax:	
Supervisor/Journeyperson 1:	TWID #:	
	Phone:	
	Email:	
Supervisor/Journeyperson 2:	TWID #:	
	Phone:	
	Email:	
Subsequent Employers		
Start Date:	End Date:	
Employer:		
Contact Person:		
Address:	Phone:	
	Email:	

Fax:

TWID #:

Phone:

Email:

TWID #:

Phone:

Email:

**Released:** 05/2020 **Revised:** 02/2025

Supervisor/Journeyperson 1:

Supervisor/Journeyperson 2:

#### **WORKPLACE HOURS**

#### **Instructions**

Make an entry in this section each time your hours are reported to the SkilledTradesBC.

- 1. Get a copy of the *Workplace Hours Report* from your employer.
- 2. Fill in the dates of the <u>reporting period</u> and the <u>hours</u> reported.
- 3. Enter your employer name, address and phone number.
- 4. Keep your Record Book in a safe place.

#### **Workplace Hours**

Workplace hours must be submitted to SkilledTradesBC by your employer on a regular basis. Your hours should be reported at least every six months; however, every three months is preferred.

At the beginning of your apprenticeship discuss the frequency of reporting with your employer.

Keeping Workplace hours up-to-date in your Record Book gives you the tools to better manage your apprenticeship. It provides you with the opportunity to:

- Follow up with your employer each reporting period to ensure your hours are reported on a regular basis.
- Discuss your progress with your direct supervisor/journeyperson on a regular basis.

DATE (TO-FROM)	EMPLOYER	HOURS
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TOTAL HOURS		

#### RECORD OF COMPETENCIES

#### **Instructions**

The Record of Competencies is filled out and signed-off by the journeyperson supervising your work.

- 1. Know what skills are expected at each level of the program.
- 2. Ask the journeyperson to sign off on the competency when you have acquired the skills and are able to perform the task without supervision.
- 3. If the journeyperson agrees that you have the required skills, he/she will:
  - Record the date that the competency was achieved
  - Sign off on the competency
  - Enter his/her Trades Worker Identification Number (TWID #)

#### What is a Record of Competencies?

The Record of Competencies lists all competencies you should be knowledgeable in prior to receiving your certification. Keeping this section up to date will allow you to track your progress towards certification and demonstrate proficiency in the skills within the scope of your trade. Completion of the entire program should result in you becoming a skilled and knowledgeable journeyperson.

- Refer to this section periodically to ensure you are getting the work experience you need.
- Use the competencies as a guide to ensure work tasks are assigned so that you acquire the skills and knowledge required to be successful in the trade.

Review the Record of Competencies on a regular basis with your direct supervisor/journeyperson to ensure they have been completed.

#### **Program Outline**

The Program Outline provides detailed information on the scope of knowledge and skills expected at each level of the program, further defining the competencies listed in the Record Book. The Program Outline is a great resource for developing a training plan.

Download from: <a href="https://skilledtradesbc.ca/ironworker-reinforcing">https://skilledtradesbc.ca/ironworker-reinforcing</a>

#### Apprenticeship Toolkit

For general information on apprenticeship and tips for navigating the apprenticeship system in BC visit SkilledTradesBC's website to learn about the <u>apprenticeship basics</u>.

#### LEVEL 1

#### **IMPORTANT!**

Download the Program Outline!

https://skilledtradesbc.ca/ironworker-reinforcing

Read the competency tables

Some competencies are taught in many levels

For detailed information about that competency, go to the Program Outline

#### **THEORY**

LINE	E A: USE SAFE WORK PRACTICES
	Identify and describe workplace hazards  Describe non-emergency injury reporting procedures  Describe how worksite safety policies are established  Locate the parts of the occupational health and safety regulations applicable to the ironworker workplace  Attain confined space awareness qualification  Recognize a confined space  Identify various classes of fire  Attain first aid certification  E B: USE TOOLS AND EQUIPMENT
	Describe and select measurement and layout tools  Describe how to operate and maintain a cut off saw  Describe ladders and elevated platforms  Describe connecting and anchoring tools/equipment and their uses in concrete
	Describe types of drawings used in ironwork  Identify views on a shop drawing  Describe methods of communication

