



# Professional Skills Record

## Oil Burner Mechanic

### NOC 7331

## ***ACKNOWLEDGEMENTS***

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This project is the result of the collaboration of the following dedicated adult educational consultants in Prince Edward Island:

Ruth Rogerson  
Karen Chandler  
Gaelyne MacAulay  
Karen Dempsey.

Our sincere thanks to the *Trade Essentials Advisory Committee* for their suggestions, input and ongoing support.

We also recognize the valuable contribution made by the apprentices and challengers who volunteered to participate in this research project. It is our sincere hope that they have gained as much from their participation as we have. We also hope that their contributions will assist many more tradespeople to reach their goals.

We are grateful to the assessors, tutors and classroom instructors who patiently piloted our materials and who gave back invaluable insights and advice.

All Trade Essentials materials have been validated by teams of tradespeople who hold Certificates of Qualification, Red Seal Endorsement. We gratefully acknowledge the crucial contribution made by the following team members:

Glenn Ellsworth (Automotive Service Technician)  
Cecil Banks (Automotive Service Technician)  
Scott Bagnall (Automotive Service Technician)  
Darcy MacKenzie (Automotive Service Technician)  
Elmer MacDougall (Cabinet Maker)  
Graham Hicken (Cabinet Maker)  
Gerard Lund (Carpenter)  
Leo MacDonald (Carpenter)  
Ryan Rogerson (Carpenter)  
Darren Richards (Construction Electrician)  
Mark Seaman (Construction Electrician)  
Ken Zakem (Cook)  
Rod Lukeman (Cook)

Barry Strongman (Industrial Electrician)  
Gregg Francis (Industrial Electrician)  
Jake Shaw (Machinist)  
Sue LeFort (Machinist)  
John Hebert (Metal Fabricator / Welder)  
Joe Johnson (Metal Fabricator)  
Jim Arsenault (Metal Fabricator)  
Kent Mitchell (Oil Burner Mechanic / Steamfitter-Pipefitter)  
Rod Arsenault (Oil Burner Mechanic / Refrigeration & Air Conditioning Mechanic)  
Kent Mitchell (Plumber)  
Scott Carter (Plumber)  
Charlie Redmond (Refrigeration & Air Conditioning Mechanic)  
Scott Lacey (Steamfitter-Pipefitter)  
Vincent Jenkins (Welder)

Thanks to the Apprenticeship Section of the PEI Department of Innovation and Advanced Learning and to the government of Canada's Pan-Canadian Innovation Initiative for financial assistance and for continuing support to trades and apprentices in Canada.

# Journeyperson's Handbook

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This handbook is designed to help skilled trades Journeypersons manage the skills and learning of their Apprentices who are using a Professional Skills Record.

## **1 Why Do I Need this Handbook?**

Eighty percent of all learning in a trade happens on the job. This means the apprentice has the responsibility to learn and you, as their journeyperson, have the responsibility to mentor and teach.

Signing off for the learning an apprentice has completed under your supervision is a huge responsibility. With all the skills needed in a trade, it is important that both you and the apprentice have a tool to help you record and sign off on that learning.

## **2 But We Have Logbooks**

When a tradesperson registers as an apprentice in most provinces or territories in Canada, they are given a Logbook.

A Logbook:

- is issued by the apprenticeship authority within a jurisdiction
- is created from the National Occupational Analysis (NOA) in a trade
- is a list of all the general skill areas (**Blocks and Tasks**) in a trade
- records an apprentice's progress in the general skill areas of a trade
- is signed off by a journeyperson to guarantee that an apprentice is performing these tasks to Industry Standard.

A Logbook lists the Blocks and Tasks from the NOA **but** the Interprovincial Red Seal exam and trades training courses in colleges and trade schools use **all** the information in the NOA. This includes the Blocks, Tasks, **Sub-tasks and the Knowledge and Abilities** listed in the NOA.

Each apprentice needs a tool that lists **all** the skills and learning they need in their trade career. Then, if they have one employer or several employers over their entire term of apprenticeship, both the apprentice and the journeyperson know what learning has been completed:

- the journeyperson knows what skills they are signing off to verify what has been taught; and
- the apprentice knows what they need to learn to be successful in their Red Seal exam.

### **3 What is a National Occupational Analysis (NOA)?**

The Canadian Council of Directors of Apprenticeship, which is made up of managers and directors of apprenticeship from every province and territory in Canada, guides a Human Resources and Skills Development Canada (HRSDC) sponsored program to develop NOAs.

Under this partnership, joint planning committees made up of tradespeople who have a Certificate of Qualification, Red Seal endorsement from each province and territory in Canada, come together in Ottawa every four to five years to review and revise the NOA in all of the 45 skilled trades.

Each NOA is accepted as the national standard in that trade. The NOA is then used to:

- identify and group tasks performed by skilled workers in each trade in every province and territory in Canada
- group these tasks by Blocks, Tasks, Sub-tasks, Knowledge, Skills and Abilities (also called "**competencies**") required in a trade
- give information on the breakdown of questions from all sections of the NOA in the Interprovincial Red Seal exam
- create all the questions for the Red Seal exam
- create curriculum for trade school programs and Block Release/Period/Level\* programs in a trade.

\* *The in-school portion of apprenticeship has several names across Canada. In some provinces and territories it is called Block Release, in others it is called Period Training or Level.*

## **4 If there is an NOA, why do we need a Professional Skills Record (PSR)?**

The NOA is designed to be used for creating curriculum and for developing test questions for the Red Seal exam.

The PSR is designed to be used by an apprentice and a journeyperson in the workplace. The PSR provides a fair and objective assessment tool to record the apprentice's learning and skills.

The PSR has been developed **with** apprentices during a three-year research project on PEI called Trade Essentials. Recommendations made by the apprentices who tested the tool have been built into the document.

The PSR was then validated by teams of tradespeople who have a Certification of Qualification, Red Seal endorsement in each trade who came together and discussed what an apprentice is expected to learn from their journeyperson in the workplace.

The apprentice has the main responsibility for completing the PSR. It is designed as a self-assessment tool so the apprentice can keep track of his/her skills and learning and make plans to fill any technical skills training gaps.

The PSR takes information from the NOA and:

- lays it out in a chart
- lists the percentage and number of questions for the Red Seal exam from each task on every page
- takes the skills from the NOA and describes them in terms of what a tradesperson does on the job, for example:
  - In the **NOA**, the skill says – "knowledge of blueprints and drawings"
  - In the **PSR**, the skill says – "read and interpret blueprints and drawings"
- has a rating chart so the apprentice can judge his/her level of learning and have it all recorded for you to review
- provides you, the journeyperson, with a tool to discuss details of an apprentice's skill areas that are great and areas that may need to improve
- helps the apprentice make a plan so he/she can improve skills
- helps you know what skills you still have to teach the apprentice.



## 5 Am I expected to teach all the skills in a PSR?

No. A PSR contains **all** the skills and learning a tradesperson has to learn over all their years as an apprentice. You, as their journeyperson, can help make this tool useful by completing the sign-off on the learning and skill you know they have. Some of the ways you can assess the skills your apprentice has are:

- **OBSERVATION** – you watch them use their knowledge, skills and abilities or competencies to perform a task or sub-task

For example, you ask them to select a tool for a specific job, then watch them use that tool to do a task.

- **INTERVIEW** – you have a discussion with your apprentice to find out if they can demonstrate an understanding of what they are doing

For example, you ask them to tell you about any safety precautions that have to be followed before they start a certain task.

- **DOCUMENTATION** – an apprentice may have a document that provides proof of skills they already have. You can use the PSR to sign-off on tasks the document covers. The document or certificate could be from:

- another employer,
- a trade school or college,
- an industry training course,
- another province or territory,
- or even from another country.

For example, you need all your employees to be trained in WHMIS. A new apprentice you just hired shows you a WHMIS certificate he/she have from a job they were working on a couple of months ago in northern Canada.

Apprentices will also tell you, through their self-assessments, the best way they think they can prove the skills they have. This can help guide you, as their mentor, to choose a way to assess your apprentice that works best for both of you.

## 6 Are there any tips on how to be a good mentor to my apprentice?

Mentoring has always been the foundation of apprenticeship. In trades, a mentor is a person who has a great deal of learning and skills from experience in a trade who helps a less experienced person by guiding, teaching and sharing their skills and learning.

Along with having learning and experience in their trade, the most successful mentors are:

- **Patient** - and understand the apprentice needs time to learn and practise their skills to become as good as their mentor.
- **Organized** - and set a schedule to meet regularly with their apprentice to track their learning and make plans for new learning.
- **Positive** - and supportive in helping an apprentice tackle new learning and encourage them to keep working on skills they find difficult to learn.
- **Respectful** - so that other employees in the workplace accept the apprentice and are willing to help and encourage the new apprentice.

As a mentor, you are a role model for your apprentice. To create a successful relationship between you and your apprentice you can:

- **Lead by example.** If you set safety and quality assurance as firsts on your list each and every day, so will your apprentice.
- **Build trust.** If you want your apprentice to trust and respect you, you can show trust in them by assigning them some responsibility as soon as you see an opportunity.
- **Communicate.** Communication is a two-way street. Be willing to listen as you give directions and be available to your apprentice when they need you. Always treat every question seriously. If your apprentice has the confidence to ask, it is important to give a respectful answer.
- **Be reliable.** Your apprentices need to know they can depend on you when they run into a problem. Create supportive relationships with other employees so if you are away from the workplace, your apprentice feels confident in approaching another employee for help.

## 6.1 Tips

- **Give clear instructions.** When assigning a task and giving direction, give step-by-step instructions, then ask your apprentice to repeat the instructions. This gives them the opportunity to ask questions on things that might not be clear to them.

### Checklist for giving instructions:

- ✓ **explain the task**
  - ✓ **show them how it is done**
  - ✓ **answer their questions**
  - ✓ **oversee the work**
  - ✓ **give them time to practise**
  - ✓ **give feedback on how they are doing**
  - ✓ **take time to show them how to do the task better**
- **Give feedback.** Giving feedback often helps your apprentice to have a clear understanding of what you want them to do and how you want them to perform. The PSR helps you to give feedback because each knowledge, skills and ability (competency) statement is clear.

There are three types of feedback that work best in the workplace:

**Positive** feedback means you want your apprentice to continue what they are doing. People are motivated by hearing they are doing a good job. They usually do more and try harder.

**Constructive** feedback means you want your apprentice to change how or what they are doing. Offering support and guidance to your apprentice to make the changes you need usually brings the best results.

**Direct** feedback focuses on what you have seen, not on secondhand information. Focus on how the apprentice is doing and what you have planned for them to do.

- **Give your apprentice experience in many skills.** Sometimes apprentices end up performing the same set of skills over and over again because they are really good at them. They are required to learn the scope of the entire trade during their apprenticeship. If you have the capability, it would be helpful to take advantage of the opportunity to cover a wide range of skills by moving your apprentice from one set of skills to another on a regular basis.
- **Track and Document learning.** Every employer cannot offer an apprentice training in every skill in a trade because each workplace is unique. Some workplaces are specialists in one area of a trade.

As a journeyperson, you have the responsibility to sign off on the skills your apprentice learns under your guidance in your workplace. A PSR can help you identify those skills.

Setting a regular review date once every month or two, and keeping that time just for you and your apprentice, can increase their scope in their trade and increase their knowledge which will be an asset in the workplace.

This meeting time gives you the best opportunity to:

- monitor your apprentice's progress,
- make a plan with him/her to learn more skills, and
- find out if there are any problem areas where he/she may need help.

Regular meeting dates also help your apprentice to be prepared and able to track his/her learning. This can be done by using a Professional Skills Record (PSR).

## **7 So how do I use a Professional Skills Record (PSR) with my apprentice?**

The PSR is laid out in a chart. Each skill your apprentice has to learn has an action word to tell them how they are supposed to perform a skill. It gives you a level you can use to judge whether they are performing that skill properly. **Industry standard** is the term used to describe when your apprentice can complete a task to the level and quality of performance required by industry without assistance or supervision.

When you see the words "demonstrate an understanding of," you may find it easier to ask them questions about the skill to make sure they know what they are doing.

## PROFESSIONAL SKILLS RECORD (PSR) JOURNEYPerson'S HANDBOOK

Your apprentice has the responsibility to complete the "Knowledge, Skills and Abilities – Competencies" section.

When you are sure your apprentice has proven to you they have completed the learning they say they have, you verify it by initialing the sub-task.

<b>Trade Name</b>  IP Exam – 125 Questions  BLOCK A 5% - 6 questions on the IP  <u>Learning Category</u> OCCUPATIONAL SKILLS
<b>Task 1 – A</b> 3 questions on the IP exam  <u>Learning Outcome</u> <b>Uses and maintains tools and equipment</b>
Journeyperson Sign-off Task 1  <div style="display: flex; justify-content: space-between; align-items: center;"> <span>Complete</span> <input style="width: 30px; height: 20px; border: 1px solid black;" type="checkbox"/> </div> <div style="display: flex; justify-content: space-between; align-items: center; margin-top: 10px;"> <span>Incomplete</span> <input style="width: 30px; height: 20px; border: 1px solid black;" type="checkbox"/> </div>



Knowledge, Skills and Abilities - Competencies

<b>SUB-TASK 1.01</b>  <u>Learning Objective</u> <b>Uses hand tools</b>  <b>JP Sign-off</b> ____	<b>1.01.01</b> Identify boring tools  <div style="display: flex; justify-content: space-between;"> <span><b>Rating</b> ____</span> <span><b>Complete</b></span> </div> <div style="display: flex; justify-content: space-between;"> <span><b>Proof</b> ____</span> <input style="width: 30px; height: 20px; border: 1px solid black;" type="checkbox"/> </div> <div style="display: flex; justify-content: space-between;"> <span><b>Use</b> ____</span> <input style="width: 30px; height: 20px; border: 1px solid black;" type="checkbox"/> </div>	<b>1.01.02</b> Identify hand cutting tools  <div style="display: flex; justify-content: space-between;"> <span><b>Rating</b> ____</span> <span><b>Complete</b></span> </div> <div style="display: flex; justify-content: space-between;"> <span><b>Proof</b> ____</span> <input style="width: 30px; height: 20px; border: 1px solid black;" type="checkbox"/> </div> <div style="display: flex; justify-content: space-between;"> <span><b>Use</b> ____</span> <input style="width: 30px; height: 20px; border: 1px solid black;" type="checkbox"/> </div>
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When your apprentice proves to you that he/she has finished enough sub-tasks to have a good grasp of the task, you verify that learning by initialing "complete".



If your apprentice has not completed enough sub-tasks or you do not agree with the ratings they have given themselves, initial "incomplete".

[illegible]

## Comments

You might

- 

The PSR can help you give a fair assessment of your apprentice's ability to perform each technical skill task. If you are assigned an apprentice from another employer, province, territory or country, you can use the PSR to review his/her skills so you do not waste your valuable time teaching them skills they already know and can do.



# PROFESSIONAL SKILLS RECORD

A tool for recording and recognizing skills and learning of trade apprentices

## Oil Burner Mechanic

NOC 7331

A project of:  
The Province of PEI  
and  
Human Resources and Skills Development Canada



Human Resources and  
Skills Development Canada

Ressources humaines et  
Développement des compétences Canada





The **Professional Skills Record (PSR)** is a technical skills assessment tool designed to be used in the workplace by an apprentice and a journeyperson. The PSR has taken the content from the National Occupational Analysis (NOA) and arranged it so apprentices can use it to measure their progress in their trade from the time they sign up for apprenticeship through to Red Seal certification.

This PSR has been through a validation process with a team of trade professionals with Certificate of Qualification, Red Seal endorsement, who reached agreement on the wording of each and every knowledge and skill (*competency*) to make it measurable.

The PSR was originally designed as a tool to help apprentices move through a Recognition for Skills and Learning (RSL) process so they can receive recognition for skills they have, no matter where they learned them. Through completion of a PSR, they can avoid relearning what they already know and can do by entering the apprenticeship Block/Period/Level in-school process at a higher level. For example, move directly into Block/Period/Level three rather than relearning Block/Period/Level One and Two.

Feedback from testing and validation of the PSR has opened many new possibilities for using this tool. The PSR can be used:

- as a tool for valid assessment in a Recognition for Skills and Learning (RSL) process
- as a tool that new Canadians and people planning to emigrate can use, to assess their skills against Canadian standards, receive recognition for skills they already have and, if necessary, make a plan to fill any technical skill gaps they may still have
- in the secondary-school system and in post-secondary trades training so students can know the full scope of the trade they are entering
- as a tool to guide journeypersons while they are mentoring apprentices so they are aware of all the skills apprentices need to learn to be fully competent in their professional trade designation.

