







# **Model Curriculum**

### Assistant Tungsten Inert Gas Welder (GTAW)

| SECTOR:<br>SUB-SECTOR:                | CAPITAL GOODS<br>1. Machine Tools<br>2. Dies, Moulds and Press Tools<br>2. Plactic Manufacturing Machinery   |         |
|---------------------------------------|--|---------|
|                                       | <ul> <li>a. Plastic Manufacturing Machinery,</li> <li>4.Textile Manufacturing Machinery,</li> <li>5.Plant Machinery,</li> <li>6.Electrical and Power Machinery,</li> </ul> | Process |
| OCCUPATION:<br>REF ID:<br>NSQF LEVEL: | 7.Light Engineering Goods<br>Welding and Cutting<br>CSC/Q0212, V1.0<br>4   |         |















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## Assistant Tungsten Inert Gas Welder (GTAW)

**CURRICULUM / SYLLABUS** 

This program is aimed at training candidates for the job of a "<u>Assistant Tungsten Inert Gas Welder</u> (<u>GTAW</u>)", in the "<u>Capital Goods</u>" Sector/Industry and aims at building the following key competencies amongst the learner

| Program Name                               | Assistant Tungsten Inert Gas Welder (GTAW)   |   |  |  |  |
|--|--|---|--|--|--|
| Qualification Pack Name & Reference ID. ID | CSC/Q0212, v1.0  |   |  |  |  |
| Version No.                                | 1.0  | Version Update Date   |  |  |  |
| Pre-requisites to<br>Training              | 10th Standard passed, preferably   |   |  |  |  |
| Training Outcomes                          | After completing this<br>Perform basi<br>as Gas Tur<br>(GTAW) we<br>requirements.<br>steel, low all<br>prepare variou<br>Basic health<br>site hazards a<br>Work effecti<br>others and de | <ul> <li>After completing this programme, participants will be able to:</li> <li>Perform basic Tungsten Inert Gas (TIG) Welding also known as Gas Tungsten Arc: Performing of basic manual TIG (GTAW) welding for a range of standard welding job requirements. This involves welding different materials (carbon steel, low alloy steel) in various positions. The welder can prepare various joints including corner, fillet and tee.</li> <li>Basic health and safety practices at the workplace: Identify site hazards and apply good housekeeping practices, etc.</li> <li>Work effectively with others: Effectively communicate with</li> </ul> |  |  |  |









This course encompasses <u>3</u> out of <u>3</u> National Occupational Standards (NOS) of "<u>Assistant Tungsten</u> <u>Inert Gas Welder (GTAW)</u>" Qualification Pack issued by "<u>Capital Goods Skill Council</u>".