	Describe considerations when handling, ordering and coordinating materials  Describe the proper procedures for handling materials
LINE	D: USE RIGGING, HOISTING AND LIFTING EQUIPMENT
	Describe slings and hitches  Describe fibre and wire rope  Describe hoisting and rigging equipment  Describe rigging hardware components appropriate for the task  Identify auxiliary hoisting equipment  Describe different types of jacks  Describe uses for jacks  Describe how to move a load using jacks and rollers
LINE	E E: APPLY CRANE WORK PROCEDURES
LINE	Describe and identify different types of cranes  Identify the effects of differing crane radiuses  Describe safe crane set-up and operation  F: APPLY REINFORCING TECHNIQUES
	Describe the principles of concrete  Describe where the forces on concrete are manifested in structures  Describe the properties on reinforcing steel  Describe the principles of reinforced concrete  Describe and identify reinforced steel mill-rolled markings
LINE	G: APPLY PRE-STRESSING/POST-TENSIONING TECHNIQUES
	Describe pre-stressed systems for manufacturing pre-cast members  Describe placement of strands and accessories  Describe un-bonded post-tensioning systems  Describe bonded post-tensioning systems

#### **PRACTICAL**

#### LINE A: USE SAFE WORK PRACTICES Manage workplace hazards Demonstrate emergency procedures Interpret the parts of the Occupational Health and Safety Regulations applicable to the ironworker workplace Apply a confined space procedure Select appropriate fall protection equipment Use fall protection equipment and systems Select and use personal protective equipment Apply preventative fire safety precautions Select appropriate fire extinguishers for the class of fire and environmental condition Use equipment to prevent various classes of fire LINE B: USE TOOLS AND EQUIPMENT Select hand tools appropriate to the task Use hand tools Inspect and maintain tools Use measurement and layout tools Select power tools Use power tools Inspect and maintain power tools Use a cut off saw to cut mesh Cut using oxy-acetylene tools Select and use ladders and platforms Select and use access equipment Use a hammer drill to drill vertically or horizontally into concrete

LINE	E C: ORGANIZE WORK
	Apply mathematical principles to solve problems Interpret drawings for reinforcing, bar placing and post-tension application Communicate with others Handle materials according to job requirements
LINE	E D: USE RIGGING, HOISTING AND LIFTING EQUIPMENT
	Tie knots, bends and hitches Use slings, hitches and bends for rigging Use rope for hand lines and load control Select and use hoisting and rigging equipment Use hoisting and rigging equipment Use jacks
TIBIT	LE ADDITI COLLIE MODIZ DE CEDITORO
LINE	E E: APPLY CRANE WORK PROCEDURES
LINE	Use communication procedures for moving and hoisting Set-up a crane
	Use communication procedures for moving and hoisting
	Use communication procedures for moving and hoisting Set-up a crane
LINE	Use communication procedures for moving and hoisting Set-up a crane EF: APPLY REINFORCING TECHNIQUES
LINE	Use communication procedures for moving and hoisting Set-up a crane  E F: APPLY REINFORCING TECHNIQUES  Install reinforcing material

NOTES FROM LEVEL 1
Note:

#### LEVEL 2

#### **IMPORTANT!**

Download the Program Outline!