#### INFORMATION SITES:

PROJECT SITE  
[www.tradeessentials.ca](http://www.tradeessentials.ca)

CANADIAN RED SEAL SITE  
[www.red-seal.ca](http://www.red-seal.ca)

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## Oil Burner Mechanic Trade Information

Name: \_\_\_\_\_ Full Address: \_\_\_\_\_  
Email Address: \_\_\_\_\_  
Phone: Home \_\_\_\_\_ Work \_\_\_\_\_ Cell \_\_\_\_\_

## Technical Skills Journey person Assessor/s

Name: \_\_\_\_\_ Business Name: \_\_\_\_\_  
Phone: Home: \_\_\_\_\_ Work: \_\_\_\_\_ Cell: \_\_\_\_\_ Business Address: \_\_\_\_\_  
Email Address: \_\_\_\_\_

Name: \_\_\_\_\_ Business Name: \_\_\_\_\_  
Phone: Home: \_\_\_\_\_ Work: \_\_\_\_\_ Cell: \_\_\_\_\_ Business Address: \_\_\_\_\_  
Email Address: \_\_\_\_\_

Name: \_\_\_\_\_ Business Name: \_\_\_\_\_  
Phone: Home: \_\_\_\_\_ Work: \_\_\_\_\_ Cell: \_\_\_\_\_ Business Address: \_\_\_\_\_  
Email Address: \_\_\_\_\_

Apprenticeship Program Start Date: \_\_\_\_\_ Completion Date: \_\_\_\_\_ Red Seal Certification Date: \_\_\_\_\_

Apprenticeship Training Officer:

Signature: \_\_\_\_\_

Provincial/Territorial Apprenticeship Manager:

Signature: \_\_\_\_\_

Province/Territory: \_\_\_\_\_

## Professional Skills Record (PSR) Development

### Professional Skills Record (PSR)

The Professional Skills Record (PSR) is designed as a tool of assessment. Learning and skills are validated through the PSR when they are signed off by a licensed journeyperson in the trade in which the apprenticeship is being served.

All skills and learning assessed in this PSR are measured against the standards listed in the National Occupational Analysis (NOA). The NOA is recognized by the Canadian Council of Directors of Apprenticeship (CCDA) as the national standard for the occupation of Oil Burner Mechanic.

### PSR Oil Burner Mechanic Document Validation

**To conduct a reliable assessment through a formal recognition process, skills and learning statements must be measurable. To assess skills and learning using a PSR in the trades, the Knowledge, Skills and Abilities listed in the NOA have been made into measurable competency statements by adding an “action word.” This action word describes the skill and learning level which must be reached by an apprentice on the job in order to meet industry standards. Each PSR has been validated by a trades team, all of whom hold a Certificate of Qualification with Red Seal endorsement, and who reached consensus on each action word used in every knowledge, skill and ability statement.**

## Where Technical Trade Learning Happens

This Professional Skills Record (PSR) records and recognizes directly related trade technical skills and knowledge learned through:

- **Formal Learning** – structured learning that occurs in formal education and training institutions (for example, high school, trades school, apprenticeship programs, registered union and industry training programs)
- **Non-formal Learning** – learning that happens through planned, structured training or education outside the formal education system (for example, workshops, seminars, community school)
- **Informal/Experiential Learning** – learning that results from experience, occurs outside a structured environment, and is controlled by the learner (for example, experience on-the-job, volunteer work, self-study and life experiences). Informal or experiential learning must be current and essential to the trade.

*Definitions: Adopted and/or interpreted from Work-related Informal Learning: Research and Practice in the Canadian Context, CAPLA 2008*

## Academic Trade Requirement

**Trade Designation: Oil Burner Mechanic National Occupational Classification (NOC) 7331**

One of the following prerequisites must be met before writing the Interprovincial (Red Seal) Exam: an academic Grade 12 certificate or a General Education Diploma (GED) or successful assessment in the following Essential Skills.

Essential Skills common to all trades are listed in Appendix B of this document. Specific Essential Skills for the Oil Burner Mechanic trade are listed on the Red Seal website: [www.red-seal.ca](http://www.red-seal.ca). (Once on that site, you will find the Essential Skills Profiles under “National Occupational Analysis.”)

A document can prove valuable learning that is recognized by industry and learning institutions.  
**Record and save every document earned in industry, trade school or union.**

Document Record							
Document Name	Issued By	Place Issued	Date Issued	Evidence of recognition for:			Recognition Awarded
				Block/s <u>Learning Category/s</u> Completed	Task/s <u>Learning Outcome/s</u> Completed	Academic Requirement	

## Prior Learning Assessment and Recognition (PLAR). . . Recognition for Skills and Learning (RSL)

PLAR is a formal recognition process in which a variety of tools are used to help people identify, demonstrate and receive recognition for skills and learning they have from the workplace, educational institutions, credentialing organizations or regulatory bodies.

The **Professional Skills Record (PSR)** is a tool designed to assist a trades apprentice to record skills and learning, and then receive recognition for the skills and learning through a PLAR trades process called:

### RECOGNITION FOR SKILLS AND LEARNING (RSL)

Traditionally, 80% of learning in a trade happens in the workplace. Through a **Recognition for Skills and Learning (RSL)** process, an apprentice can advance in a trade when they prove they have the required hours, skills and learning for that trade. Proof of skills and learning is **recorded** by the apprentice in a **PSR** and **verified** when signed-off by a journeyperson in that trade.

Through the completion of a **PSR**, an apprentice can avoid relearning what they already know and can do. Through an **RSL** process, a trade apprentice can submit a PSR for assessment to:

- advance in Block/Period/Level in-school training by not having to complete a Block/Period/Level in which proof is provided that skills and learning have already been achieved for that Block/Period/Level.
- transfer common skills from one trade to another - **Skills and learning must be transferred prior to writing the Interprovincial Red Seal exam. The same skills and learning cannot be recognized toward certification in two trades.**
- compare skills and learning in a trade from another country to Canadian standards (**as stated in the National Occupational Analysis**) and receive recognition for the skills and learning that meets Canadian standards.



The following assessment indicators (Rating, Proof, Use) have been developed to help record and then assess skills and learning in accordance with the standards of the trade outlined in the National Occupational Analysis (NOA).

Assessment Standard ONE		
Rating: Self-assessment performance rating in the workplace		
Workplace Performance	Rating	Examples of Workplace position/s
Can perform this task and series of sub-tasks: <ul style="list-style-type: none"> <li>- to meet or shorten task timelines</li> <li>- beyond the expected level and quality of performance required by industry</li> <li>- can <b>manage, lead and train others</b> to perform this task and series of sub-tasks</li> </ul>	6	<b>Journey person with a Certificate of Qualification, Red Seal endorsement</b> and/or <b>Gold Seal tradesperson</b> who is an expert in their field <ul style="list-style-type: none"> <li>- Project Manager/Foreman</li> <li>- Highly skilled and experienced Manager/Supervisor</li> <li>- Expert who comes from industry to serve as an instructor in a trades training program</li> </ul>
Can perform this task and series of sub-tasks: <ul style="list-style-type: none"> <li>- to meet or shorten task timelines</li> <li>- to the highest level and quality of performance required by industry</li> <li>- take the initiative to <b>respond to unexpected situations when they arise and supervise others</b></li> </ul>	5	<b>Highly skilled and experienced journey person with a Certificate of Qualification, Red Seal endorsement</b> to whom co-workers turn for direction and help
Can perform this task and series of sub-tasks: <ul style="list-style-type: none"> <li>- to meet task timelines</li> <li>- to the <b>highest level and quality required by industry without supervision</b></li> </ul>	4	<b>Experienced, skilled journey person with a Certificate of Qualification, Red Seal endorsement</b>
Can perform this task and series of sub-tasks: <ul style="list-style-type: none"> <li>- to the level and quality required by industry <b>without assistance or supervision</b></li> </ul>	3	<b>Newly certified journey person with a Certificate of Qualification, Red Seal endorsement</b>
Can perform this task and series of sub-tasks: <ul style="list-style-type: none"> <li>- to the required level and quality of performance <b>with direction, some assistance and supervision</b></li> </ul>	2	<b>Apprentice working under the direction of a journey person with a Certificate of Qualification, Red Seal endorsement</b>
Can perform this task and series of sub-tasks: <ul style="list-style-type: none"> <li>- to the required level and quality of performance <b>with assistance and constant supervision</b></li> </ul>	1	<b>A helper or new apprentice who must work directly under the constant supervision of a journey person with a Certificate of Qualification, Red Seal endorsement</b>

**Proof: Self-assessment options to prove skills and learning have been achieved**

### Type of Proof – Observation ... Interview ... Documentation

#### Observation

When you choose “Observation” to prove that you can perform a task, the person who verifies your work must be Red Seal Certified in the trade in which you are an apprentice.

#### Interview

When you choose “Interview” to prove that you can perform the task, the person who verifies your work must be Red Seal Certified in the trade in which you are an apprentice. In the case of a panel, at least one person on the panel must be Red Seal Certified in the trade in which you are an apprentice.

#### Documentation

When you choose “Documentation” to prove that you can perform a task, the document must be from a certified training school or from an industry training course. Course content must be part of the requirements of your trade. If the document is from another country, it must be verified as equivalent to Canadian requirements in the trade.

**NOTE: Gather all your documents and keep them with your PSR.**

## Assessment Standard THREE

**Use: Self-assessment rating to help make a plan for additional learning and skill updates needed to be successful in achieving goals in a trade**

Use of Knowledge, Skills and Abilities –	1 Daily	2 Often	3 Seldom	4 Never
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Show how often you use a skill. This will help you to know:

- ♦ what skills you do well because you do them on a regular basis
- ♦ what skills you have to update if you want to transfer to another employer or move to another province or territory
- ♦ what skills you have to get from a training school, industry program or other employer

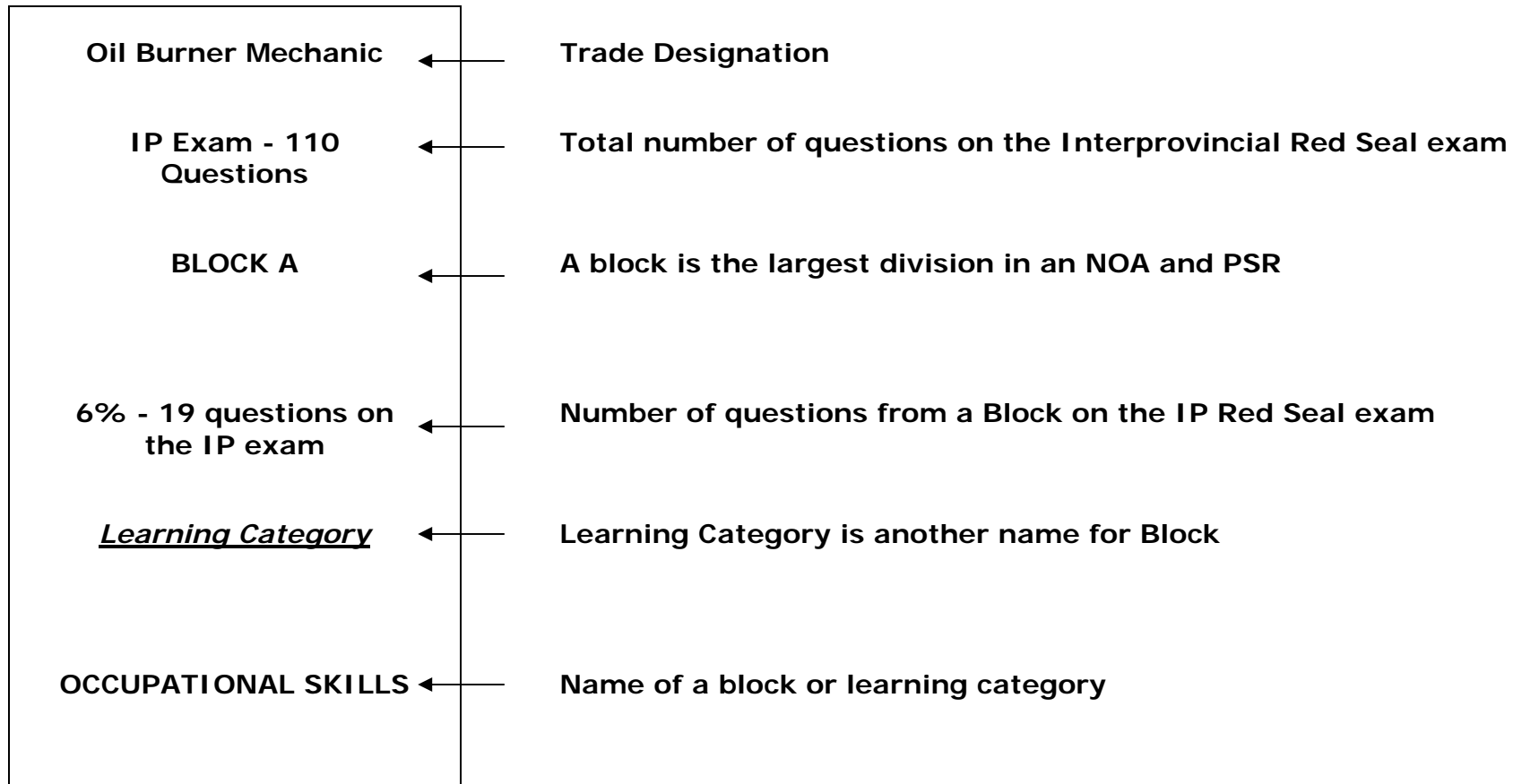
### Completing this PSR can help you:

- ♦ know the full scope of your trade by exploring all the technical skills in your trade
- ♦ highlight the skills you already have
- ♦ identify any gaps that you may have to fill so you can be successful in writing your Interprovincial Red Seal certification exam
- ♦ create a plan you can follow to fill these technical skills gaps

## Professional Skills Record (PSR) Components

Information from the National Occupational Analysis (NOA) is the foundation document for the Professional Skills Record (PSR). The PSR has been designed so that information is easily found to help a trade apprentice take control and direct his/her own individual skills and learning path.

Information in the PSR includes:



## Professional Skills Record (PSR) Components (cont'd)

**Task 1 – A**

**7 questions on the  
IP exam**

**Learning Outcome**

**Uses tools and equipment**

Task Number and Block/Category (letter number)

Number of questions on the IP Red Seal exam from the task

Learning Outcome is another name for a task

Task or learning outcome description

Journey person  
Sign-off  
Task 1

Complete ☐

Incomplete ☐

Journey person's initials verify that an apprentice can perform the task to industry standards.

Journey person's initials indicate "incomplete" when the apprentice requires more work because the task is not being performed to industry standards.

## Professional Skills Record (PSR) Set-up (cont'd)

<p><b>Task 1</b></p> <p><b>Learning Needs</b></p> <p>Sub-Tasks</p> <p><b><u>Learning Objectives</u></b></p> <p>To be completed</p> <p>Comments</p>
---

Journeyperson lists any Sub-Tasks (Learning Objectives that an apprentice must improve before they can have their Task (Learning Outcome) signed off).

← **When completed, this column becomes a learning plan for the apprentice.**

<p><b>Sub-Task</b></p> <p><b>1.02</b></p> <p><b><u>Learning Objective</u></b></p> <p>Uses power tools</p> <p><b>JP Sign-off</b> _____</p>
--

← Sub-Task Number

← Learning Objective is another name for sub-task

← Sub-task or learning objective description

← Journeyperson assesses and signs off when the apprentice can perform a sub-task or learning objective to industry standard

## How to Self-Assess Skills and Learning Using a PSR

For easier use, the self-assessment charts have been shortened into an assessment key which is located at the top of each two-page section in a PSR. The "3" rating is considered "Industry Standard."

### RATING:

- 6 - Expert perform a task beyond expected level and quality of performance, lead and/or teach others
- 5 - Highly skilled perform a task to the highest level and quality of performance, supervise others
- 4 - Meet task timelines and perform tasks to the highest level and quality required by industry, without supervision
- 3 - Complete a task to the level and quality of performance required by industry without assistance or supervision**
- 2 - Complete a task with some assistance and supervision
- 1 - Complete task with assistance and constant supervision

### TYPE OF PROOF:

O - Observation    I - Interview    D - Documentation

### USE:

1 – Daily                      2 – Often                      3 – Seldom                      4 - Never

## How to Record Skills and Learning Using a PSR

Self-assessment takes place where the learning of skills takes place in each of the Knowledge, Skills and Abilities. (Knowledge, Skills and Abilities can also be called Competencies).

### 1.02.01

Recognize all types of power tools

← Skill and Learning that must meet industry standard.

Rating       5  

← Choose and insert a number from the RATING key that best describes your level of performance in the workplace.

Proof       I  

← Choose and insert a letter from the PROOF key that indicates your best choice to provide proof that you have this knowledge, skill and ability in the trade.

Use       2  

← Choose and insert a number from the USE key that indicates how often you use the knowledge, skills and ability (competency).

Complete



← Insert a check mark in the box to indicate completion of the competency to industry standard.