| Sr.<br>No | Module  | Key Learning Outcomes   | Equipment Required  |
|-----------|---|---|---|
|           | Perform basic<br>Tungsten Inert<br>Gas Welding<br>(TIG) also known<br>as Gas Tungsten<br>Arc Welding<br>(GTAW)<br>Theory Duration<br>(hh:mm)<br>40:00<br>Practical<br>Duration<br>(hh:mm)<br>100:00<br>Corresponding<br>NOS Code<br>CSC/N0212 | <ul> <li>State the necessity of welding</li> <li>Explain various types of welding processes</li> <li>Compare welding processes and state their advantages</li> <li>State the principle of TIG welding</li> <li>Explain safe working practices to be followed while carrying out TIG welding</li> <li>Identify hazards associated with TIG welding and take remedial measures</li> <li>Identify various types of joints         <ul> <li>Fillet lap joint</li> <li>Tee-fillet joint</li> <li>Corner joint</li> <li>Butt joint</li> <li>Double J joint</li> </ul> </li> <li>Explain various welding positions</li> <li>List Personal Protective Equipment required for TIG welding and state their use</li> <li>Demonstrate the method to correctly wear PPE</li> <li>Explain the factors to be considered in TIG welding like type and thickness of the base metal, current type and polarity, type of shielding gas to be used</li> <li>State the purpose of using shielding gas in TIG welding</li> <li>Identify various gases/combination of gases for shielding</li> <li>Identify equipment required for welding         <ul> <li>Transformer</li> <li>Rectifier</li> <li>Inverter</li> <li>Generator</li> <li>Welding torch</li> <li>Electrode</li> <li>Filler wire</li> <li>Return clamp</li> </ul> </li> <li>List common tools used in TIG welding         <ul> <li>Wire brushes</li> <li>Linishers</li> <li>Hammer</li> <li>Power saw</li> <li>Angle</li> <li>Grinders- Pedestal and straight</li> </ul> </li> </ul> | Training kit (Trainer guide,<br>PowerPoint),<br>Transformer, rectifier, inverter<br>,generator, multimeter, volt<br>meter, Welding torch,<br>electrode, filler wire<br>Return clamp, jigs and<br>fixtures, ceramic nozzle,<br>collet, collet holder, gas<br>lens, bakelite cap, Wire<br>brushes, linishers, hammer,<br>power saw, Angle<br>Grinders- Pedestal and<br>straight, chisel etc. Leather<br>gloves; leather apron;<br>welding screen - helmet<br>type; hand screen welding;<br>safety shoes, center punch,<br>divider, calliper outside,<br>steel rule, ball peen<br>hammer, chipping hammer. |









| Sr.<br>No | Module   | Key Learning Outcomes  | Equipment Required   |
|-----------|--|--|--|
|           |  | <ul> <li>Chisel</li> <li>Explain the process and importance of purging</li> <li>Explain the method to prepare the work area for welding operation</li> <li>Prepare the materials and joint in readiness for welding</li> <li>Select suitable shielding gases based on the base metal</li> <li>Plan for the welding operations         <ul> <li>Correct setup of the joint</li> <li>Check for earthing and electrical connections</li> <li>Set correct parameters</li> </ul> </li> <li>Connect flow meters and adjust flow rate</li> <li>Check the condition of base material and prepare edges for the welding</li> <li>Produce joints from various materials in different forms         <ul> <li>Sheet (less than 5 mm)</li> <li>Plate (8 mm)</li> <li>Pipe/tube</li> </ul> </li> <li>Check the dimensions as per WPS</li> <li>Identify possible defects and take corrective actions             <ul> <li>Lack of continuity</li> <li>Uneven ripple formation</li> <li>Incorrect weld size or profile</li> <li>Undercut</li> <li>Overlap</li> <li>Inclusions</li> <li>Eack of penetration</li> <li>Unclusions</li> <li>Sharp edges</li> </ul> </li> </ul> |  |
| 2         | Health and safety<br>Theory Duration<br>(hh:mm)<br>10:00<br>Practical<br>Duration<br>(hh:mm)<br>08:00<br>Corresponding<br>NOS Code | <ul> <li>Explain the importance of personal protective equipment (PPE) required for gas cutting operation</li> <li>State the causes for accidents</li> <li>Identify job site hazardous work and state possible causes of risk or accident at the workplace</li> <li>Explain the importance of '5S' at the workplace</li> </ul>   | Training kit (Trainer guide,<br>PowerPoint)<br>Leather gloves, leather<br>apron, welding screen –<br>helmet types, hand screen<br>welding and safety shoes |









