

BRACKEN RIDGE STATE HIGH SCHOOL

YEAR 12 Industrial Technology Skills

Course overview 2019

TERM ALLOCATION AND LENGTH	UNIT	SUB TOPICS	ASSESSMENT
MODULE THREE 16 Weeks	Engineering: <ul style="list-style-type: none"> • Fitting and machining • Sheet metal working • Welding and fabrication 	Industry practices <ul style="list-style-type: none"> • C1.1 Manufacturing enterprises • C1.2 Workplace health and safety • C1.3 Personal and interpersonal skills • C1.4 Product quality Production processes <ul style="list-style-type: none"> • C2.1 Specifications • C2.2 Tools • C2.3 Materials 	Practical demonstration (Assess #6) Group exercises (e.g. cricket stumps; mechanical tool) in fitting, mechanical/ lubrication service, metals and composite machining; heat treatment, Plasma cutting, Tungsten Inert Gas (TIG) Gas Metal Arc welding (GMAW) and/or Manual Metal Arc welding (MMAW); light and heavy metal fabrication; keeping and maintaining a log book journal exploring Industry practices and Production processes, related Subject/ Core requirements. Project (Assess#5) Individually Year 12 students manufacture and apply finish to a product from specifications (e.g. mechanical wheel trolley) to meet internal and/or external customer service needs. Analyse and assess Industry practices and Production processes with reference to physical and human resources, capabilities, time, cost, WH&S (Risk Assessment) etc.
MODULE FOUR 15 weeks	Furnishing: <ul style="list-style-type: none"> • Cabinet-making • Furniture finishing 	Industry practices <ul style="list-style-type: none"> • C1.1 Manufacturing enterprises • C1.2 Workplace health and safety • C1.3 Personal and interpersonal Skills • C1.4 Product quality Production processes <ul style="list-style-type: none"> • C2.1 Specifications • C2.2 Tools • C2.3 Materials 	Practical demonstration (Assess #8) Group exercises (indoor or outdoor application) in framing and/or carcass construction, machining of wood products, re-claiming timber and allied material, cutting, shaping and joining, surface preparation and finishing, manual assembly; keeping and maintaining a log book journal exploring Industry practices and Production processes, related Subject/ Core requirements. Project (Assess#7) Individually Year 12 students manufacture and apply finish to a product from specification (e.g coffee table with storage/ feature), partly re-using discarded industrial product to meet internal and/or external customer service needs. Analyse and assess Industry practices and Production processes with reference to physical and human resources, capabilities, time and cost, WH&S (Risk Assessment) etc.