Tips to making sure you get recognition for all your skills and learning:

- take your **time** when you are working on your PSR
- do not try to complete **too much** at any one time
- be **fair and honest** with yourself; remember, this is a **self-assessment** tool
- **focus** on each task (*learning outcome*) and sub-task (*learning objective*)



**Oil Burner Mechanic  
IP Exam - 110 Questions**

**BLOCK A**  
6% -19 Questions on the IP  
exam

Learning Category  
**OCCUPATIONAL SKILLS**

**Task 1 - A**  
7 questions on the IP exam

Learning Outcome  
**Uses tools and equipment**

Journey person  
Sign-off  
Task 1

Complete ☐

Incomplete ☐

**Task 1**  
**Learning Needs**

**Sub-Tasks**  
Learning Objectives  
to be completed  
Comments

**Rating:**

6 - Expert, perform a task beyond expected level and quality of performance, lead and/or teach others  
 5 - Highly skilled, perform a task to the highest level and quality of performance, supervise others  
 4 - Meet task timelines and perform tasks to the highest level and quality required by industry, without supervision  
 3 - Complete a task to the level and quality of performance required by industry without assistance or supervision  
 2 - Complete a task with some assistance and supervision  
 1 - Complete task with assistance and constant supervision

**Type of Proof:** O - Observation I - Interview D - Documentation

**Use:** 1 - Daily 2 - Often 3 - Seldom 4 - Never

Knowledge, Skills and Abilities - Competencies

<b>SUB-TASK 1.01</b>  <u>Learning Objective</u> <b>Uses hand tools</b>  <b>JP Sign-off</b> _____	<b>1.01.01</b> Identify types of hand tools  Rating ____ Complete Proof ____ <input type="checkbox"/> Use ____	<b>1.01.02</b> Apply hand tool operating procedures  Rating ____ Complete Proof ____ <input type="checkbox"/> Use ____	<b>1.01.03</b> Recognize limitations of use of hand tools  Rating ____ Complete Proof ____ <input type="checkbox"/> Use ____	<b>1.01.04</b> Organize hand tools  Rating ____ Complete Proof ____ <input type="checkbox"/> Use ____	<b>1.01.05</b> Select hand tools  Rating ____ Complete Proof ____ <input type="checkbox"/> Use ____
	<b>1.01.06</b> Maintain hand tools  Rating ____ Complete Proof ____ <input type="checkbox"/> Use ____	<b>1.01.07</b> Store hand tools  Rating ____ Complete Proof ____ <input type="checkbox"/> Use ____	<b>1.01.08</b> Recognize worn, damaged or defective hand tools  Rating ____ Complete Proof ____ <input type="checkbox"/> Use ____	<b>1.01.09</b> Apply hand-eye coordination  Rating ____ Complete Proof ____ <input type="checkbox"/> Use ____	
<b>SUB-TASK 1.02</b>  <u>Learning Objective</u> <b>Uses power tools</b>  <b>JP Sign-off</b> _____	<b>1.02.01</b> Recognize all types of power tools  Rating ____ Complete Proof ____ <input type="checkbox"/> Use ____	<b>1.02.02</b> Apply power tool operating procedures  Rating ____ Complete Proof ____ <input type="checkbox"/> Use ____	<b>1.02.03</b> Recognize limitations of use of power tools  Rating ____ Complete Proof ____ <input type="checkbox"/> Use ____	<b>1.02.04</b> Organize power tools  Rating ____ Complete Proof ____ <input type="checkbox"/> Use ____	<b>1.02.05</b> Select power tools  Rating ____ Complete Proof ____ <input type="checkbox"/> Use ____
	<b>1.02.06</b> Maintain power tools  Rating ____ Complete Proof ____ <input type="checkbox"/> Use ____	<b>1.02.07</b> Store power tools  Rating ____ Complete Proof ____ <input type="checkbox"/> Use ____	<b>1.02.08</b> Recognize worn, damaged or defective power tools  Rating ____ Complete Proof ____ <input type="checkbox"/> Use ____	<b>1.02.09</b> Apply hand-eye coordination  Rating ____ Complete Proof ____ <input type="checkbox"/> Use ____	

**Task 1 - A  
(cont'd)**

Learning Outcome  
**Uses tools and equipment**

**Task 1  
Learning Needs**

**Sub-Tasks**  
Learning Objectives  
to be completed  
Comments

Knowledge, Skills and Abilities - Competencies

<b>SUB-TASK 1.03</b>  <u>Learning Objective</u> <b>Uses powder- actuated tools</b>  <b>JP Sign-off</b> ____	<b>1.03.01</b> Recognize types of powder-actuated tools  Rating ____ <b>Complete</b> Proof ____ <input type="checkbox"/> Use ____	<b>1.03.02</b> Identify types of shots  Rating ____ <b>Complete</b> Proof ____ <input type="checkbox"/> Use ____	<b>1.03.03</b> Meet certification requirements  Rating ____ <b>Complete</b> Proof ____ <input type="checkbox"/> Use ____	<b>1.03.04</b> Apply powder- actuated tool operating procedures  Rating ____ <b>Complete</b> Proof ____ <input type="checkbox"/> Use ____	<b>1.03.05</b> Recognize limitations of use of powder-actuated tools  Rating ____ <b>Complete</b> Proof ____ <input type="checkbox"/> Use ____
	<b>1.03.06</b> Select powder-actuated tools  Rating ____ <b>Complete</b> Proof ____ <input type="checkbox"/> Use ____	<b>1.03.07</b> Maintain powder- actuated tools  Rating ____ <b>Complete</b> Proof ____ <input type="checkbox"/> Use ____	<b>1.03.08</b> Store powder-actuated tools  Rating ____ <b>Complete</b> Proof ____ <input type="checkbox"/> Use ____	<b>1.03.09</b> Recognize worn, damaged or defective powder-actuated tools  Rating ____ <b>Complete</b> Proof ____ <input type="checkbox"/> Use ____	<b>1.03.10</b> Apply hand-eye coordination  Rating ____ <b>Complete</b> Proof ____ <input type="checkbox"/> Use ____
<b>SUB-TASK 1.04</b>  <u>Learning Objective</u> <b>Uses measuring and testing equipment</b>  <b>JP Sign-off</b> ____	<b>1.04.01</b> Identify types of measuring and testing equipment  Rating ____ <b>Complete</b> Proof ____ <input type="checkbox"/> Use ____	<b>1.04.02</b> Apply measuring and testing equipment operating procedures  Rating ____ <b>Complete</b> Proof ____ <input type="checkbox"/> Use ____	<b>1.04.03</b> Perform basic calculations  Rating ____ <b>Complete</b> Proof ____ <input type="checkbox"/> Use ____	<b>1.04.04</b> Convert between imperial and metric measurements  Rating ____ <b>Complete</b> Proof ____ <input type="checkbox"/> Use ____	<b>1.04.05</b> Interpret measurements  Rating ____ <b>Complete</b> Proof ____ <input type="checkbox"/> Use ____
	<b>1.04.06</b> Organize measuring and testing equipment  Rating ____ <b>Complete</b> Proof ____ <input type="checkbox"/> Use ____	<b>1.04.07</b> Select measuring and testing equipment  Rating ____ <b>Complete</b> Proof ____ <input type="checkbox"/> Use ____	<b>1.04.08</b> Verify calibration of measuring and testing equipment  Rating ____ <b>Complete</b> Proof ____ <input type="checkbox"/> Use ____	<b>1.04.09</b> Maintain measuring and testing equipment  Rating ____ <b>Complete</b> Proof ____ <input type="checkbox"/> Use ____	<b>1.04.10</b> Store measuring and testing equipment  Rating ____ <b>Complete</b> Proof ____ <input type="checkbox"/> Use ____

**Task 1 - A**  
**(cont'd)**

Learning Outcome  
**Uses tools and equipment**

**Task 1**  
**Learning Needs**

**Sub-Tasks**  
Learning Objectives  
to be completed  
Comments

**Rating:**

6 - Expert, perform a task beyond expected level and quality of performance, lead and/or teach others

5 - Highly skilled, perform a task to the highest level and quality of performance, supervise others

4 - Meet task timelines and perform tasks to the highest level and quality required by industry, without supervision

**3 - Complete a task to the level and quality of performance required by industry without assistance or supervision**

2 - Complete a task with some assistance and supervision

1 - Complete task with assistance and constant supervision

**Type of Proof:** O - Observation I - Interview D - Documentation

**Use:** 1 - Daily 2 - Often 3 - Seldom 4 - Never

Knowledge, Skills and Abilities - Competencies

<b>SUB-TASK</b> <b>1.05</b>  <u>Learning Objective</u> <b>Uses measuring and testing equipment</b>  JP Sign-off _____	<b>1.05.01</b> Identify types of hoisting, lifting and rigging equipment  Rating ____ Complete Proof ____ <input type="checkbox"/> Use ____	<b>1.05.02</b> Apply operating procedures  Rating ____ Complete Proof ____ <input type="checkbox"/> Use ____	<b>1.05.03</b> Evaluate the applications of hoisting, lifting and rigging equipment  Rating ____ Complete Proof ____ <input type="checkbox"/> Use ____	<b>1.05.04</b> Estimate limitations of hoisting, lifting and rigging equipment  Rating ____ Complete Proof ____ <input type="checkbox"/> Use ____	<b>1.05.05</b> Recognize safe lifting locations or points  Rating ____ Complete Proof ____ <input type="checkbox"/> Use ____
	<b>1.05.06</b> Maintain hoisting, lifting and rigging equipment  Rating ____ Complete Proof ____ <input type="checkbox"/> Use ____	<b>1.05.07</b> Recognize worn, damaged or defective hoisting, lifting and rigging equipment  Rating ____ Complete Proof ____ <input type="checkbox"/> Use ____	<b>1.05.08</b> Store hoisting, lifting and rigging equipment  Rating ____ Complete Proof ____ <input type="checkbox"/> Use ____		
<b>SUB-TASK</b> <b>1.06</b>  <u>Learning Objective</u> <b>Uses ladders and platforms</b>  JP Sign-off _____	<b>1.06.01</b> Classify all types of ladders such as step ladders and extension ladders  Rating ____ Complete Proof ____ <input type="checkbox"/> Use ____	<b>1.06.02</b> Select types of platforms such as scaffolds, hydraulic lifts and scissor lifts  Rating ____ Complete Proof ____ <input type="checkbox"/> Use ____	<b>1.06.03</b> Apply government regulations  Rating ____ Complete Proof ____ <input type="checkbox"/> Use ____	<b>1.06.04</b> Apply operating procedures  Rating ____ Complete Proof ____ <input type="checkbox"/> Use ____	<b>1.06.05</b> Recognize limitations of ladders and platforms  Rating ____ Complete Proof ____ <input type="checkbox"/> Use ____
	<b>1.06.06</b> Secure ladders and platforms  Rating ____ Complete Proof ____ <input type="checkbox"/> Use ____	<b>1.06.07</b> Maintain ladders and platforms  Rating ____ Complete Proof ____ <input type="checkbox"/> Use ____	<b>1.06.08</b> Recognize worn, damaged and defective ladders and platforms  Rating ____ Complete Proof ____ <input type="checkbox"/> Use ____		

**Task 1 - A  
(cont'd)**

Learning Outcome  
**Uses tools and equipment**

**Task 1  
Learning Needs**

**Sub-Tasks**  
Learning Objectives  
to be completed  
Comments

Knowledge, Skills and Abilities - Competencies

<b>SUB-TASK 1.07</b>  <u>Learning Objective</u> <b>Uses soldering, flaring and threading tools</b>  <b>JP Sign-off</b> ____	<b>1.07.01</b> Interpret and practice Workplace Hazardous Materials Information System (WHMIS)  Rating ____ <b>Complete</b> Proof ____ <input type="checkbox"/> Use ____	<b>1.07.02</b> Identify types of soldering, flaring and threading equipment  Rating ____ <b>Complete</b> Proof ____ <input type="checkbox"/> Use ____	<b>1.07.03</b> Identify alloys and fluxes  Rating ____ <b>Complete</b> Proof ____ <input type="checkbox"/> Use ____	<b>1.07.04</b> Interpret and apply Transportation of Dangerous Goods (TDG) regulations  Rating ____ <b>Complete</b> Proof ____ <input type="checkbox"/> Use ____	<b>1.07.05</b> Interpret and apply ventilation requirements  Rating ____ <b>Complete</b> Proof ____ <input type="checkbox"/> Use ____
	<b>1.07.06</b> Recognize flammable materials  Rating ____ <b>Complete</b> Proof ____ <input type="checkbox"/> Use ____	<b>1.07.07</b> Match alloy to specific component to be soldered, flared and threaded  Rating ____ <b>Complete</b> Proof ____ <input type="checkbox"/> Use ____	<b>1.07.08</b> Select soldering, flaring and threading equipment  Rating ____ <b>Complete</b> Proof ____ <input type="checkbox"/> Use ____	<b>1.07.09</b> Organize soldering, flaring and threading equipment  Rating ____ <b>Complete</b> Proof ____ <input type="checkbox"/> Use ____	<b>1.07.10</b> Maintain soldering, flaring and threading equipment  Rating ____ <b>Complete</b> Proof ____ <input type="checkbox"/> Use ____
	<b>1.07.11</b> Store soldering, flaring and threading equipment   Rating ____ <b>Complete</b> Proof ____ <input type="checkbox"/> Use ____				
<b>SUB-TASK 1.08</b>  <u>Learning Objective</u> <b>Uses personal protective equipment (PPE) and safety equipment</b>  <b>JP Sign-off</b> ____	<b>1.08.01</b> Identify types of PPE  Rating ____ <b>Complete</b> Proof ____ <input type="checkbox"/> Use ____	<b>1.08.02</b> Recognize types of safety equipment  Rating ____ <b>Complete</b> Proof ____ <input type="checkbox"/> Use ____	<b>1.08.03</b> Practice PPE and safety equipment operations  Rating ____ <b>Complete</b> Proof ____ <input type="checkbox"/> Use ____	<b>1.08.04</b> Recognize training requirements for PPE and safety equipment  Rating ____ <b>Complete</b> Proof ____ <input type="checkbox"/> Use ____	<b>1.08.05</b> Locate PPE and safety equipment  Rating ____ <b>Complete</b> Proof ____ <input type="checkbox"/> Use ____
	<b>1.08.06</b> Interpret and apply workplace safety and health regulations  Rating ____ <b>Complete</b> Proof ____ <input type="checkbox"/> Use ____	<b>1.08.07</b> Select PPE and safety equipment  Rating ____ <b>Complete</b> Proof ____ <input type="checkbox"/> Use ____	<b>1.08.08</b> Maintain PPE and safety equipment  Rating ____ <b>Complete</b> Proof ____ <input type="checkbox"/> Use ____	<b>1.08.09</b> Store PPE and safety equipment  Rating ____ <b>Complete</b> Proof ____ <input type="checkbox"/> Use ____	<b>1.08.10</b> Recognize worn, damaged and defective PPE and safety equipment  Rating ____ <b>Complete</b> Proof ____ <input type="checkbox"/> Use ____

**Task 2 - A**  
4 questions on the IP exam

Learning Outcome  
**Organizes work**

Journey person  
Sign-off  
Task 2

Complete ☐  
Incomplete ☐

**Task 2**  
**Learning Needs**

**Sub-Tasks**  
Learning Objectives  
to be completed  
Comments

**Rating:**

- 6 - Expert, perform a task beyond expected level and quality of performance, lead and/or teach others  
5 - Highly skilled, perform a task to the highest level and quality of performance, supervise others  
4 - Meet task timelines and perform tasks to the highest level and quality required by industry, without supervision  
**3 - Complete a task to the level and quality of performance required by industry without assistance or supervision**  
2 - Complete a task with some assistance and supervision  
1 - Complete task with assistance and constant supervision

**Type of Proof:**

O - Observation      I - Interview      D - Documentation

**Use:**

1 - Daily      2 - Often      3 - Seldom      4 - Never

Knowledge, Skills and Abilities - Competencies

<b>SUB-TASK 2.01</b>  <u>Learning Objective</u> <b>Communicates with others</b>  JP Sign-off ____	<b>2.01.01</b> Recognize customer expectations  Rating ____ Complete Proof ____ <input type="checkbox"/> Use ____	<b>2.01.02</b> Select and operate communication equipment and technology  Rating ____ Complete Proof ____ <input type="checkbox"/> Use ____	<b>2.01.03</b> Interact with customers  Rating ____ Complete Proof ____ <input type="checkbox"/> Use ____	<b>2.01.04</b> Communicate with other tradespeople and industry professionals  Rating ____ Complete Proof ____ <input type="checkbox"/> Use ____	<b>2.01.05</b> Communicate with other tradespeople  Rating ____ Complete Proof ____ <input type="checkbox"/> Use ____
	<b>2.01.06</b> Communicate with apprentices  Rating ____ Complete Proof ____ <input type="checkbox"/> Use ____	<b>2.01.07</b> Communicate with supervisors and management  Rating ____ Complete Proof ____ <input type="checkbox"/> Use ____	<b>2.01.08</b> Use communication equipment  Rating ____ Complete Proof ____ <input type="checkbox"/> Use ____		
<b>SUB-TASK 2.02</b>  <u>Learning Objective</u> <b>Performs lock-out and tagging procedures</b>  JP Sign-off ____	<b>2.02.01</b> Interpret and apply safety regulations  Rating ____ Complete Proof ____ <input type="checkbox"/> Use ____	<b>2.02.02</b> Interpret and follow company safety policies  Rating ____ Complete Proof ____ <input type="checkbox"/> Use ____	<b>2.02.03</b> Interpret and apply environmental guidelines and regulations  Rating ____ Complete Proof ____ <input type="checkbox"/> Use ____	<b>2.02.04</b> Recognize and correct unsafe conditions  Rating ____ Complete Proof ____ <input type="checkbox"/> Use ____	<b>2.02.05</b> Keep workplace tidy and organized  Rating ____ Complete Proof ____ <input type="checkbox"/> Use ____
<b>SUB-TASK 2.03</b>  <u>Learning Objective</u> <b>Interprets codes and documentation</b>  JP Sign-off ____	<b>2.03.01</b> Identify and apply B139 code  Rating ____ Complete Proof ____ <input type="checkbox"/> Use ____	<b>2.03.02</b> Recognize relevant sections of codes such as building, plumbing, electrical and safety codes  Rating ____ Complete Proof ____ <input type="checkbox"/> Use ____	<b>2.03.03</b> Identify types of documentation such as permits, warranties and invoices  Rating ____ Complete Proof ____ <input type="checkbox"/> Use ____	<b>2.03.04</b> Utilize trade terminology present in codes and documentation  Rating ____ Complete Proof ____ <input type="checkbox"/> Use ____	<b>2.03.05</b> Locate specific information in codes and documentation  Rating ____ Complete Proof ____ <input type="checkbox"/> Use ____

