

1. Title	Repair rotary screw air compressors									
2. Code	EMPERM214A									
3. Range	Perform routine repair for rotary screw air compressors in general industrial plants, power plants or other places.									
4. Level	2									
5. Credits	6									
6. Competency	<p style="text-align: center;"><u>Performance Requirements</u></p> <table border="0"> <tr> <td style="vertical-align: top;">6.1</td> <td style="vertical-align: top;">Structure and basic working principles of general rotary screw air compressors</td> <td style="vertical-align: top;"> <ul style="list-style-type: none"> ◆ Understand the structure and basic working principles of general rotary screw air compressors including screw gear drive system, bearing system, lubrication and air seal system, oil-gas separation system, cooling system, etc. </td> </tr> <tr> <td style="vertical-align: top;">6.2</td> <td style="vertical-align: top;">Methods and procedures of repairing general rotary screw air compressors</td> <td style="vertical-align: top;"> <ul style="list-style-type: none"> ◆ Understand the need and principles of scheduled repair and maintenance of general air compressors, including inspecting, maintaining and testing them ◆ Select and use repair and testing instruments and tools properly </td> </tr> <tr> <td style="vertical-align: top;">6.3</td> <td style="vertical-align: top;">Professionalism in repairing general rotary screw air compressors</td> <td style="vertical-align: top;"> <ul style="list-style-type: none"> ◆ Follow the requirements of practical guidelines and manufacturer's repair guidelines to perform repair for rotary screw air compressors </td> </tr> </table>	6.1	Structure and basic working principles of general rotary screw air compressors	<ul style="list-style-type: none"> ◆ Understand the structure and basic working principles of general rotary screw air compressors including screw gear drive system, bearing system, lubrication and air seal system, oil-gas separation system, cooling system, etc. 	6.2	Methods and procedures of repairing general rotary screw air compressors	<ul style="list-style-type: none"> ◆ Understand the need and principles of scheduled repair and maintenance of general air compressors, including inspecting, maintaining and testing them ◆ Select and use repair and testing instruments and tools properly 	6.3	Professionalism in repairing general rotary screw air compressors	<ul style="list-style-type: none"> ◆ Follow the requirements of practical guidelines and manufacturer's repair guidelines to perform repair for rotary screw air compressors
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7. Assessment Criteria	<p>The integrated outcome requirements of this unit of competency are:</p> <ul style="list-style-type: none"> (i) Capable to perform routine repair for rotary screw air compressors under instruction and according to guidelines; (ii) Capable to report the status of operation of rotary screw air compressors; and (iii) Capable to complete repair report forms for the rotary screw air compressors. 									
8. Remarks	The credit value of this unit of competency is set on the presumption that the person already possesses general mechanical repair techniques.									