https://skilledtradesbc.ca/ironworker-reinforcing

Read the competency tables

Some competencies are taught in many levels

For detailed information about that competency, go to the Program Outline

#### **THEORY**

LINE	E B: USE TOOLS AND EQUIPMENT
	Identify welding joints
LINE	E C: ORGANIZE WORK
	Identify schedules from a structural engineering drawing Identify reinforcing requirements based on reinforcing steel drawings Identify the types of post-tensioning as shown on drawings Identify the post-tensioning anchorage needs as shown on drawings Identify the types of post-tensioning concrete construction from structural engineering and post-tension drawings Identify and compile the post tensioning requirements from a structural drawing
LINE	E D: USE RIGGING, HOISTING AND LIFTING EQUIPMENT
00000	Identify marine hoisting equipment Identify heavy lift rigging Describe barge loading and unloading Identify safety practices for heavy rigging and marine rigging
	Identify and analyse heavy lift rigging  Analyse a dual lift rigging plan

LINE	EE: APPLY CRANE WORK PROCEDURES
	Identify hazards associated with assembling/disassembling cranes  Describe types of crane parts  Describe crane assembly/disassembly  Describe moving cranes on site
LINE	F: APPLY REINFORCING TECHNIQUES
	Describe reinforcing codes and standards
LINE	G: APPLY PRE-STRESSING/POST-TENSIONING TECHNIQUES
	Describe reasons for de-stressing Analyse a drawing and determine specifications Describe preparation of tendons for stressing Describe stressing tendons Describe cutting and capping tendons Describe grouting

#### **PRACTICAL**

LINE	E B: USE TOOLS AND EQUIPMENT
	Use levelling equipment Use oxyacetylene equipment Use welding equipment Recognize welding defects
LINE	E C: ORGANIZE WORK
	Apply mathematical principles to solve problems related to the daily tasks of an ironworker Interpret shop drawings
LINE	E D: USE RIGGING, HOISTING AND LIFTING EQUIPMENT
	Use ropes, slings and hitches (fibre and wire) for rigging Select and use hoisting and rigging equipment Calculate a reeve system Select equipment based on transfer of load Discuss procedures for heavy rigging and marine rigging
LINE	E E: APPLY CRANE WORK PROCEDURES
	Determine crane position Prepare base for crane set-up Set-up a crane and install jib
LINE	E F: APPLY REINFORCING TECHNIQUES
	Select the appropriate material for a given task based on the principles and standards of reinforced concrete  Detail and install reinforcing material using a blueprint or placing sheet

# Interpret specification standards Supervisor Signature

LINE G: APPLY PRE-STRESSING/POST-TENSIONING TECHNIQUES

NOTES FROM LEVEL 2
Note:

#### **MISSING COMPETENCIES?**

To develop the best journeyperson possible employers should attempt to provide training in all competencies for the trade. This is not always possible.

If your employer is unable to provide training in any competency required for your trade, note that competency below. Competencies listed here will remain unsigned until your employer can provide training in that area or until you find an alternate way to gain the experience needed.

Competency:	Date:
Reason:	
Altomoto plone	
Alternate plan:	
Competency:	Date:
Reason:	
Alternate plan:	

#### **TECHNICAL TRAINING**

#### **Instructions**

Keep a record of each level of technical training completed.

#### Level 1

Date Completed:	Training Provider:
Mark:	Instructor:

#### Level 2

Date Completed:	Training Provider:	
Mark:	Instructor:	

#### **COMPLETION REQUIREMENTS**

#### **Instructions**

Keep a record of each program completion requirement achieved.

IRONWORKER (REINFORCING)
☐ Level 1 - Technical Training ☐ Level 2 - Technical Training
☐ 3,180 Work-Based Training Hours
☐ SkilledTradesBC Interprovincial Red Seal examination☐ Recommendation for Certification signed by sponsor

Note: After all other completions requirements have been met, SkilledTradesBC sends a Recommendation for Certification form to the sponsor requesting signoff.

#### **CERTIFICATIONS**

#### **Instructions**

Keep a record of the credentials and endorsements you have earned, including the certification number and date of issue.

CREDENTIAL EARNED	NUMBER	DATE OF ISSUE

If you have any questions, please contact SkilledTradesBC Customer Service at <u>customerservice@skilledtradesbc.ca</u>
778-328-8700 or toll free (within BC) at 1-800-660-6011