**Task 2 - A  
(cont'd)**

Learning Outcome  
**Organizes work**

**Task 2  
Learning Needs**

**Sub-Tasks**  
Learning Objectives  
to be completed  
Comments

Knowledge, Skills and Abilities - Competencies

<p><b>SUB-TASK 2.04</b></p> <p><u>Learning Objective</u> <b>Completes documentation</b></p> <p>JP Sign-off _____</p>	<p><b>2.04.01</b> Identify types of business documentation such as work orders, purchase orders, service invoices and warranties</p> <p>Rating ____ <b>Complete</b> Proof ____ <input type="checkbox"/> Use ____</p>	<p><b>2.04.02</b> Identify types of government forms such as permits, inspection reports and environmental forms</p> <p>Rating ____ <b>Complete</b> Proof ____ <input type="checkbox"/> Use ____</p>	<p><b>2.04.03</b> Prepare quote</p> <p>Rating ____ <b>Complete</b> Proof ____ <input type="checkbox"/> Use ____</p>	<p><b>2.04.04</b> Prepare material list</p> <p>Rating ____ <b>Complete</b> Proof ____ <input type="checkbox"/> Use ____</p>	<p><b>2.04.05</b> Complete final inspection report</p> <p>Rating ____ <b>Complete</b> Proof ____ <input type="checkbox"/> Use ____</p>
	<p><b>2.04.06</b> Use documentation equipment such as computers, digital cameras and video cameras</p> <p>Rating ____ <b>Complete</b> Proof ____ <input type="checkbox"/> Use ____</p>				
<p><b>SUB-TASK 2.05</b></p> <p><u>Learning Objective</u> <b>Interpret drawings</b></p> <p>JP Sign-off _____</p>	<p><b>2.05.01</b> Identify and read all types of drawings such as blueprints, shop drawings and sketches</p> <p>Rating ____ <b>Complete</b> Proof ____ <input type="checkbox"/> Use ____</p>	<p><b>2.05.02</b> Identify drawing components such as lines, symbols, legends and schedules</p> <p>Rating ____ <b>Complete</b> Proof ____ <input type="checkbox"/> Use ____</p>	<p><b>2.05.03</b> Interpret specifications</p> <p>Rating ____ <b>Complete</b> Proof ____ <input type="checkbox"/> Use ____</p>	<p><b>2.05.04</b> Use drawing instruments</p> <p>Rating ____ <b>Complete</b> Proof ____ <input type="checkbox"/> Use ____</p>	<p><b>2.05.05</b> Locate layout dimensions</p> <p>Rating ____ <b>Complete</b> Proof ____ <input type="checkbox"/> Use ____</p>
	<p><b>2.05.06</b> Reference specifications</p> <p>Rating ____ <b>Complete</b> Proof ____ <input type="checkbox"/> Use ____</p>	<p><b>2.05.07</b> Scale imperial and metric measurements</p> <p>Rating ____ <b>Complete</b> Proof ____ <input type="checkbox"/> Use ____</p>			

**Task 2 - A  
(cont'd)**

Learning Outcome  
**Organizes work**

**Rating:**

- 6 - Expert, perform a task beyond expected level and quality of performance, lead and/or teach others  
 5 - Highly skilled, perform a task to the highest level and quality of performance, supervise others  
 4 - Meet task timelines and perform tasks to the highest level and quality required by industry, without supervision  
**3 - Complete a task to the level and quality of performance required by industry without assistance or supervision**  
 2 - Complete a task with some assistance and supervision  
 1 - Complete task with assistance and constant supervision

**Type of Proof:**

O - Observation      I - Interview      D - Documentation

**Use:**

1 - Daily      2 - Often      3 - Seldom      4 - Never

Knowledge, Skills and Abilities - Competencies

<b>Task 2 Learning Needs</b>  <b>Sub-Tasks</b> <u>Learning Objectives</u> to be completed Comments	<b>SUB-TASK 2.06</b>  <u>Learning Objective</u> <b>Performs basic distribution layout</b>  JP Sign-off _____	<b>2.06.01</b> Determine building size and application  Rating ____ Complete Proof ____ <input type="checkbox"/> Use ____	<b>2.06.02</b> Identify types of appliances and components  Rating ____ Complete Proof ____ <input type="checkbox"/> Use ____	<b>2.06.03</b> Recognize forced air distribution systems  Rating ____ Complete Proof ____ <input type="checkbox"/> Use ____	<b>2.06.04</b> Recognize types of hydronic distribution systems such as radiant floor, fin tube and case iron  Rating ____ Complete Proof ____ <input type="checkbox"/> Use ____	<b>2.06.05</b> Estimate pipe and duct sizes, types and flow rates  Rating ____ Complete Proof ____ <input type="checkbox"/> Use ____	
		<b>2.06.06</b> Evaluate requirements  Rating ____ Complete Proof ____ <input type="checkbox"/> Use ____	<b>2.06.07</b> Take worksite measurements  Rating ____ Complete Proof ____ <input type="checkbox"/> Use ____	<b>2.06.08</b> Calculate heat loss and heat gain  Rating ____ Complete Proof ____ <input type="checkbox"/> Use ____	<b>2.06.09</b> Determine location of piping and ducting  Rating ____ Complete Proof ____ <input type="checkbox"/> Use ____		
		<b>SUB-TASK 2.07</b>  <u>Learning Objective</u> <b>Organizes material and components</b>  JP Sign-off _____	<b>2.07.01</b> Identify types of material  Rating ____ Complete Proof ____ <input type="checkbox"/> Use ____	<b>2.07.02</b> Identify types of components  Rating ____ Complete Proof ____ <input type="checkbox"/> Use ____	<b>2.07.03</b> Select material and components  Rating ____ Complete Proof ____ <input type="checkbox"/> Use ____	<b>2.07.04</b> Prepare material and components  Rating ____ Complete Proof ____ <input type="checkbox"/> Use ____	<b>2.07.05</b> Order material and components  Rating ____ Complete Proof ____ <input type="checkbox"/> Use ____
		<b>2.07.06</b> Take worksite measurements  Rating ____ Complete Proof ____ <input type="checkbox"/> Use ____	<b>2.07.07</b> Clean pipes and fittings  Rating ____ Complete Proof ____ <input type="checkbox"/> Use ____				

# Oil Burner Mechanic

## BLOCK B

17% - 19 Questions on the IP exam

Learning Category  
FUEL SUPPLY AND STORAGE SYSTEMS

# Knowledge, Skills and Abilities - Competencies

## SUB-TASK 3.01

Learning Objective  
Selects fuel storage tanks

JP Sign-off \_\_\_\_\_

**3.01.01**  
Identify tank composition such as fibreglass, plastic and stainless steel

Rating \_\_\_\_ Complete  
Proof \_\_\_\_ ☐  
Use \_\_\_\_

**3.01.02**  
Recognize tank design

Rating \_\_\_\_ Complete  
Proof \_\_\_\_ ☐  
Use \_\_\_\_

**3.01.03**  
Identify building size and geographic location

Rating \_\_\_\_ Complete  
Proof \_\_\_\_ ☐  
Use \_\_\_\_

**3.01.04**  
Determine accessibility of tank location

Rating \_\_\_\_ Complete  
Proof \_\_\_\_ ☐  
Use \_\_\_\_

**3.01.05**  
Determine tank for specific location

Rating \_\_\_\_ Complete  
Proof \_\_\_\_ ☐  
Use \_\_\_\_

**3.01.06**  
Select stand

Rating \_\_\_\_ Complete  
Proof \_\_\_\_ ☐  
Use \_\_\_\_

## SUB-TASK 3.02

Learning Objective  
Determines fuel storage tank location

JP Sign-off \_\_\_\_\_

**3.02.01**  
Determine location of utilities such as water source and electrical supply

Rating \_\_\_\_ Complete  
Proof \_\_\_\_ ☐  
Use \_\_\_\_

**3.02.02**  
Apply local regulations

Rating \_\_\_\_ Complete  
Proof \_\_\_\_ ☐  
Use \_\_\_\_

**3.02.03**  
Determine building orientation and property lines

Rating \_\_\_\_ Complete  
Proof \_\_\_\_ ☐  
Use \_\_\_\_

**3.02.04**  
Identify location of building openings such as air supply, windows and doors

Rating \_\_\_\_ Complete  
Proof \_\_\_\_ ☐  
Use \_\_\_\_

**3.02.05**  
Select tank capacity and design

Rating \_\_\_\_ Complete  
Proof \_\_\_\_ ☐  
Use \_\_\_\_

**3.02.06**  
Consider customer preferences

Rating \_\_\_\_ Complete  
Proof \_\_\_\_ ☐  
Use \_\_\_\_

**3.02.07**  
Take worksite measurements

Rating \_\_\_\_ Complete  
Proof \_\_\_\_ ☐  
Use \_\_\_\_

Journey person  
Sign-off  
Task 3

Complete ☐

Incomplete ☐

Task 3  
Learning Needs

Sub-Tasks  
Learning Objectives  
to be completed  
Comments



**Task 3 - A  
(cont'd)**

Learning Outcome  
**Installs fuel storage tanks**

**Rating:**

- 6 - Expert, perform a task beyond expected level and quality of performance, lead and/or teach others  
 5 - Highly skilled, perform a task to the highest level and quality of performance, supervise others  
 4 - Meet task timelines and perform tasks to the highest level and quality required by industry, without supervision  
**3 - Complete a task to the level and quality of performance required by industry without assistance or supervision**  
 2 - Complete a task with some assistance and supervision  
 1 - Complete task with assistance and constant supervision

**Type of Proof:**

O - Observation      I - Interview      D - Documentation

**Use:**

1 - Daily      2 - Often      3 - Seldom      4 - Never

Knowledge, Skills and Abilities - Competencies

<b>SUB-TASK 3.03</b>  <u>Learning Objective</u> <b>Prepares location for fuel storage tanks</b>  JP Sign-off _____	<b>3.03.01</b> Calculate tank weight at total capacity  Rating ____ Complete Proof ____ <input type="checkbox"/> Use ____	<b>3.03.02</b> Determine location of heating appliance  Rating ____ Complete Proof ____ <input type="checkbox"/> Use ____	<b>3.03.03</b> Select types of tank base material such as poured concrete or reinforced pads  Rating ____ Complete Proof ____ <input type="checkbox"/> Use ____	<b>3.03.04</b> Prepare base such as removing soil and compacting base  Rating ____ Complete Proof ____ <input type="checkbox"/> Use ____	<b>3.03.05</b> Calculate maximum weight load  Rating ____ Complete Proof ____ <input type="checkbox"/> Use ____
	<b>3.03.06</b> Level tank base  Rating ____ Complete Proof ____ <input type="checkbox"/> Use ____	<b>3.03.07</b> Pour concrete pad  Rating ____ Complete Proof ____ <input type="checkbox"/> Use ____	<b>3.03.08</b> Select stand  Rating ____ Complete Proof ____ <input type="checkbox"/> Use ____	<b>3.03.09</b> Assess for possibility of soil erosion  Rating ____ Complete Proof ____ <input type="checkbox"/> Use ____	
<b>SUB-TASK 3.04</b>  <u>Learning Objective</u> <b>Positions fuel storage tanks</b>  JP Sign-off _____	<b>3.04.01</b> Determine tank incline required for tank design such as end and bottom outlet  Rating ____ Complete Proof ____ <input type="checkbox"/> Use ____	<b>3.04.02</b> Assess environmental conditions  Rating ____ Complete Proof ____ <input type="checkbox"/> Use ____	<b>3.04.03</b> Secure tank legs  Rating ____ Complete Proof ____ <input type="checkbox"/> Use ____	<b>3.04.04</b> Secure tank to base with fasteners  Rating ____ Complete Proof ____ <input type="checkbox"/> Use ____	

**Task 3 - A  
(cont'd)**

Learning Outcome  
**Installs fuel storage tanks**

**Task 3  
Learning Needs**

**Sub-Tasks**  
Learning Objectives  
to be completed  
Comments

Knowledge, Skills and Abilities - Competencies

<p><b>SUB-TASK 3.05</b></p> <p><u>Learning Objective</u> <b>Installs fuel storage tank components</b></p> <p>JP Sign-off _____</p>	<p><b>3.05.01</b> Identify types and locations of components such as gauges, tank valves and vent alarms</p> <p>Rating ____ Complete Proof ____ <input type="checkbox"/> Use ____</p>	<p><b>3.05.02</b> Determine protection for components</p> <p>Rating ____ Complete Proof ____ <input type="checkbox"/> Use ____</p>	<p><b>3.05.03</b> Seal components using approved sealants</p> <p>Rating ____ Complete Proof ____ <input type="checkbox"/> Use ____</p>	<p><b>3.05.04</b> Tighten components</p> <p>Rating ____ Complete Proof ____ <input type="checkbox"/> Use ____</p>	<p><b>3.05.05</b> Retrofit components</p> <p>Rating ____ Complete Proof ____ <input type="checkbox"/> Use ____</p>
	<p><b>3.05.06</b> Test and inspect for fuel leaks</p> <p>Rating ____ Complete Proof ____ <input type="checkbox"/> Use ____</p>				
<p><b>SUB-TASK 3.06</b></p> <p><u>Learning Objective</u> <b>Installs fill and vent pipes</b></p> <p>JP Sign-off _____</p>	<p><b>3.06.01</b> Recognize sizes and types of fill and vent pipes</p> <p>Rating ____ Complete Proof ____ <input type="checkbox"/> Use ____</p>	<p><b>3.06.02</b> Identify pipe fittings such as caps, elbows and unions</p> <p>Rating ____ Complete Proof ____ <input type="checkbox"/> Use ____</p>	<p><b>3.06.03</b> Use fasteners and supports</p> <p>Rating ____ Complete Proof ____ <input type="checkbox"/> Use ____</p>	<p><b>3.06.04</b> Cut and seal holes in building envelope</p> <p>Rating ____ Complete Proof ____ <input type="checkbox"/> Use ____</p>	<p><b>3.06.05</b> Prepare pipe by threading and applying sealant compound</p> <p>Rating ____ Complete Proof ____ <input type="checkbox"/> Use ____</p>
	<p><b>3.06.06</b> Seal components using approved sealants</p> <p>Rating ____ Complete Proof ____ <input type="checkbox"/> Use ____</p>	<p><b>3.06.07</b> Torque pipe and fittings</p> <p>Rating ____ Complete Proof ____ <input type="checkbox"/> Use ____</p>	<p><b>3.06.08</b> Test and inspect for fuel leaks</p> <p>Rating ____ Complete Proof ____ <input type="checkbox"/> Use ____</p>		

**Task 4 - A**  
**19 questions on the IP**  
**exam**

Learning Outcome  
**Installs fuel supply system**

- Rating:**
- 6 - Expert, perform a task beyond expected level and quality of performance, lead and/or teach others
  - 5 - Highly skilled, perform a task to the highest level and quality of performance, supervise others
  - 4 - Meet task timelines and perform tasks to the highest level and quality required by industry, without supervision
  - 3 - Complete a task to the level and quality of performance required by industry without assistance or supervision**
  - 2 - Complete a task with some assistance and supervision
  - 1 - Complete task with assistance and constant supervision

**Type of Proof:**      O - Observation                      I - Interview                      D - Documentation

**Use:**                      1 - Daily                      2 - Often                      3 - Seldom                      4 - Never

**Knowledge, Skills and Abilities - Competencies**

<b>SUB-TASK 4.01</b>  <u>Learning Objective</u> <b>Selects fuel supply components</b>  <b>JP Sign-off</b> _____	<b>4.01.01</b> Identify components such as oil filters, valves, pumps and oil lines  Rating ____ <b>Complete</b> Proof ____ <input type="checkbox"/> Use ____	<b>4.01.02</b> Determine and select types of valves such as oil-safety, in-line, anti-siphon and check  Rating ____ <b>Complete</b> Proof ____ <input type="checkbox"/> Use ____	<b>4.01.03</b> Apply manufacturers' specifications  Rating ____ <b>Complete</b> Proof ____ <input type="checkbox"/> Use ____	<b>4.01.04</b> Determine size of fuel lines and oil filters  Rating ____ <b>Complete</b> Proof ____ <input type="checkbox"/> Use ____	<b>4.01.05</b> Determine when to use booster pump systems  Rating ____ <b>Complete</b> Proof ____ <input type="checkbox"/> Use ____
	<b>4.01.06</b> Determine when to use two-line systems  Rating ____ <b>Complete</b> Proof ____ <input type="checkbox"/> Use ____	<b>4.01.07</b> Determine when to use specialized components  Rating ____ <b>Complete</b> Proof ____ <input type="checkbox"/> Use ____			
<b>SUB-TASK 4.02</b>  <u>Learning Objective</u> <b>Installs fuel supply components</b>  <b>JP Sign-off</b> _____	<b>4.02.01</b> Identify sealants  Rating ____ <b>Complete</b> Proof ____ <input type="checkbox"/> Use ____	<b>4.02.02</b> Determine location of components such as valves, booster pumps and de-aerators  Rating ____ <b>Complete</b> Proof ____ <input type="checkbox"/> Use ____	<b>4.02.03</b> Determine travel path of fuel line  Rating ____ <b>Complete</b> Proof ____ <input type="checkbox"/> Use ____	<b>4.02.04</b> Fasten and support pipe  Rating ____ <b>Complete</b> Proof ____ <input type="checkbox"/> Use ____	<b>4.02.05</b> Seal components using approved sealants  Rating ____ <b>Complete</b> Proof ____ <input type="checkbox"/> Use ____
	<b>4.02.06</b> Test and inspect for fuel leaks  Rating ____ <b>Complete</b> Proof ____ <input type="checkbox"/> Use ____				

Journeyperson  
 Sign-off  
 Task 4

Complete ☐

Incomplete ☐

**Task 4**  
**Learning Needs**

**Sub-Tasks**  
Learning Objectives  
 to be completed  
 Comments

# Oil-Burner Mechanic

**BLOCK C**  
24% - 25 Questions on the IP exam

Learning Category  
**OIL-FIRED HEATING SYSTEMS**

## 5 - C

4 questions on the IP exam

Learning Outcome  
Installs and retrofits oil-fired and wood/oil appliances and components

