

1. Title	Install air duct systems
2. Code	EMACIN305A
3. Range	Perform installation of air duct systems at plants or installation sites.
4. Level	3
5. Credit	9
6. Competency	<p style="text-align: center;"><u>Performance Requirements</u></p> <p>6.1 Knowledge of making and installing air duct systems</p> <ul style="list-style-type: none"> <li>◆ Understand the requirements for making and installing galvanized sheet steel air ducts and accessories as laid down in the DW series requirements of HVCA</li> <li>◆ Understand the requirements for making and installing PVC air ducts and accessories as laid down in the DW series requirements of HVCA</li> <li>◆ Understand the requirements for making and installing pre-insulated duct board systems as laid down by HVCA</li> <li>◆ Understand the working principles of air filters, precipitators, air duct silencers, fan hoods and different types of fans</li> </ul> <p>6.2 Methods and procedures of making and installing air duct systems</p> <ul style="list-style-type: none"> <li>◆ Make and install metal air ducts and components, including: <ul style="list-style-type: none"> <li>• Making different types of galvanized sheet steel air ducts and accessories according to the DW codes as laid down by HVCA</li> <li>• Installing and joining different types of galvanized sheet steel air ducts and accessories according to the DW series requirements of HVCA</li> <li>• Installing air nozzles, splitter, vibration reduction joints</li> <li>• Installing volume control dampers, fire dampers and fusible-link smoke dampers</li> </ul> </li> <li>◆ Make and install non-metal air ducts and components, including: <ul style="list-style-type: none"> <li>• Making, installing and joining different types of PVC air ducts and accessories according to the DW series requirements of HVCA</li> <li>• Making, installing and joining pre-insulated air ducts according to the installation guidelines of manufacturers</li> <li>• Installing and joining flexible air ducts according to the installation guidelines of manufacturers</li> </ul> </li> </ul>

	<ul style="list-style-type: none"> <li>◆ Install typical air duct system equipment, including: <ul style="list-style-type: none"> <li>• Installing air filters, precipitators and other air-cleaning equipment</li> <li>• Installing air duct silencers</li> <li>• Installing fan hoods</li> </ul> </li> <li>◆ Install ventilation fans, including: <ul style="list-style-type: none"> <li>• Installing different types of exhaust fans</li> <li>• Installing supply air fans and return air fans for different types of air duct systems</li> </ul> </li> </ul> <p>6.3 Professionalism in installing air duct systems</p> <ul style="list-style-type: none"> <li>◆ Perform tasks of making and installing air duct systems according to the DW series requirements of HVCA or the codes of manufacturers</li> </ul>
7. Assessment Criteria	<p>The integrated outcome requirement of this unit of competency is:</p> <p>(i) Capable to undertake tasks of installing air duct systems systematically, efficiently and safely according to codes of practice.</p>
8. Remarks	<p>The credit value of this unit of competency is set on the presumption that the person already possesses basic knowledge and skills of installing air duct systems.</p>