| Sr.<br>No | Module  | Key Learning Outcomes  | Equipment Required  |  |  |
|-----------|---|--|---|--|--|
|           | CSC/N1335   |  |   |  |  |
| 3         | Fire Safety<br>Theory Duration<br>(hh:mm)<br>05:00<br>Practical<br>Duration<br>(hh:mm)<br>30:00<br>Corresponding<br>NOS Code<br>CSC/N1335                                       | <ul> <li>Explain types of fires - Class A, B, C<br/>and D</li> <li>Select appropriate fire extinguisher to<br/>control fire</li> <li>Use PASS method to operate a fire<br/>extinguisher</li> <li>Follow fire safety signs and safe<br/>evacuation method in case of a fire</li> <li>Identify the location of assembly point,<br/>fire exit, fire alarm</li> <li>Follow reporting procedure in case of a<br/>fire</li> </ul>  | Training kit (Trainer guide,<br>PowerPoint)<br>Class A, B, C, D and K fire<br>extinguishers |  |  |
| 4         | Emergencies,<br>rescue and first<br>aid procedure<br>Theory Duration<br>(hh:mm)<br>09:00<br>Practical<br>Duration<br>(hh:mm)<br>18:00<br>Corresponding<br>NOS Code<br>CSC/N1335 | <ul> <li>Follow electrical safety procedures</li> <li>Use approved method to rescue a person from electrocution</li> <li>State the importance of first aid</li> <li>Identify the contents of a first aid kit and their application</li> <li>Administer first aid in case of bleeding, burns, choking, electrical shock, poisoning, etc.</li> <li>Use of CPR process</li> <li>Bandage wounds</li> <li>Explain stages of crisis and crisis management</li> <li>Prepare an incident report</li> </ul>   | Training kit (Trainer guide,<br>PowerPoint)<br>First aid kit with all contents              |  |  |
| 5         | Work effectively<br>with others<br>Theory Duration<br>(hh:mm)<br>20:00<br>Practical<br>Duration<br>(hh:mm)<br>60:00<br>Corresponding<br>NOS Code<br>CSC/N1336<br>Total Duration | <ul> <li>Explain the importance of team work<br/>and team dynamics</li> <li>State 4Cs of working in a team</li> <li>Explain types of communication</li> <li>Apply effective communication<br/>technique</li> <li>Overcome barriers to effective<br/>communication</li> <li>Demonstrate active listening skills</li> <li>Demonstrate good customer service<br/>skills</li> <li>Explain the importance of ethical<br/>behaviour in your day-to-day work</li> <li>State the importance of discipline in life<br/>and apply the same at workplace</li> <li>Unique Equipment Required:</li> </ul> | Training kit (Trainer guide,<br>PowerPoint)   |  |  |
|           | Theory<br>Duration  | Leather gloves; leather apron; welding screen - helmet type; hand screen welding; safety shoes; fire extinguishers - dry powder fire extinguisher; fire bucket with sand, first aid kit; transformer, rectifier, inverter, generator, multimeter, volt meter, Welding torch, electrode filler wire Return clamp  |   |  |  |









| Sr.<br>No | Module                                   | Key Learning Outcomes  | Equipment Required   |
|-----------|--|--|--|
|           | 84:00<br>Practical<br>Duration<br>216:00 | jigs and fixtures, ceramic nozzle, collet, co<br>cap, Wire brushes, linishers, hammer, p<br>Pedestal and straight, chisel etc. Leather g<br>screen - helmet type; hand screen w<br>Extinguishers, First aid kit with all contents. | llet holder, gas lens, bakelite<br>ower saw, Angle Grinders-<br>loves; leather apron; welding<br>velding; safety shoes, Fire |

Grand Total Course Duration: 300 Hours, 0 Minutes

(This syllabus/ curriculum has been approved by Capital Goods Skill Council)









## Trainer Prerequisites for Job role: "Assistant Tungsten Inert Gas Welder (GTAW)" mapped to Qualification Pack: "CSC/Q0212 v1.0"