Journeyman  
Sign-off  
Task 5

Complete ☐

Incomplete ☐

**Task 5**  
**Learning Needs**

**Sub-Tasks**  
Learning Objectives  
to be completed  
Comments

## Knowledge, Skills and Abilities - Competencies

<b>SUB-TASK 5.01</b>  <u>Learning Objective</u> <b>Selects appliance</b>  <b>JP Sign-off</b> _____	<b>5.01.01</b> Apply code requirements  Rating ____ Complete Proof ____ <input type="checkbox"/> Use ____	<b>5.01.02</b> Determine system requirements  Rating ____ Complete Proof ____ <input type="checkbox"/> Use ____	<b>5.01.03</b> Apply local regulations  Rating ____ Complete Proof ____ <input type="checkbox"/> Use ____	<b>5.01.04</b> Determine types of appliances such as front and rear breech, and multi-position  Rating ____ Complete Proof ____ <input type="checkbox"/> Use ____	<b>5.01.05</b> Apply manufacturers' specifications  Rating ____ Complete Proof ____ <input type="checkbox"/> Use ____
	<b>5.01.06</b> Assess customer needs  Rating ____ Complete Proof ____ <input type="checkbox"/> Use ____	<b>5.01.07</b> Evaluate desired appliance location  Rating ____ Complete Proof ____ <input type="checkbox"/> Use ____	<b>5.01.08</b> Select types of hydronic heating appliances  Rating ____ Complete Proof ____ <input type="checkbox"/> Use ____	<b>5.01.09</b> Consider location of other appliances such as clothes dryer, heat recovery ventilator and water heater  Rating ____ Complete Proof ____ <input type="checkbox"/> Use ____	
<b>SUB-TASK 5.02</b>  <u>Learning Objective</u> <b>Positions appliance</b>  <b>JP Sign-off</b> _____	<b>5.02.01</b> Apply code requirements  Rating ____ Complete Proof ____ <input type="checkbox"/> Use ____	<b>5.02.02</b> Apply local regulations  Rating ____ Complete Proof ____ <input type="checkbox"/> Use ____	<b>5.02.03</b> Determine types of appliances such as front and rear breech, and multi-position  Rating ____ Complete Proof ____ <input type="checkbox"/> Use ____	<b>5.02.04</b> Apply manufacturers' specifications  Rating ____ Complete Proof ____ <input type="checkbox"/> Use ____	<b>5.02.05</b> Determine desired appliance location  Rating ____ Complete Proof ____ <input type="checkbox"/> Use ____
	<b>5.02.06</b> Recognize types of hydronic heating appliances  Rating ____ Complete Proof ____ <input type="checkbox"/> Use ____	<b>5.02.07</b> Evaluate location of other appliances such as clothes dryer, heat recovery ventilator and water heater  Rating ____ Complete Proof ____ <input type="checkbox"/> Use ____	<b>5.02.08</b> Select types of fasteners  Rating ____ Complete Proof ____ <input type="checkbox"/> Use ____	<b>5.02.09</b> Level appliance  Rating ____ Complete Proof ____ <input type="checkbox"/> Use ____	<b>5.02.10</b> Mount appliance  Rating ____ Complete Proof ____ <input type="checkbox"/> Use ____
	<b>5.02.11</b> Secure appliance using fasteners  Rating ____ Complete Proof ____ <input type="checkbox"/> Use ____				

**Task 5 - C  
(cont'd)**

Learning Outcome  
Installs and retrofits oil-fired and wood/oil appliances and components

**Rating:**

- 6 - Expert, perform a task beyond expected level and quality of performance, lead and/or teach others  
5 - Highly skilled, perform a task to the highest level and quality of performance, supervise others  
4 - Meet task timelines and perform tasks to the highest level and quality required by industry, without supervision  
**3 - Complete a task to the level and quality of performance required by industry without assistance or supervision**  
2 - Complete a task with some assistance and supervision  
1 - Complete task with assistance and constant supervision

**Type of Proof:**

O - Observation      I - Interview      D - Documentation

**Use:**

1 - Daily      2 - Often      3 - Seldom      4 - Never

**Task 5  
Learning Needs**

**Sub-Tasks**  
Learning Objectives  
to be completed  
Comments

Knowledge, Skills and Abilities - Competencies

<b>SUB-TASK 5.03</b>  <u>Learning Objective</u> <b>Installs components on appliance</b>  <b>JP Sign-off</b> _____	<b>5.03.01</b> Identify appliance components such as burners, appliance jackets and controls  Rating ____ Complete Proof ____ <input type="checkbox"/> Use ____	<b>5.03.02</b> Determine sequence of assembly  Rating ____ Complete Proof ____ <input type="checkbox"/> Use ____	<b>5.03.03</b> Select location of controls  Rating ____ Complete Proof ____ <input type="checkbox"/> Use ____	<b>5.03.04</b> Apply sealing compounds  Rating ____ Complete Proof ____ <input type="checkbox"/> Use ____	<b>5.03.05</b> Attach fittings and adapters  Rating ____ Complete Proof ____ <input type="checkbox"/> Use ____
	<b>5.03.06</b> Connect water supply to the appliance  Rating ____ Complete Proof ____ <input type="checkbox"/> Use ____	<b>5.03.07</b> Assemble and mount burners  Rating ____ Complete Proof ____ <input type="checkbox"/> Use ____			
<b>SUB-TASK 5.04</b>  <u>Learning Objective</u> <b>Connects fuel supply to appliance</b>  <b>JP Sign-off</b> _____	<b>5.04.01</b> Identify types of fuel lines such as steel, flexible and coated copper  Rating ____ Complete Proof ____ <input type="checkbox"/> Use ____	<b>5.04.02</b> Select types of adapters and fittings  Rating ____ Complete Proof ____ <input type="checkbox"/> Use ____	<b>5.04.03</b> Apply codes  Rating ____ Complete Proof ____ <input type="checkbox"/> Use ____	<b>5.04.04</b> Apply sealing compounds  Rating ____ Complete Proof ____ <input type="checkbox"/> Use ____	<b>5.04.05</b> Flare fuel line  Rating ____ Complete Proof ____ <input type="checkbox"/> Use ____
	<b>5.04.06</b> Support fuel line  Rating ____ Complete Proof ____ <input type="checkbox"/> Use ____	<b>5.04.07</b> Protect fuel line  Rating ____ Complete Proof ____ <input type="checkbox"/> Use ____	<b>5.04.08</b> Determine termination point  Rating ____ Complete Proof ____ <input type="checkbox"/> Use ____		

**Task 5 - C  
(cont'd)**

Learning Outcome  
Installs and retrofits oil-fired and wood/oil appliances and components

**Task 5  
Learning Needs**

**Sub-Tasks**  
Learning Objectives  
to be completed  
Comments

Knowledge, Skills and Abilities - Competencies

<p><b>SUB-TASK 5.05</b></p> <p><u>Learning Objective</u> <b>Connects electrical supply to appliance</b></p> <p>JP Sign-off _____</p>	<p><b>5.05.01</b> Apply relevant sections of electrical codes</p> <p>Rating ____ Complete Proof ____ <input type="checkbox"/> Use ____</p>	<p><b>5.05.02</b> Select types of connectors and fasteners</p> <p>Rating ____ Complete Proof ____ <input type="checkbox"/> Use ____</p>	<p><b>5.05.03</b> Select wire for specific load requirements</p> <p>Rating ____ Complete Proof ____ <input type="checkbox"/> Use ____</p>	<p><b>5.05.04</b> Strip and fasten wire</p> <p>Rating ____ Complete Proof ____ <input type="checkbox"/> Use ____</p>	<p><b>5.05.05</b> Secure wire to building structure</p> <p>Rating ____ Complete Proof ____ <input type="checkbox"/> Use ____</p>
	<p><b>5.05.06</b> Seal electrical connectors on balanced flue and direct vent application</p> <p>Rating ____ Complete Proof ____ <input type="checkbox"/> Use ____</p>				
<p><b>SUB-TASK 5.06</b></p> <p><u>Learning Objective</u> <b>Connects vent/ exhaust piping to appliance</b></p> <p>JP Sign-off _____</p>	<p><b>5.06.01</b> Identify vent/ exhaust piping components</p> <p>Rating ____ Complete Proof ____ <input type="checkbox"/> Use ____</p>	<p><b>5.06.02</b> Select types of fasteners</p> <p>Rating ____ Complete Proof ____ <input type="checkbox"/> Use ____</p>	<p><b>5.06.03</b> Determine sequence of application of sealants</p> <p>Rating ____ Complete Proof ____ <input type="checkbox"/> Use ____</p>	<p><b>5.06.04</b> Apply codes</p> <p>Rating ____ Complete Proof ____ <input type="checkbox"/> Use ____</p>	<p><b>5.06.05</b> Cut and crimp piping</p> <p>Rating ____ Complete Proof ____ <input type="checkbox"/> Use ____</p>
	<p><b>5.06.06</b> Fasten piping to appliance</p> <p>Rating ____ Complete Proof ____ <input type="checkbox"/> Use ____</p>	<p><b>5.06.07</b> Apply sealants</p> <p>Rating ____ Complete Proof ____ <input type="checkbox"/> Use ____</p>			

**Task 5 - C  
(cont'd)**

Learning Outcome  
Installs and retrofits oil-fired and wood/oil appliances and components

**Rating:**

- 6 - Expert, perform a task beyond expected level and quality of performance, lead and/or teach others  
5 - Highly skilled, perform a task to the highest level and quality of performance, supervise others  
4 - Meet task timelines and perform tasks to the highest level and quality required by industry, without supervision  
**3 - Complete a task to the level and quality of performance required by industry without assistance or supervision**  
2 - Complete a task with some assistance and supervision  
1 - Complete task with assistance and constant supervision

**Type of Proof:**

O - Observation      I - Interview      D - Documentation

**Use:**

1 - Daily      2 - Often      3 - Seldom      4 - Never

**Task 5  
Learning Needs**

**Sub-Tasks**  
Learning Objectives  
to be completed  
Comments

Knowledge, Skills and Abilities - Competencies

<b>SUB-TASK 5.07</b>  <u>Learning Objective</u> <b>Installs dump zones for wood/oil systems</b>  <b>JP Sign-off</b> _____	<b>5.07.01</b> Determine application of dump zones  Rating ____ Complete Proof ____ <input type="checkbox"/> Use ____	<b>5.07.02</b> Determine appropriate location of dump zones  Rating ____ Complete Proof ____ <input type="checkbox"/> Use ____	<b>5.07.03</b> Assemble dump zone components  Rating ____ Complete Proof ____ <input type="checkbox"/> Use ____	<b>5.07.04</b> Solder connections on hydronic systems  Rating ____ Complete Proof ____ <input type="checkbox"/> Use ____	<b>5.07.05</b> Fabricate emergency access panel on forced air heating system  Rating ____ Complete Proof ____ <input type="checkbox"/> Use ____
	<b>5.07.06</b> Connect wiring to dump zones  Rating ____ Complete Proof ____ <input type="checkbox"/> Use ____				
<b>SUB-TASK 5.08</b>  <u>Learning Objective</u> <b>Connects drain to appliance</b>  <b>JP Sign-off</b> _____	<b>5.08.01</b> Apply relevant sections of plumbing codes  Rating ____ Complete Proof ____ <input type="checkbox"/> Use ____	<b>5.08.02</b> Evaluate liquids to be drained  Rating ____ Complete Proof ____ <input type="checkbox"/> Use ____	<b>5.08.03</b> Determine termination point of drain  Rating ____ Complete Proof ____ <input type="checkbox"/> Use ____	<b>5.08.04</b> Select drain pipe materials  Rating ____ Complete Proof ____ <input type="checkbox"/> Use ____	<b>5.08.05</b> Fasten drain pipe to appliance  Rating ____ Complete Proof ____ <input type="checkbox"/> Use ____
	<b>5.08.06</b> Protect drain pipe  Rating ____ Complete Proof ____ <input type="checkbox"/> Use ____	<b>5.08.07</b> Apply sealant  Rating ____ Complete Proof ____ <input type="checkbox"/> Use ____			

**Task 6 - C**  
4 questions on the IP exam

Learning Outcome  
Installs forced air heating systems

Journey person  
Sign-off  
Task 6

Complete ☐

Incomplete ☐

**Task 6**  
**Learning Needs**

**Sub-Tasks**  
Learning Objectives  
to be completed  
Comments

Knowledge, Skills and Abilities - Competencies

<b>SUB-TASK 6.01</b>  <u>Learning Objective</u> <b>Assembles ductwork</b>  <b>JP Sign-off</b> _____	<b>6.01.01</b> Identify and select ductwork material  Rating ____ Complete Proof ____ <input type="checkbox"/> Use ____	<b>6.01.02</b> Identify components installed during assembly such as zone dampers and fire dampers  Rating ____ Complete Proof ____ <input type="checkbox"/> Use ____	<b>6.01.03</b> Determine sequence of assembly  Rating ____ Complete Proof ____ <input type="checkbox"/> Use ____	<b>6.01.04</b> Select hangers and supports  Rating ____ Complete Proof ____ <input type="checkbox"/> Use ____	<b>6.01.05</b> Join ducting  Rating ____ Complete Proof ____ <input type="checkbox"/> Use ____
	<b>6.01.06</b> Modify ductwork by using methods such as cutting, forming and flanging  Rating ____ Complete Proof ____ <input type="checkbox"/> Use ____	<b>6.01.07</b> Size supply and return ducts  Rating ____ Complete Proof ____ <input type="checkbox"/> Use ____			
<b>SUB-TASK 6.02</b>  <u>Learning Objective</u> <b>Installs ductwork</b>  <b>JP Sign-off</b> _____	<b>6.02.01</b> Apply codes  Rating ____ Complete Proof ____ <input type="checkbox"/> Use ____	<b>6.02.02</b> Apply all types of sealants such as duct sealer, foil tape and vinyl duct tape  Rating ____ Complete Proof ____ <input type="checkbox"/> Use ____	<b>6.02.03</b> Connect plenums to appliance  Rating ____ Complete Proof ____ <input type="checkbox"/> Use ____	<b>6.02.04</b> Connect starting collars and takeoffs  Rating ____ Complete Proof ____ <input type="checkbox"/> Use ____	<b>6.02.05</b> Install hangers  Rating ____ Complete Proof ____ <input type="checkbox"/> Use ____
	<b>6.02.06</b> Seal joints  Rating ____ Complete Proof ____ <input type="checkbox"/> Use ____	<b>6.02.07</b> Connect trunk lines and branch lines  Rating ____ Complete Proof ____ <input type="checkbox"/> Use ____	<b>6.02.08</b> Install dampers such as manual and motorized  Rating ____ Complete Proof ____ <input type="checkbox"/> Use ____	<b>6.02.09</b> Install finish components such as registers and return air grilles  Rating ____ Complete Proof ____ <input type="checkbox"/> Use ____	



**Task 7 - C**  
4 questions on the IP exam

Learning Outcome  
Installs hydronic heating systems

Journey person  
Sign-off  
Task 7

Complete ☐  
Incomplete ☐

**Task 7**  
**Learning Needs**

**Sub-Tasks**  
Learning Objectives  
to be completed  
Comments

**Rating:**

- 6 - Expert, perform a task beyond expected level and quality of performance, lead and/or teach others  
5 - Highly skilled, perform a task to the highest level and quality of performance, supervise others  
4 - Meet task timelines and perform tasks to the highest level and quality required by industry, without supervision  
**3 - Complete a task to the level and quality of performance required by industry without assistance or supervision**  
2 - Complete a task with some assistance and supervision  
1 - Complete task with assistance and constant supervision

**Type of Proof:**

O - Observation      I - Interview      D - Documentation

**Use:**

1 - Daily      2 - Often      3 - Seldom      4 - Never

Knowledge, Skills and Abilities - Competencies

<b>SUB-TASK 7.01</b>  <u>Learning Objective</u> <b>Assembles boilers</b>  <b>JP Sign-off</b> _____	<b>7.01.01</b> Recognize all types of boilers such as horizontal and vertical tube, cast iron and sectional  Rating ____ Complete Proof ____ <input type="checkbox"/> Use ____	<b>7.01.02</b> Identify applications of boilers such as residential and commercial  Rating ____ Complete Proof ____ <input type="checkbox"/> Use ____	<b>7.01.03</b> Determine sequence of assembly  Rating ____ Complete Proof ____ <input type="checkbox"/> Use ____	<b>7.01.04</b> Identify boiler components  Rating ____ Complete Proof ____ <input type="checkbox"/> Use ____	<b>7.01.05</b> Join sections of boilers  Rating ____ Complete Proof ____ <input type="checkbox"/> Use ____
	<b>7.01.06</b> Fasten jacket  Rating ____ Complete Proof ____ <input type="checkbox"/> Use ____	<b>7.01.07</b> Apply sealants  Rating ____ Complete Proof ____ <input type="checkbox"/> Use ____	<b>7.01.08</b> Install boiler components such as aquastat well, controls and boiler drain  Rating ____ Complete Proof ____ <input type="checkbox"/> Use ____		
<b>SUB-TASK 7.02</b>  <u>Learning Objective</u> <b>Installs hydronic distribution system</b>  <b>JP Sign-off</b> _____	<b>7.02.01</b> Identify types of distribution systems such as radiant floor, cast iron and fin tube convactor  Rating ____ Complete Proof ____ <input type="checkbox"/> Use ____	<b>7.02.02</b> Determine piping and tubing materials  Rating ____ Complete Proof ____ <input type="checkbox"/> Use ____	<b>7.02.03</b> Calculate piping and tubing size  Rating ____ Complete Proof ____ <input type="checkbox"/> Use ____	<b>7.02.04</b> Apply relevant plumbing codes  Rating ____ Complete Proof ____ <input type="checkbox"/> Use ____	<b>7.02.05</b> Prepare rough-in to accept distribution systems  Rating ____ Complete Proof ____ <input type="checkbox"/> Use ____
	<b>7.02.06</b> Install fasteners and supports  Rating ____ Complete Proof ____ <input type="checkbox"/> Use ____	<b>7.02.07</b> Join and fit piping and fittings using methods such as crimping, soldering, threading and using compression fittings  Rating ____ Complete Proof ____ <input type="checkbox"/> Use ____	<b>7.02.08</b> Fasten piping and tubing  Rating ____ Complete Proof ____ <input type="checkbox"/> Use ____		

