

1. Title	Repair air heaters									
2. Code	EMPERM205A									
3. Range	Perform routine repair for air heaters 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 repairing methods of air heaters</td> <td style="vertical-align: top;"> <ul style="list-style-type: none"> ◆ Understand the structure and basic working principles of air heaters such as: <ul style="list-style-type: none"> • Rotating element type • Rotating hood type ◆ Understand the methods of repair and maintenance, causes and solutions of common defects of general air heaters </td> </tr> <tr> <td style="vertical-align: top;">6.2</td> <td style="vertical-align: top;">Techniques of repairing air heaters</td> <td style="vertical-align: top;"> <ul style="list-style-type: none"> ◆ Perform repair and maintenance for the air heaters, including: <ul style="list-style-type: none"> • Thrust bearing system (e.g. wearing) • Heating elements (e.g. wearing and corrosion) • Gaps of sealing components (prevent air leakage) • Cleaning, simple installation and removal of machinery parts (using cleaning materials to soak and wash) </td> </tr> <tr> <td style="vertical-align: top;">6.3</td> <td style="vertical-align: top;">Professionalism in repairing air heaters</td> <td style="vertical-align: top;"> <ul style="list-style-type: none"> ◆ Follow the requirements of the codes of practice and manufacturer's repair guidelines to perform repair for air preheaters </td> </tr> </table>	6.1	Structure and repairing methods of air heaters	<ul style="list-style-type: none"> ◆ Understand the structure and basic working principles of air heaters such as: <ul style="list-style-type: none"> • Rotating element type • Rotating hood type ◆ Understand the methods of repair and maintenance, causes and solutions of common defects of general air heaters 	6.2	Techniques of repairing air heaters	<ul style="list-style-type: none"> ◆ Perform repair and maintenance for the air heaters, including: <ul style="list-style-type: none"> • Thrust bearing system (e.g. wearing) • Heating elements (e.g. wearing and corrosion) • Gaps of sealing components (prevent air leakage) • Cleaning, simple installation and removal of machinery parts (using cleaning materials to soak and wash) 	6.3	Professionalism in repairing air heaters	<ul style="list-style-type: none"> ◆ Follow the requirements of the codes of practice and manufacturer's repair guidelines to perform repair for air preheaters
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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 the air heaters under instruction and according to guidelines; (ii) Capable to report the status of operation of air heaters; and (iii) Capable to complete repair report forms for the air heaters. 									
8. Remarks	The credit value of this unit of competency is set on the presumption that the person already possesses general installation bench fitting techniques and elementary mechanical knowledge.									