



Bergen County Technical Schools
Adult & Continuing Education
190 Hackensack Ave, Hackensack, NJ 07601
Office: (201) 343-6000 ext. 5503

Work Based Activity (WBA) Student Plan
Heating, Air Conditioning, Ventilation & Refrigeration

Student Name: _____ WBA Internship Position: _____

WBA Site Name: _____

WBA Objectives

The Bergen County Technical Schools (BCTS) Adult & Continuing Education Full-Time Day Program has designed an action plan for students in their field of study to participate in WBAs or internships, as outlined by the Commission on Occupational Education (COE), this institution's accrediting agency. The plan provides: (a) students with the opportunity to develop and apply 'real-world' work experiences using the knowledge and skills attained in their program of study, and (b) input from potential employers or customers of program graduates for the institution to develop and monitor goals and objectives.

General WBA Goals

Cognitive: Comprehend principles and practices associated with Heating, Air Conditioning, Ventilation and Refrigeration

Performance: Apply principles and practices associated with Heating, Air Conditioning, Ventilation and Refrigeration

Affective: Value the importance of following safety and regulatory standards associated with Heating, Air Conditioning, Ventilation and Refrigeration

Industry Competencies

- Perform safety procedures and applications at worksites and employer shop prep areas
- Use basic heating & cooling theory and applications
- Use basic electricity theory and applications
- Perform brazing, soldering, and piping techniques
- Use basic air conditioning and refrigeration theory and applications
- Use commercial air conditioning and refrigeration techniques
- Apply knowledge of gas and oil heating systems
- Use knowledge of electric heat pump and solar energy applications
- Use knowledge of Hydronics (boilers) to troubleshoot in the field
- Apply job readiness and career skills such as customer service and communication
- Use effective writing and mathematical applications

WBA Coordinator: Ms. Alexa Markel Date: _____

Student: _____ Date: _____

Employer/WBA Sponsor: _____ Date: _____