**Task 7 - C  
(cont'd)**

Learning Outcome  
**Installs hydronic heating systems**

**Task 7  
Learning Needs**

**Sub-Tasks**  
Learning Objectives  
to be completed  
Comments

Knowledge, Skills and Abilities - Competencies

<p><b>SUB-TASK 7.03</b></p> <p><u>Learning Objective</u> <b>Installs indirect water heater</b></p> <p>JP Sign-off _____</p>	<p><b>7.03.01</b> Determine types of indirect water heaters such as stainless steel and glass lined heaters</p> <p>Rating ____ Complete Proof ____ <input type="checkbox"/> Use ____</p>	<p><b>7.03.02</b> Interpret and apply relevant sections of plumbing and electrical codes</p> <p>Rating ____ Complete Proof ____ <input type="checkbox"/> Use ____</p>	<p><b>7.03.03</b> Calculate water requirements of building occupants</p> <p>Rating ____ Complete Proof ____ <input type="checkbox"/> Use ____</p>	<p><b>7.03.04</b> Level heater</p> <p>Rating ____ Complete Proof ____ <input type="checkbox"/> Use ____</p>	<p><b>7.03.05</b> Wire heater</p> <p>Rating ____ Complete Proof ____ <input type="checkbox"/> Use ____</p>
	<p><b>7.03.06</b> Connect heater to appliance</p> <p>Rating ____ Complete Proof ____ <input type="checkbox"/> Use ____</p>	<p><b>7.03.07</b> Install heater components such as circulating pump, check valves and temperature controls</p> <p>Rating ____ Complete Proof ____ <input type="checkbox"/> Use ____</p>			
<p><b>SUB-TASK 7.04</b></p> <p><u>Learning Objective</u> <b>Installs oil-fired water heater</b></p> <p>JP Sign-off _____</p>	<p><b>7.04.01</b> Identify water heater components such as venting, controls, drains, vacuum relief valves, pressure reducing valves and anti-scale valves</p> <p>Rating ____ Complete Proof ____ <input type="checkbox"/> Use ____</p>	<p><b>7.04.02</b> Calculate water heater sizes</p> <p>Rating ____ Complete Proof ____ <input type="checkbox"/> Use ____</p>	<p><b>7.04.03</b> Select types of burners</p> <p>Rating ____ Complete Proof ____ <input type="checkbox"/> Use ____</p>	<p><b>7.04.04</b> Determine flooring materials</p> <p>Rating ____ Complete Proof ____ <input type="checkbox"/> Use ____</p>	<p><b>7.04.05</b> Apply manufacturers' specifications and recommendations</p> <p>Rating ____ Complete Proof ____ <input type="checkbox"/> Use ____</p>
	<p><b>7.04.06</b> Size burner</p> <p>Rating ____ Complete Proof ____ <input type="checkbox"/> Use ____</p>	<p><b>7.04.07</b> Install components such as burners</p> <p>Rating ____ Complete Proof ____ <input type="checkbox"/> Use ____</p>	<p><b>7.04.08</b> Connect appliance to fuel, electrical and water supply</p> <p>Rating ____ Complete Proof ____ <input type="checkbox"/> Use ____</p>	<p><b>7.04.09</b> Connect to distribution system</p> <p>Rating ____ Complete Proof ____ <input type="checkbox"/> Use ____</p>	<p><b>7.04.10</b> Level heater</p> <p>Rating ____ Complete Proof ____ <input type="checkbox"/> Use ____</p>

**Task 7 - C  
(cont'd)**

Learning Outcome  
**Installs hydronic heating  
systems**

**Task 7  
Learning Needs**

**Sub-Tasks**  
Learning Objectives  
to be completed  
Comments

**Rating:**

- 6 - Expert, perform a task beyond expected level and quality of performance, lead and/or teach others  
5 - Highly skilled, perform a task to the highest level and quality of performance, supervise others  
4 - Meet task timelines and perform tasks to the highest level and quality required by industry, without supervision  
**3 - Complete a task to the level and quality of performance required by industry without assistance or supervision**  
2 - Complete a task with some assistance and supervision  
1 - Complete task with assistance and constant supervision

**Type of Proof:**

O - Observation      I - Interview      D - Documentation

**Use:**

1 - Daily      2 - Often      3 - Seldom      4 - Never

Knowledge, Skills and Abilities - Competencies

SUB-TASK 7.05  <u>Learning Objective</u> <b>Installs hydronic heating system components</b>  JP Sign-off _____	7.05.01 Determine and install hydronic heating system components such as expansion tanks, air scoops and backflow preventers	7.05.02 Select types of valves	7.05.03 Identify low-water cutoffs	7.05.04 Locate and fasten components	7.05.05 Join components using methods such as crimping, expanding, soldering and threading
	Rating ____ Complete Proof ____ <input type="checkbox"/> Use ____	Rating ____ Complete Proof ____ <input type="checkbox"/> Use ____	Rating ____ Complete Proof ____ <input type="checkbox"/> Use ____	Rating ____ Complete Proof ____ <input type="checkbox"/> Use ____	Rating ____ Complete Proof ____ <input type="checkbox"/> Use ____
	<b>7.05.06</b> Seal components     Rating ____ Complete Proof ____ <input type="checkbox"/> Use ____	<b>7.05.07</b> Connect components to electrical supply     Rating ____ Complete Proof ____ <input type="checkbox"/> Use ____			

**Oil Burner Mechanic**

**BLOCK D**

**16% -18 Questions on the IP exam**

**Learning Category**  
**VENTING, COMBUSTION**  
**AIR AND MAKE-UP AIR**

**Task 8 - D**

**4 questions on the IP exam**

**Learning Outcome**  
**Installs venting systems**

Journeyperson  
 Sign-off  
 Task 8

Complete ☐

Incomplete ☐

**Task 8**  
**Learning Needs**

**Sub-Tasks**  
Learning Objectives  
 to be completed  
 Comments

Knowledge, Skills and Abilities - Competencies

<b>SUB-TASK</b> <b>8.01</b>  <u>Learning Objective</u> <b>Selects venting system</b>  <b>JP Sign-off</b> ____	<b>8.01.01</b> Identify all types of venting systems such as chimney, balanced flue and mechanical  Rating ____ Complete Proof ____ <input type="checkbox"/> Use ____	<b>8.01.02</b> Apply relevant sections of code  Rating ____ Complete Proof ____ <input type="checkbox"/> Use ____	<b>8.01.03</b> Apply manufacturers' specifications  Rating ____ Complete Proof ____ <input type="checkbox"/> Use ____	<b>8.01.04</b> Determine chimney construction  Rating ____ Complete Proof ____ <input type="checkbox"/> Use ____	<b>8.01.05</b> Measure clearances  Rating ____ Complete Proof ____ <input type="checkbox"/> Use ____
	<b>8.01.06</b> Calculate capacities  Rating ____ Complete Proof ____ <input type="checkbox"/> Use ____				
<b>SUB-TASK</b> <b>8.02</b>  <u>Learning Objective</u> <b>Prepares location for termination</b>  <b>JP Sign-off</b> ____	<b>8.02.01</b> Evaluate building construction  Rating ____ Complete Proof ____ <input type="checkbox"/> Use ____	<b>8.02.02</b> Apply relevant sections of building codes  Rating ____ Complete Proof ____ <input type="checkbox"/> Use ____	<b>8.02.03</b> Determine material characteristics  Rating ____ Complete Proof ____ <input type="checkbox"/> Use ____	<b>8.02.04</b> Apply manufacturers' specifications  Rating ____ Complete Proof ____ <input type="checkbox"/> Use ____	<b>8.02.05</b> Access outside influences such as trees, dust and snow  Rating ____ Complete Proof ____ <input type="checkbox"/> Use ____
	<b>8.02.06</b> Recognize regional conditions  Rating ____ Complete Proof ____ <input type="checkbox"/> Use ____	<b>8.02.07</b> Measure clearances  Rating ____ Complete Proof ____ <input type="checkbox"/> Use ____	<b>8.02.08</b> Perform basic carpentry  Rating ____ Complete Proof ____ <input type="checkbox"/> Use ____	<b>8.02.09</b> Visualize layout of system  Rating ____ Complete Proof ____ <input type="checkbox"/> Use ____	<b>8.02.10</b> Perform basic masonry  Rating ____ Complete Proof ____ <input type="checkbox"/> Use ____
	<b>8.02.11</b> Remove liners  Rating ____ Complete Proof ____ <input type="checkbox"/> Use ____				

**Task 8 - D  
(cont'd)**

Learning Outcome  
**Installs venting systems**

**Rating:**

- 6 - Expert, perform a task beyond expected level and quality of performance, lead and/or teach others  
 5 - Highly skilled, perform a task to the highest level and quality of performance, supervise others  
 4 - Meet task timelines and perform tasks to the highest level and quality required by industry, without supervision  
**3 - Complete a task to the level and quality of performance required by industry without assistance or supervision**  
 2 - Complete a task with some assistance and supervision  
 1 - Complete task with assistance and constant supervision

**Type of Proof:**

O - Observation      I - Interview      D - Documentation

**Use:**

1 - Daily      2 - Often      3 - Seldom      4 - Never

Knowledge, Skills and Abilities - Competencies

<b>Task 8</b> <b>Learning Needs</b>  <b>Sub-Tasks</b> <u>Learning Objectives</u> to be completed Comments	<b>SUB-TASK 8.03</b>  <u>Learning Objective</u> <b>Installs venting components</b>  JP Sign-off _____	<b>8.03.01</b> Identify types of venting components and liners  Rating ____ Complete Proof ____ <input type="checkbox"/> Use ____	<b>8.03.02</b> Apply manufacturers' specifications  Rating ____ Complete Proof ____ <input type="checkbox"/> Use ____	<b>8.03.03</b> Select types of sealants  Rating ____ Complete Proof ____ <input type="checkbox"/> Use ____	<b>8.03.04</b> Select types of fasteners and supports  Rating ____ Complete Proof ____ <input type="checkbox"/> Use ____	<b>8.03.05</b> Assemble components  Rating ____ Complete Proof ____ <input type="checkbox"/> Use ____
		<b>8.03.06</b> Apply sealants  Rating ____ Complete Proof ____ <input type="checkbox"/> Use ____	<b>8.03.07</b> Fasten and secure venting and components  Rating ____ Complete Proof ____ <input type="checkbox"/> Use ____	<b>8.03.08</b> Install liners  Rating ____ Complete Proof ____ <input type="checkbox"/> Use ____	<b>8.03.09</b> Perform basic masonry  Rating ____ Complete Proof ____ <input type="checkbox"/> Use ____	
	<b>SUB-TASK 8.04</b>  <u>Learning Objective</u> <b>Secures venting system to structure</b>  JP Sign-off _____	<b>8.04.01</b> Select types of fasteners and supports  Rating ____ Complete Proof ____ <input type="checkbox"/> Use ____	<b>8.04.02</b> Apply manufacturers' specifications  Rating ____ Complete Proof ____ <input type="checkbox"/> Use ____	<b>8.04.03</b> Apply relevant sections of codes  Rating ____ Complete Proof ____ <input type="checkbox"/> Use ____	<b>8.04.04</b> Measure support points  Rating ____ Complete Proof ____ <input type="checkbox"/> Use ____	<b>8.04.05</b> Fasten venting system to structure  Rating ____ Complete Proof ____ <input type="checkbox"/> Use ____
		<b>8.04.06</b> Apply sealants  Rating ____ Complete Proof ____ <input type="checkbox"/> Use ____	<b>8.04.07</b> Perform basic masonry  Rating ____ Complete Proof ____ <input type="checkbox"/> Use ____			

**9 - D**  
**4 questions on the IP exam**

Learning Outcome  
**Installs equipment and components for combustion air and make-up air**

Journey person  
 Sign-off  
 Task 9

Complete ☐

Incomplete ☐

**Task 9**  
**Learning Needs**

**Sub-Tasks**  
Learning Objectives  
 to be completed  
 Comments

Knowledge, Skills and Abilities - Competencies

<b>SUB-TASK 9.01</b>  <u>Learning Objective</u> <b>Selects equipment and components</b>  <b>JP Sign-off _____</b>	<b>9.01.01</b> Identify appliances such as water heater and forced air furnace  Rating ____ Complete Proof ____ <input type="checkbox"/> Use ____	<b>9.01.02</b> Select components such as fans, ducts and grilles  Rating ____ Complete Proof ____ <input type="checkbox"/> Use ____	<b>9.01.03</b> Calculate appliance capacities  Rating ____ Complete Proof ____ <input type="checkbox"/> Use ____	<b>9.01.04</b> Apply relevant sections of codes  Rating ____ Complete Proof ____ <input type="checkbox"/> Use ____	<b>9.01.05</b> Measure clearances  Rating ____ Complete Proof ____ <input type="checkbox"/> Use ____
	<b>9.01.06</b> Calculate size  Rating ____ Complete Proof ____ <input type="checkbox"/> Use ____	<b>9.01.07</b> Determine location of intakes for combustion air and make-up air  Rating ____ Complete Proof ____ <input type="checkbox"/> Use ____			
<b>SUB-TASK 9.02</b>  <u>Learning Objective</u> <b>Prepares location of equipment and components for combustion air and make up air</b>  <b>JP Sign-off _____</b>	<b>9.02.01</b> Evaluate building construction  Rating ____ Complete Proof ____ <input type="checkbox"/> Use ____	<b>9.02.02</b> Apply relevant sections of building codes  Rating ____ Complete Proof ____ <input type="checkbox"/> Use ____	<b>9.02.03</b> Apply manufacturers' specifications  Rating ____ Complete Proof ____ <input type="checkbox"/> Use ____	<b>9.02.04</b> Identify material characteristics  Rating ____ Complete Proof ____ <input type="checkbox"/> Use ____	<b>9.02.05</b> Assess outside influences such as trees, dust and snow  Rating ____ Complete Proof ____ <input type="checkbox"/> Use ____
	<b>9.02.06</b> Recognize regional conditions  Rating ____ Complete Proof ____ <input type="checkbox"/> Use ____	<b>9.02.07</b> Perform basic carpentry  Rating ____ Complete Proof ____ <input type="checkbox"/> Use ____	<b>9.02.08</b> Measure clearances  Rating ____ Complete Proof ____ <input type="checkbox"/> Use ____	<b>9.02.09</b> Visualize layout of system  Rating ____ Complete Proof ____ <input type="checkbox"/> Use ____	
<b>SUB-TASK 9.03</b>  <u>Learning Objective</u> <b>Assembles equipment and components</b>  <b>JP Sign-off _____</b>	<b>9.03.01</b> Select equipment and components  Rating ____ Complete Proof ____ <input type="checkbox"/> Use ____	<b>9.03.02</b> Apply manufacturers' specifications  Rating ____ Complete Proof ____ <input type="checkbox"/> Use ____	<b>9.03.03</b> Select types of sealants  Rating ____ Complete Proof ____ <input type="checkbox"/> Use ____	<b>9.03.04</b> Apply sealants  Rating ____ Complete Proof ____ <input type="checkbox"/> Use ____	<b>9.03.05</b> Connect components  Rating ____ Complete Proof ____ <input type="checkbox"/> Use ____

9 - D  
(cont'd)

Learning Outcome  
Installs equipment and  
components for  
combustion air and make-  
up air

**Task 9**  
**Learning Needs**

**Sub-Tasks**  
Learning Objectives  
to be completed  
Comments

**Rating:**

- 6 - Expert, perform a task beyond expected level and quality of performance, lead and/or teach others  
5 - Highly skilled, perform a task to the highest level and quality of performance, supervise others  
4 - Meet task timelines and perform tasks to the highest level and quality required by industry, without supervision  
**3 - Complete a task to the level and quality of performance required by industry without assistance or supervision**  
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1 - Complete task with assistance and constant supervision

**Type of Proof:**

O - Observation

I - Interview

D - Documentation

**Use:**

1 -Daily

2 - Often

3 - Seldom

4 - Never

Knowledge, Skills and Abilities - Competencies

<p><b>SUB-TASK</b> <b>9.04</b></p> <p><u>Learning Objective</u> <b>Secures equipment and components to structure</b></p> <p>JP Sign-off _____</p>	<p><b>9.04.01</b> Select fasteners and supports</p> <p>Rating ____ Complete Proof ____ <input type="checkbox"/> Use ____</p>	<p><b>9.04.02</b> Apply manufacturers' specifications</p> <p>Rating ____ Complete Proof ____ <input type="checkbox"/> Use ____</p>	<p><b>9.04.03</b> Apply relevant sections of codes</p> <p>Rating ____ Complete Proof ____ <input type="checkbox"/> Use ____</p>	<p><b>9.04.04</b> Measure spacing for fasteners and supports</p> <p>Rating ____ Complete Proof ____ <input type="checkbox"/> Use ____</p>	<p><b>9.04.05</b> Fasten equipment and components to structure</p> <p>Rating ____ Complete Proof ____ <input type="checkbox"/> Use ____</p>
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**Oil Burner Mechanic**

