

Licence to Operate a Reciprocating Steam Engine

Code	Name	Description
UEPOPL002-01PC	Plant Identification Major Components.	List the major components of each of the following systems and record what you believe the components function to be. 1. Main Steam System and Exhaust Steam System (if fitted). 2. Condensing System (if fitted) 3. Cooling System (if fitted) 4. Valve Gear and Reversing Gear (if fitted). 5. Lubrication system. 6. Engine Drains.
UEPOPL002-02PC	Workplace Health & Safety Legislation	* This is a prior to course requirement. Using a browser to connect to the Internet search for the Workplace Health and Safety Regulations for the jurisdiction in which you reside. For example; https://www.workcover.nsw.gov.au/ and then look for Laws & Legislation and locate the WHS Regulations. You should go to Part 4.5 High Risk Work and read and review it. Then in your own words write a short outline of the requirements for: 1. Training and Assessment to obtain a Licence to Perform High Risk Work. 2. Licence conditions such as duration, renewal, loss of licence, expiring licence, renewal etc. 3. Employer's obligations to High Risk Work. 4. PCBU obligations to High Risk Work.
UEPOPL002-1.1	Reciprocating Steam Engine Operations are Assessed and Prepared.	Explain to your mentor and list the considerations when planning Reciprocating Steam Engine Operation. Example: Returning from maintenance, Cold Start etc.
UEPOPL002-1.2	Personal Protective Equipment Use in Reciprocating Steam Engine Operations.	List the various Personal Protective Equipment you require when working on your plant. Explain to your mentor whenever there is any special PPE required. Example: Standard PPE for Hot Work, Special PPE such as a Face Mask when decanting Chemicals.
UEPOPL002-1.3	Hazard and Potential Hazards in work area are identified and assessed for risk and control.	Identify as many hazards as you can in your plant and list them. Explain to your mentor the methods of control you would put in place for three such hazards. Example: High Temperature Pipework - Ensure adequately insulated and where insulation is damaged barricade off.
UEPOPL002-1.4	Pre-operational safety checks of reciprocating steam engine are conducted according to procedures.	List the Reciprocating Steam Engine Pre-Start Checks you perform on site. Explain to your mentor what additional checks may be required when returning a Reciprocating Steam Engine to service. List these additional checks and explain one such check in detail.

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UEPOPL002-1.5	Maintenance requirements are identified and reported according to procedures.	List the process of identifying defects and how these are reported for maintenance. Explain what records are retained. Example: Plant inspections - SAP Reporting.
UEPOPL002-1.6	Appropriate Communications methods are identified according to procedures.	Identify all means of communications used in your workplace. List the different types and explain to your mentor when you would use each. Example: Two way radio - recommissioning.
UEPOPL002-2.1	Controls for identified hazards and potential hazards in work area are managed appropriately.	List the type of hazards and potential hazards that may arise during the starting of the Steam Turbine. Explain to your mentor the control measures you would adopt to manage the risk of three such hazards. Example: Drain Valve gland fails during the start-up phase. Area barricaded and fault reported.
UEPOPL002-2.2	Reciprocating Steam Engine started and placed on line according to procedures and Start-up checks.	Under direct supervision of the mentor perform start-up checks and bring a reciprocating steam engine on line according to company procedures and manufacturer's guidelines. You should perform this task sufficient times for your mentor to deem you competent in the practical operations. Example: Cold Start Milling Train Reciprocating Steam Engine placed on load. 55 minutes from first roll to full load.
UEPOPL002-2.3	Maintenance requirements are identified and reported according to procedures.	List the process of identifying defects during start-up and how these are reported for maintenance. Explain what records are retained. Example: Cykinder drains jamming while warming and trying to shut - Reported in Engine Log and Defects Register.
UEPOPL002-3.1	Reciprocating Steam Engine is monitored procedurally including operational checks and fault finding.	List the operating parameters monitored for your Reciprocating Steam Engine and document the reasons these parameters are important. Explain to your mentor the actions taken to correct any deviation for each parameter listed. Example: Steam Pressure - Locomotive Fireman to maintain firing to regulate pressure as required by the Driver.
UEPOPL002-3.2	Operating Log is maintained clearly and accurately, according to established procedures.	List the items that are normally recorded in the plant log book. Explain to your mentor the purpose of maintaining a log book. Complete a Log Book record for a shift and attach it to your Training Plan Log Book so you can demonstrate effective use. Example: Log of daily events, plant faults etc. - Log book records are a legal requirement, records history etc.

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UEPOPL002-3.3	Status of Reciprocating Steam Engine is communicated to other personnel including downstream users.	List and explain to the mentor who needs to be informed of the status of the Reciprocating Steam Engine during operations. Example: Shredder Operator in Sugar Mill as he/she needs to know when mills are in service before feeding cane.
UEPOPL002-4.1	Shutdown of Reciprocating Steam Engine according to procedures and manufacturer's instruction.	Under direct supervision of the mentor shutdown a Reciprocating Steam Engine according to company procedures and manufacturer's guidelines. You should perform this task sufficient times for your mentor to deem you competent in the practical operations. Example: Shutdown for short term outage. Offline for 4 hours.
UEPOPL002-4.2	Energy Isolation Procedures are followed.	Describe the Isolation Process and Permit to Work System to your mentor. Complete one small, one medium and one major isolation and provide a copy of the isolations with your Training Plan Look Book.
UEPOPL002-4.3	Maintenance requirements are identified, recorded and reported according to procedures.	Explain to the mentor three different maintenance tasks to be completed during an outage and list the task, the work group responsible and the operator involvement in assisting the maintenance staff to complete the work. Example: Cleaning - Engine idle and isolated with access for cleaning and consideration of environmental concerns etc.

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