**BLOCK E**  
18% - 20 Questions on the IP exam

Learning Category  
**ELECTRICAL/  
ELECTRONIC SYSTEMS**

**Task 10 - E**  
4 questions on the IP exam

Learning Outcome  
**Installs electrical and electronic systems**

Journeyperson  
Sign-off  
Task 10

Complete ☐

Incomplete ☐

**Task 10 Learning Needs**

**Sub-Tasks**  
Learning Objectives  
to be completed  
Comments

Knowledge, Skills and Abilities - Competencies

<b>SUB-TASK 10.01</b>  <u>Learning Objective</u> <b>Selects controls and components</b>  <b>JP Sign-off</b> _____	<b>10.01.01</b> Identify types of controls  Rating ____ Complete Proof ____ <input type="checkbox"/> Use ____	<b>10.01.02</b> Calculate types of loads  Rating ____ Complete Proof ____ <input type="checkbox"/> Use ____	<b>10.01.03</b> Determine sequence of operation of controls  Rating ____ Complete Proof ____ <input type="checkbox"/> Use ____	<b>10.01.04</b> Determine application of controls and components  Rating ____ Complete Proof ____ <input type="checkbox"/> Use ____	<b>10.01.05</b> Apply relevant sections of electrical, building and oil codes  Rating ____ Complete Proof ____ <input type="checkbox"/> Use ____
	<b>10.01.05</b> Demonstrate an under-standing of basic electronic theory as it relates to system components such as elec-tronic controls, Electronically Commutated Motors (ECM) and hydronic mixing controls  Rating ____ Complete Proof ____ <input type="checkbox"/> Use ____	<b>10.01.02</b> Demonstrate a working knowledge of basic electrical principles as they relate to system operation  Rating ____ Complete Proof ____ <input type="checkbox"/> Use ____	<b>10.01.02</b> Demonstrate an understanding of the system and its design  Rating ____ Complete Proof ____ <input type="checkbox"/> Use ____		
<b>SUB-TASK 10.02</b>  <u>Learning Objective</u> <b>Selects location of controls and components</b>  <b>JP Sign-off</b> _____	<b>10.02.01</b> Determine positioning of controls, loads and wiring  Rating ____ Complete Proof ____ <input type="checkbox"/> Use ____	<b>10.02.02</b> Apply manufacturers' specifications  Rating ____ Complete Proof ____ <input type="checkbox"/> Use ____	<b>10.02.03</b> Apply relevant sections of electrical, building and oil codes  Rating ____ Complete Proof ____ <input type="checkbox"/> Use ____	<b>10.02.04</b> Position controls, loads and wiring  Rating ____ Complete Proof ____ <input type="checkbox"/> Use ____	<b>10.02.05</b> Measure distances  Rating ____ Complete Proof ____ <input type="checkbox"/> Use ____
	<b>10.01.06</b> Recognize physical and environmental limitations of controls and loads  Rating ____ Complete Proof ____ <input type="checkbox"/> Use ____				



**Task 10 - E  
(cont'd)**

Learning Outcome  
Installs electrical and  
electronic systems

**Task 10  
Learning Needs**

**Sub-Tasks**  
Learning Objectives  
to be completed  
Comments

**Rating:**

- 6 - Expert, perform a task beyond expected level and quality of performance, lead and/or teach others  
5 - Highly skilled, perform a task to the highest level and quality of performance, supervise others  
4 - Meet task timelines and perform tasks to the highest level and quality required by industry, without supervision  
**3 - Complete a task to the level and quality of performance required by industry without assistance or supervision**  
2 - Complete a task with some assistance and supervision  
1 - Complete task with assistance and constant supervision

**Type of Proof:**

O - Observation      I - Interview      D - Documentation

**Use:**

1 - Daily      2 - Often      3 - Seldom      4 - Never

Knowledge, Skills and Abilities - Competencies

SUB-TASK 10.03  <u>Learning Objective</u> Installs controls and components  JP Sign-off _____	10.03.01 Select and apply fasteners and supports  Rating ____ Complete Proof ____ <input type="checkbox"/> Use ____	10.03.02 Apply manufacturers' specifications  Rating ____ Complete Proof ____ <input type="checkbox"/> Use ____	10.03.03 Apply relevant sections of codes  Rating ____ Complete Proof ____ <input type="checkbox"/> Use ____	10.03.04 Apply basic carpentry skills  Rating ____ Complete Proof ____ <input type="checkbox"/> Use ____	10.03.05 Install wire  Rating ____ Complete Proof ____ <input type="checkbox"/> Use ____
	10.03.06 Follow wiring diagram  Rating ____ Complete Proof ____ <input type="checkbox"/> Use ____	10.03.07 Fasten controls and components  Rating ____ Complete Proof ____ <input type="checkbox"/> Use ____			

**Task 11 - E**  
4 questions on the IP exam

Learning Outcome  
Tests electrical and electronic systems

Journeyperson  
Sign-off  
Task 11

Complete ☐

Incomplete ☐

**Task 11**  
**Learning Needs**

**Sub-Tasks**  
Learning Objectives  
to be completed  
Comments

Knowledge, Skills and Abilities - Competencies

<p><b>SUB-TASK 11.01</b></p> <p><u>Learning Objective</u> Cycles appliance control</p> <p>JP Sign-off _____</p>	<p><b>11.01.01</b> Identify operation of controls</p> <p>Rating ____ Complete Proof ____ <input type="checkbox"/> Use ____</p>	<p><b>11.01.02</b> Determine sequence of operation of system</p> <p>Rating ____ Complete Proof ____ <input type="checkbox"/> Use ____</p>	<p><b>11.01.03</b> Operate appliance controls</p> <p>Rating ____ Complete Proof ____ <input type="checkbox"/> Use ____</p>		
<p><b>SUB-TASK 11.02</b></p> <p><u>Learning Objective</u> Checks operating and safety controls</p> <p>JP Sign-off _____</p>	<p><b>11.02.01</b> Demonstrate an understanding of system operations</p> <p>Rating ____ Complete Proof ____ <input type="checkbox"/> Use ____</p>	<p><b>11.02.02</b> Test circuits</p> <p>Rating ____ Complete Proof ____ <input type="checkbox"/> Use ____</p>	<p><b>11.02.03</b> Evaluate set points</p> <p>Rating ____ Complete Proof ____ <input type="checkbox"/> Use ____</p>	<p><b>11.02.04</b> Disable operating components</p> <p>Rating ____ Complete Proof ____ <input type="checkbox"/> Use ____</p>	<p><b>11.02.05</b> Trace circuits</p> <p>Rating ____ Complete Proof ____ <input type="checkbox"/> Use ____</p>
	<p><b>11.02.06</b> Verify that controls operate to system specifications through full cycle</p> <p>Rating ____ Complete Proof ____ <input type="checkbox"/> Use ____</p>				
<p><b>SUB-TASK 11.03</b></p> <p><u>Learning Objective</u> Checks accessories and components</p> <p>JP Sign-off _____</p>	<p><b>11.03.01</b> Identify types of accessories such as zone valves, booster pumps and air cleaning devices</p> <p>Rating ____ Complete Proof ____ <input type="checkbox"/> Use ____</p>	<p><b>11.03.02</b> Identify types of components such as circulators, blower motors and burners</p> <p>Rating ____ Complete Proof ____ <input type="checkbox"/> Use ____</p>	<p><b>11.03.03</b> Determine system operation</p> <p>Rating ____ Complete Proof ____ <input type="checkbox"/> Use ____</p>	<p><b>11.03.04</b> Determine operation of circuits</p> <p>Rating ____ Complete Proof ____ <input type="checkbox"/> Use ____</p>	<p><b>11.03.05</b> Use multi-meters and diagnostic equipment</p> <p>Rating ____ Complete Proof ____ <input type="checkbox"/> Use ____</p>
	<p><b>11.03.06</b> Test circuits, accessories and components</p> <p>Rating ____ Complete Proof ____ <input type="checkbox"/> Use ____</p>	<p><b>11.03.07</b> Interpret readings</p> <p>Rating ____ Complete Proof ____ <input type="checkbox"/> Use ____</p>	<p><b>11.03.08</b> Verify that circuits, accessories and components operate to system specifications through full cycle</p> <p>Rating ____ Complete Proof ____ <input type="checkbox"/> Use ____</p>		

**Task 11 - E  
(cont'd)**

Learning Outcome  
Tests electrical and  
electronic systems

**Task 11  
Learning Needs**

**Sub-Tasks**  
Learning Objectives  
to be completed  
Comments

**Rating:**

- 6 - Expert, perform a task beyond expected level and quality of performance, lead and/or teach others  
5 - Highly skilled, perform a task to the highest level and quality of performance, supervise others  
4 - Meet task timelines and perform tasks to the highest level and quality required by industry, without supervision  
**3 - Complete a task to the level and quality of performance required by industry without assistance or supervision**  
2 - Complete a task with some assistance and supervision  
1 - Complete task with assistance and constant supervision

**Type of Proof:**

O - Observation      I - Interview      D - Documentation

**Use:**

1 - Daily      2 - Often      3 - Seldom      4 - Never

Knowledge, Skills and Abilities - Competencies

SUB-TASK 11.04  <u>Learning Objective</u> Sets up operating parameters  JP Sign-off _____	11.04.01 Interpret system specifications	11.04.02 Assess operating controls such as thermostat, aquastat and fan control	11.04.03 Adjust controls	11.04.04 Adjust equipment and components to meet system design
	Rating ____ Complete Proof ____ <input type="checkbox"/> Use ____	Rating ____ Complete Proof ____ <input type="checkbox"/> Use ____	Rating ____ Complete Proof ____ <input type="checkbox"/> Use ____	Rating ____ Complete Proof ____ <input type="checkbox"/> Use ____

**Oil Burner Mechanic**

**BLOCK F**  
19% - 21 Questions on the IP exam

Learning Category  
**MAINTENANCE, REPAIR AND REMOVAL**

**Task 12 - F**  
4 questions on the IP exam

Learning Outcome  
**Maintains oil-fired heating systems and components**

Journeyperson  
Sign-off  
Task 12

Complete ☐

Incomplete ☐

**Task 12**  
**Learning Needs**

**Sub-Tasks**  
Learning Objectives  
to be completed  
Comments

Knowledge, Skills and Abilities - Competencies

<b>SUB-TASK 12.01</b>  <u>Learning Objective</u> <b>Checks oil-fired heating system and components</b>  <b>JP Sign-off</b> ____	<b>12.01.01</b> Evaluate equipment and its operation  Rating ____ <b>Complete</b> Proof ____ <input type="checkbox"/> Use ____	<b>12.01.02</b> Assess service history  Rating ____ <b>Complete</b> Proof ____ <input type="checkbox"/> Use ____	<b>12.01.03</b> Determine condition of equipment  Rating ____ <b>Complete</b> Proof ____ <input type="checkbox"/> Use ____	<b>12.01.04</b> Identify potential problem areas  Rating ____ <b>Complete</b> Proof ____ <input type="checkbox"/> Use ____
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<b>SUB-TASK 12.02</b>  <u>Learning Objective</u> <b>Cleans components</b>  <b>JP Sign-off</b> ____	<b>12.02.01</b> Perform cleaning methods such as vacuuming, flushing and washing  Rating ____ <b>Complete</b> Proof ____ <input type="checkbox"/> Use ____	<b>12.02.02</b> Select cleaning materials  Rating ____ <b>Complete</b> Proof ____ <input type="checkbox"/> Use ____	<b>12.02.03</b> Drain and recharge expansion tanks  Rating ____ <b>Complete</b> Proof ____ <input type="checkbox"/> Use ____	<b>12.02.04</b> Clean distribution fan  Rating ____ <b>Complete</b> Proof ____ <input type="checkbox"/> Use ____	<b>12.02.05</b> Clean burner components  Rating ____ <b>Complete</b> Proof ____ <input type="checkbox"/> Use ____
	<b>12.02.06</b> Clean exhaust components such as sidewall vents, direct vents, smoke pipe and chimneys  Rating ____ <b>Complete</b> Proof ____ <input type="checkbox"/> Use ____	<b>12.02.07</b> Set or adjust temperature and pressure controls  Rating ____ <b>Complete</b> Proof ____ <input type="checkbox"/> Use ____			

<b>SUB-TASK 12.03</b>  <u>Learning Objective</u> <b>Changes preventative maintenance components</b>  <b>JP Sign-off</b> ____	<b>12.03.01</b> Identify types of preventative maintenance components such as nozzles, oil filters, air filters, fan belts and gaskets  Rating ____ <b>Complete</b> Proof ____ <input type="checkbox"/> Use ____	<b>12.03.02</b> Evaluate component specifications  Rating ____ <b>Complete</b> Proof ____ <input type="checkbox"/> Use ____	<b>12.03.03</b> Access components  Rating ____ <b>Complete</b> Proof ____ <input type="checkbox"/> Use ____	<b>12.03.04</b> Install new components  Rating ____ <b>Complete</b> Proof ____ <input type="checkbox"/> Use ____
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<b>SUB-TASK 12.04</b>  <u>Learning Objective</u> <b>Lubricates moving components</b>  <b>JP Sign-off</b> ____	<b>12.04.01</b> Identify types of lubricants  Rating ____ <b>Complete</b> Proof ____ <input type="checkbox"/> Use ____	<b>12.04.02</b> Determine lubrication requirements such as frequency, locations and amount of lubricant  Rating ____ <b>Complete</b> Proof ____ <input type="checkbox"/> Use ____	<b>12.04.03</b> Apply lubricant  Rating ____ <b>Complete</b> Proof ____ <input type="checkbox"/> Use ____
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**Task 13 - F**  
4 questions on the IP exam

Learning Outcome  
Diagnoses oil-fired heating systems and components

Journeyperson  
Sign-off  
Task 13

Complete ☐  
Incomplete ☐

**Task 13**  
**Learning Needs**

**Sub-Tasks**  
Learning Objectives  
to be completed  
Comments

**Rating:**

- 6 - Expert, perform a task beyond expected level and quality of performance, lead and/or teach others  
5 - Highly skilled, perform a task to the highest level and quality of performance, supervise others  
4 - Meet task timelines and perform tasks to the highest level and quality required by industry, without supervision  
**3 - Complete a task to the level and quality of performance required by industry without assistance or supervision**  
2 - Complete a task with some assistance and supervision  
1 - Complete task with assistance and constant supervision

**Type of Proof:**

O - Observation      I - Interview      D - Documentation

**Use:**

1 - Daily      2 - Often      3 - Seldom      4 - Never

Knowledge, Skills and Abilities - Competencies

<b>SUB-TASK 13.01</b>  <u>Learning Objective</u> <b>Checks for electrical problems</b>  <b>JP Sign-off</b> _____	<b>13.01.01</b> Determine sequence of operation  Rating ____ Complete Proof ____ <input type="checkbox"/> Use ____	<b>13.01.02</b> Apply basic electrical principles  Rating ____ Complete Proof ____ <input type="checkbox"/> Use ____	<b>13.01.03</b> Perform electrical testing procedures  Rating ____ Complete Proof ____ <input type="checkbox"/> Use ____	<b>13.01.04</b> Interpret component schematics  Rating ____ Complete Proof ____ <input type="checkbox"/> Use ____	<b>13.01.05</b> Check for polarity  Rating ____ Complete Proof ____ <input type="checkbox"/> Use ____
	<b>13.01.06</b> Check for continuity  Rating ____ Complete Proof ____ <input type="checkbox"/> Use ____	<b>13.01.07</b> Check voltage  Rating ____ Complete Proof ____ <input type="checkbox"/> Use ____	<b>13.01.08</b> Check amperage  Rating ____ Complete Proof ____ <input type="checkbox"/> Use ____	<b>13.01.09</b> Check resistance  Rating ____ Complete Proof ____ <input type="checkbox"/> Use ____	
<b>SUB-TASK 13.02</b>  <u>Learning Objective</u> <b>Checks for burner problems</b>  <b>JP Sign-off</b> _____	<b>13.02.01</b> Determine burner operation  Rating ____ Complete Proof ____ <input type="checkbox"/> Use ____	<b>13.02.02</b> Identify and select burner components  Rating ____ Complete Proof ____ <input type="checkbox"/> Use ____	<b>13.02.03</b> Recognize safety features such as primary controls and flame sensors  Rating ____ Complete Proof ____ <input type="checkbox"/> Use ____	<b>13.02.04</b> Apply combustion testing procedures  Rating ____ Complete Proof ____ <input type="checkbox"/> Use ____	<b>13.02.05</b> Check fuel supply  Rating ____ Complete Proof ____ <input type="checkbox"/> Use ____
	<b>13.02.06</b> Check ignition  Rating ____ Complete Proof ____ <input type="checkbox"/> Use ____	<b>13.02.07</b> Check flame  Rating ____ Complete Proof ____ <input type="checkbox"/> Use ____	<b>13.02.08</b> Check safety features  Rating ____ Complete Proof ____ <input type="checkbox"/> Use ____		

**Task 13 - F  
(cont'd)**

Learning Outcome  
**Diagnoses oil-fired heating  
systems and components**

**Task 13  
Learning Needs**

**Sub-Tasks**  
Learning Objectives  
to be completed  
Comments

Knowledge, Skills and Abilities - Competencies

<b>SUB-TASK 13.03</b>  <u>Learning Objective</u> <b>Checks for distribution problems</b>  <b>JP Sign-off</b> _____	<b>13.03.01</b> Identify distribution systems and components	<b>13.03.02</b> Diagnosis distribution problems such as no heat, insufficient heat and excessive heat	<b>13.03.03</b> Perform testing procedures	<b>13.03.04</b> Isolate source of problem
	Rating ____ <b>Complete</b> Proof ____ <input type="checkbox"/> Use ____	Rating ____ <b>Complete</b> Proof ____ <input type="checkbox"/> Use ____	Rating ____ <b>Complete</b> Proof ____ <input type="checkbox"/> Use ____	Rating ____ <b>Complete</b> Proof ____ <input type="checkbox"/> Use ____

<b>SUB-TASK 13.04</b>  <u>Learning Objective</u> <b>Checks for problems with combustion air and make- up air</b>  <b>JP Sign-off</b> _____	<b>13.04.01</b> Evaluate combustion air and make-up air requirements	<b>13.04.02</b> Determine building alterations	<b>13.04.03</b> Perform testing procedures	<b>13.04.04</b> Check for blockages	<b>13.04.05</b> Check pressure differential
	Rating ____ <b>Complete</b> Proof ____ <input type="checkbox"/> Use ____	Rating ____ <b>Complete</b> Proof ____ <input type="checkbox"/> Use ____	Rating ____ <b>Complete</b> Proof ____ <input type="checkbox"/> Use ____	Rating ____ <b>Complete</b> Proof ____ <input type="checkbox"/> Use ____	Rating ____ <b>Complete</b> Proof ____ <input type="checkbox"/> Use ____

**Task 14 - F**  
4 questions on the IP exam

Learning Outcome  
Repairs oil-fired heating systems and components

Journeyperson  
Sign-off  
Task 14

Complete ☐  
Incomplete ☐

**Task 14**  
**Learning Needs**

**Sub-Tasks**  
Learning Objectives  
to be completed  
Comments

**Rating:**

- 6 - Expert, perform a task beyond expected level and quality of performance, lead and/or teach others  
5 - Highly skilled, perform a task to the highest level and quality of performance, supervise others  
4 - Meet task timelines and perform tasks to the highest level and quality required by industry, without supervision  
**3 - Complete a task to the level and quality of performance required by industry without assistance or supervision**  
2 - Complete a task with some assistance and supervision  
1 - Complete task with assistance and constant supervision

**Type of Proof:**

O - Observation      I - Interview      D - Documentation

**Use:**

1 - Daily      2 - Often      3 - Seldom      4 - Never

Knowledge, Skills and Abilities - Competencies

<b>SUB-TASK</b> <b>14.01</b>  <u>Learning Objective</u> Corrects electrical problems  <b>JP Sign-off</b> ____	<b>14.01.01</b> Apply basic electrical principles  Rating ____ Complete Proof ____ <input type="checkbox"/> Use ____	<b>14.01.02</b> Apply relevant sections of electrical codes  Rating ____ Complete Proof ____ <input type="checkbox"/> Use ____	<b>14.01.03</b> Interpret component schematics  Rating ____ Complete Proof ____ <input type="checkbox"/> Use ____	<b>14.01.04</b> Lock out equipment  Rating ____ Complete Proof ____ <input type="checkbox"/> Use ____	<b>14.01.05</b> Reset switches and breakers  Rating ____ Complete Proof ____ <input type="checkbox"/> Use ____
	<b>14.01.06</b> Replace defective electrical components  Rating ____ Complete Proof ____ <input type="checkbox"/> Use ____	<b>14.01.07</b> Repair damaged wires and terminals  Rating ____ Complete Proof ____ <input type="checkbox"/> Use ____			
<b>SUB-TASK</b> <b>14.02</b>  <u>Learning Objective</u> Corrects burner problems  <b>JP Sign-off</b> ____	<b>14.02.01</b> Determine burner operation  Rating ____ Complete Proof ____ <input type="checkbox"/> Use ____	<b>14.02.02</b> Identify burner components  Rating ____ Complete Proof ____ <input type="checkbox"/> Use ____	<b>14.02.03</b> Determine safety features  Rating ____ Complete Proof ____ <input type="checkbox"/> Use ____	<b>14.02.04</b> Interpret component schematics  Rating ____ Complete Proof ____ <input type="checkbox"/> Use ____	<b>14.02.05</b> Repair and replace defective burner components  Rating ____ Complete Proof ____ <input type="checkbox"/> Use ____
	<b>14.02.06</b> Set operating parameters  Rating ____ Complete Proof ____ <input type="checkbox"/> Use ____	<b>14.02.07</b> Reset burner components  Rating ____ Complete Proof ____ <input type="checkbox"/> Use ____			

**Task 14 - F  
(cont'd)**

Learning Outcome  
**Repairs oil-fired heating  
systems and components**

**Task 14  
Learning Needs**

**Sub-Tasks**  
Learning Objectives  
to be completed  
Comments

**Knowledge, Skills and Abilities - Competencies**

<b>SUB-TASK 14.03</b>  <u>Learning Objective</u> <b>Corrects distribution problems</b>  <b>JP Sign-off _____</b>	<b>14.03.01</b> Evaluate distribution systems and components  Rating ____ <b>Complete</b> Proof ____ <input type="checkbox"/> Use ____	<b>14.03.02</b> Assess building alterations  Rating ____ <b>Complete</b> Proof ____ <input type="checkbox"/> Use ____	<b>14.03.03</b> Interpret component schematics  Rating ____ <b>Complete</b> Proof ____ <input type="checkbox"/> Use ____	<b>14.03.04</b> Repair and replace defective distribution components  Rating ____ <b>Complete</b> Proof ____ <input type="checkbox"/> Use ____	<b>14.03.05</b> Purge hydronic distribution system  Rating ____ <b>Complete</b> Proof ____ <input type="checkbox"/> Use ____
	<b>14.03.06</b> Realign and adjust drive belts and pulleys  Rating ____ <b>Complete</b> Proof ____ <input type="checkbox"/> Use ____	<b>14.03.07</b> Set operating parameters  Rating ____ <b>Complete</b> Proof ____ <input type="checkbox"/> Use ____			



**Task 15 - F**  
4 questions on the IP exam

Learning Outcome  
Removes appliances and components

Journeyperson  
Sign-off  
Task 15

Complete ☐  
Incomplete ☐

**Task 15**  
**Learning Needs**

**Sub-Tasks**  
Learning Objectives  
to be completed  
Comments

**Rating:**

- 6 - Expert, perform a task beyond expected level and quality of performance, lead and/or teach others  
5 - Highly skilled, perform a task to the highest level and quality of performance, supervise others  
4 - Meet task timelines and perform tasks to the highest level and quality required by industry, without supervision  
**3 - Complete a task to the level and quality of performance required by industry without assistance or supervision**  
2 - Complete a task with some assistance and supervision  
1 - Complete task with assistance and constant supervision

**Type of Proof:**

O - Observation      I - Interview      D - Documentation

**Use:**

1 - Daily      2 - Often      3 - Seldom      4 - Never

Knowledge, Skills and Abilities - Competencies

<b>SUB-TASK 15.01</b>  <u>Learning Objective</u> <b>Decommissions appliance and components</b>  <b>JP Sign-off</b> _____	<b>15.01.01</b> Interpret and apply WHMIS  Rating ____ Complete Proof ____ <input type="checkbox"/> Use ____	<b>15.01.02</b> Recognize material handling hazards  Rating ____ Complete Proof ____ <input type="checkbox"/> Use ____	<b>15.01.03</b> Identify waste products such as fuel tanks, oil, glycol, mercury, heavy metals, asbestos and contaminated soil  Rating ____ Complete Proof ____ <input type="checkbox"/> Use ____	<b>15.01.04</b> Identify products that can be recycled components  Rating ____ Complete Proof ____ <input type="checkbox"/> Use ____	<b>15.01.05</b> Disconnect utilities  Rating ____ Complete Proof ____ <input type="checkbox"/> Use ____
	<b>15.01.06</b> Drain system  Rating ____ Complete Proof ____ <input type="checkbox"/> Use ____	<b>15.01.07</b> Seal breeches  Rating ____ Complete Proof ____ <input type="checkbox"/> Use ____	<b>15.01.08</b> Strap ductwork and pipings  Rating ____ Complete Proof ____ <input type="checkbox"/> Use ____	<b>15.01.09</b> Disassemble appliance  Rating ____ Complete Proof ____ <input type="checkbox"/> Use ____	
<b>SUB-TASK 15.02</b>  <u>Learning Objective</u> <b>Disposes of waste products</b>  <b>JP Sign-off</b> _____	<b>15.02.01</b> Follow jurisdictional guidelines and requirements for storage and disposal of removed components  Rating ____ Complete Proof ____ <input type="checkbox"/> Use ____	<b>15.02.02</b> Identify containment systems  Rating ____ Complete Proof ____ <input type="checkbox"/> Use ____	<b>15.02.03</b> Interpret and apply WHMIS  Rating ____ Complete Proof ____ <input type="checkbox"/> Use ____	<b>15.02.04</b> Interpret and apply TDG regulations and signage  Rating ____ Complete Proof ____ <input type="checkbox"/> Use ____	<b>15.02.05</b> Identify and utilize local resources for disposal such as environmental agencies, coast guard and certified disposal companies  Rating ____ Complete Proof ____ <input type="checkbox"/> Use ____
	<b>15.02.06</b> Handle waste products and containers  Rating ____ Complete Proof ____ <input type="checkbox"/> Use ____				

# APPENDIX A

## OIL BURNER MECHANIC NATIONAL OCCUPATIONAL ANALYSIS GLOSSARY OF TERMS

Appliance	A device to convert fuel into energy, and including all components, controls, wiring, and piping required as part of the device by the applicable standard
Boiler	An appliance intended to supply hot water or steam for space heating, processing or power purposes
Burner	a device or group of devices forming an integral unit for the introduction of fuel, with or without air or oxygen, into the combustion zone for ignition
Chimney	A primarily vertical shaft enclosing at least one vent for conducting flue gases to the outside atmosphere
Combustion air	the air required for satisfactory combustion of fuel, including excess air
Component	An essential part of an appliance that may be certified separately from the appliance
Damper	A movable plate or valve for regulating the flow of air or flue gas
Decommission	Take out of service, dismantle and make safe
Dump zone	Safety bypass that diverts the excess temperature and pressure in the heating system
Forced air furnace	a furnace equipped with a blower which provides the primary means for circulation of air (refer to furnace)

Fuel oil	Kerosene or any hydrocarbon oil as classified in CSA Standard B140.0, General Requirements for Oil Burning Equipment
Furnace	A space-heating appliance, using warm air as the heating medium, and usually having provision for the attachment of ducts
Heat exchanger	The firebox and any auxiliary heat transfer surfaces within the casing of an appliance
Ignition	Establishment of a flame
Incinerator	An appliance in which combustible wastes are ignited and burned
Indirect water heater	A water heater which derives its heat from a heating medium such as warm air, steam or hot water
Limit control	A safety control intended to prevent unsafe conditions of temperature, pressure or liquid level
Make-up air	Fresh air that is introduced to the furnace room to replace air that has been exhausted
Manual damper	An adjustable damper manually set and locked in the desired position
Piping	The fuel conduits of circular cross section that are of sufficient wall thickness and or suitable outside diameter for threading to Iron Pipe Size (IPS) Standards, and that are specified by nominal inside diameter (ID)
Plenum	A chamber for distributing warm air from a furnace to the supply ducts (supply plenum), or for receiving air to be heated by the furnace (return plenum)
Retrofit	To replace an obsolete or defective component for the purpose of updating the heating system

Safety control	An automatic control of a safety control system that is intended to automatically prevent unsafe operation of the controlled equipment, and may include relays, switches and other auxiliary equipment and interconnecting circuitry
Storage tank	A tank for the storage of fuel and from which the fuel-burning equipment is not intended to be fed automatically
Tubing	Fuel conduits of circular cross section that are not of sufficient wall thickness or of suitable outside diameter to permit threading to Iron Pipe Size (IPS) Standards, and are specified by outside diameter (OD)
Valve	a device by which the flow of a fluid may be started, stopped or regulated by a movable part which opens or obstructs passage
Vent	An enclosed passageway for conveying flue gases
Venting	The removal of flue gases or vent gases to the outside air by means of building openings or venting systems
Venting system	a system for the removal of flue gases or vent gases to the outside air by means of vent connectors, chimneys, gas vents or exhaust systems, natural or mechanical
Water heater	An appliance intended for the heating of water for plumbing services

# Oil Burner Mechanic National Occupational Analysis

## ACRONYMS

<b>ECM</b>	Electronically Commutated Motors
<b>TDG</b>	Transportation of Dangerous Goods
<b>WHMIS</b>	Workplace Hazardous Materials Information System

## APPENDIX B

ESSENTIAL SKILL	REQUIRED ESSENTIAL SKILLS TASKS FOR TRADES
<b>Technical Reading</b>	<ul style="list-style-type: none"> <li>➤ Find and use information from one source - i.e., a book, Internet, and work order</li> <li>➤ Find and use information from many parts of a single source - i.e., a code book</li> <li>➤ Recognize what is important from several sources of information</li> <li>➤ Interpret information using more than one source</li> <li>➤ Apply information to the task</li> </ul>
<b>Document Use</b>	<ul style="list-style-type: none"> <li>➤ Use large or difficult documents which are organized into units, headings chapters or sub-headings -i.e., a code book</li> <li>➤ Find information in large or very specialized documents which may have many smaller documents - i.e., operations manuals, safety manuals</li> <li>➤ Find information from many sources - i.e., code books, blueprints, work manuals</li> <li>➤ Enter information into pre-set documents and forms - i.e., accident report forms, order forms</li> <li>➤ Combine information from several sources and use it – i.e., alter a work order using information from code books, manuals and blueprints</li> <li>➤ Create new documents using information from a variety of sources – i.e., create work orders, material lists, time log sheets</li> </ul>

ESSENTIAL SKILL	REQUIRED ESSENTIAL SKILLS TASKS FOR TRADES
<b>Writing</b>	<ul style="list-style-type: none"> <li>➤ Write information into a pre-set form – i.e., contract, lease, building permit</li> <li>➤ Write short messages, explanations, requests or directions – i.e., write a work order, memo, written message for a foreman, supervisor or client</li> <li>➤ Write longer messages, explanations, requests or directions – i.e., write an accident report, a detailed message to a foreman, supervisor or client</li> <li>➤ Write a longer article which may need to be organized into headings with a table of contents, i.e., work report, section of a work manual</li> <li>➤ Write detailed, non-routine articles – i.e., make recommendations, use technical language to give directions to or ask for information from other tradespeople</li> </ul>
<b>Math</b>	<ul style="list-style-type: none"> <li>➤ Perform math calculations using formulas, fractions, decimals and percent</li> <li>➤ Combine one or more math operations to solve a problem</li> <li>➤ Estimate numbers</li> <li>➤ Convert between imperial and metric measurement systems</li> <li>➤ Solve equations</li> <li>➤ Use trigonometry to solve problems (not a requirement in every trade)</li> </ul>

ESSENTIAL SKILL	REQUIRED ESSENTIAL SKILLS TASKS FOR TRADES
<b>Computer Use</b>	<ul style="list-style-type: none"> <li>➤ Perform basic computer operations needed to produce a document – i.e., a letter</li> <li>➤ Find information on the Internet</li> <li>➤ Find information in workplace databases</li> <li>➤ Send and receive e-mail</li> <li>➤ Enter data into a set format – i.e., form, spreadsheet, chart</li> <li>➤ Manage electronic information – i.e., save files</li> <li>➤ Choose and use the best software program for the task</li> </ul>
<b>Oral Communication</b>	<ul style="list-style-type: none"> <li>➤ Take directions from a supervisor or co-workers on work-related projects</li> <li>➤ Give directions to co-workers on work-related projects</li> <li>➤ Exchange information using trade terminology</li> <li>➤ Provide details on facts</li> <li>➤ Provide opinions on work-related projects</li> <li>➤ Organize, present and interpret ideas in a logical manner</li> <li>➤ Communicate one-on-one or in a group about complex work-related matters</li> </ul>



ESSENTIAL SKILL	REQUIRED ESSENTIAL SKILLS TASKS FOR TRADES
<b>Thinking Skills</b>	<ul style="list-style-type: none"> <li>➤ Identify problems</li> <li>➤ Apply learning from previous experiences to identify possible solutions to a problem</li> <li>➤ Find, evaluate and choose appropriate information to solve a problem</li> <li>➤ Evaluate the best possible solution to a problem</li> <li>➤ Make decisions</li> <li>➤ Plan and organize job tasks to set time-lines</li> <li>➤ Ensure quality control standards are met</li> </ul>
<b>Working with Others</b>	<ul style="list-style-type: none"> <li>➤ Complete tasks to industry standard under supervision</li> <li>➤ Complete tasks to industry standard without supervision</li> <li>➤ Complete assigned tasks to meet time-lines that meet project deadlines</li> <li>➤ Accept feedback</li> <li>➤ Give feedback</li> <li>➤ Evaluate and apply recommendations from co-workers</li> <li>➤ Resolve conflict</li> <li>➤ Mentor an apprentice</li> </ul>

ESSENTIAL SKILL	REQUIRED ESSENTIAL SKILLS TASKS FOR TRADES
<b>Continuous Learning</b>	<ul style="list-style-type: none"> <li>➤ Identify work/career strengths and areas for improvement</li> <li>➤ Develop a work/career learning plan</li> <li>➤ Set goals</li> <li>➤ Participate in learning opportunities to meet workplace goals</li> <li>➤ Apply new learning in the workplace environment</li> <li>➤ Revisit, reflect and revise the learning plan regularly</li> <li>➤ Engage in learning opportunities to keep skills current and meet career goals</li> </ul>