| Sr.<br>No. | Area                                     | Details  |  |  |  |
|------------|--|--|--|--|--|
| 1          | Description                              | Perform manual TIG (GTAW) welding for a range of standard welding job<br>requirements. This is for a skilled welder who can weld different materials<br>(carbon steel, aluminum, nickel, titanium, copper and stainless steel) in<br>various positions and prepare various joints including corner, butt, fillet and<br>tee. Set-up and prepare for operations interpreting the right information<br>from the WPS. |  |  |  |
| 2          | Personal<br>Attributes                   | Basic communication, numerical and computational abilities. Openness to  |  |  |  |
|            | Allibules                                | problems in the course of working. Understanding the need to take initiative<br>and manage self and work to improve efficiency and effectiveness.  |  |  |  |
| 3          | Minimum<br>Educational<br>Qualifications | Diploma /Degree in Mechanical Engineering  |  |  |  |
| 4a         | Domain<br>Certification                  | Certified for Job Role: " <u>Assistant Tungsten Inert Gas Welder (GTAW)</u> "<br>mapped to QP: "CSC/Q0212, v1.0". Minimum accepted score is 80%  |  |  |  |
| 4b         | Platform<br>Certification                | Recommended that the Trainer is certified for the Job Role: "Trainer",<br>mapped to the Qualification Pack: "MEP/Q0102". Minimum accepted as<br>per respective SSC guidelines is 80%.  |  |  |  |
| 5          | Experience                               | <ul> <li>3-4 years of industry experience in the relevant field</li> <li>3-4 years of teaching experience</li> </ul>   |  |  |  |









#### **Annexure: Assessment Criteria**

| Assessment Criteria  |  |
|----------------------|--|
| Job Role             | Assistant Tungsten Inert Gas Welder (GTAW) |
| Qualification Pack   | CSC/Q0212, v1.0                            |
| Sector Skill Council | Capital Goods Skill Council                |

| Sr.<br>No. | Guidelines for Assessment  |
|------------|--|
| 1          | Criteria for assessment for each Qualification Pack will be created by the Sector Skill  |
|            | importance in NOS. SSC will also lay down proportion of marks for Theory and Skills  |
|            | Practical for each PC.   |
| 2          | The assessment for the theory part will be based on knowledge bank of questions created  |
|            | by the SSC.  |
| 3          | Individual assessment agencies will create unique question papers for theory part for each candidate at each examination/training centre(as per assessment criteria below) |
| 4          | Individual assessment agencies will create unique evaluations for skill practical for every  |
|            | student at each examination/training canter based on this criteria   |
| 5          | To pass the Qualification Pack, every trainee should score a minimum of 70% in every   |
|            | NOS.   |
| 6          | In case of successfully passing only certain number of NOS's, the trainee is eligible to take  |
|            | subsequent assessment on the balance NOS's to pass the Qualification Pack.   |









|                           |  |     |           | Marks          |                             |
|---------------------------|--|-----|-----------|----------------|-----------------------------|
| Assessable<br>Outcome     | Assessment Criteria Total<br>Mark<br>(300)   |     | Out<br>Of | Th<br>eor<br>y | Skill<br>S<br>Pract<br>ical |
|                           | PC1.work safely at all times, complying with health<br>and safety legislation, regulations and other<br>relevant guidelines                            |     | 3         | 1              | 2                           |
|                           | PC2.take necessary safety precautions for<br>TIG welding operations  |     | 2         | 0              | 2                           |
|                           | PC3.interpret weld procedure data sheets<br>Specifications   |     | 3         | 1              | 2                           |
|                           | PC4.check that all measuring equipment is within calibration date  |     | 2         | 0              | 2                           |
|                           | PC5.check if welding machines eg.<br>transformer, inverters (AC/DC), rectifiers and<br>generators have been made available by the<br>authorized person |     | 2         | 1              | 1                           |
|                           | PC6.check if welding torch, tungsten<br>electrode and filler wire have been made<br>available by the authorized person                                 | 100 | 2         | 1              | 1                           |
|                           | PC7.prepare for the TIG welding process  |     | 2         | 1              | 1                           |
| 4.050/N0242               | PC8.prepare the materials and joint in<br>readiness for welding  |     | 2         | 0              | 2                           |
| Perform Basic<br>Manual   | PC9.fit the welding shielding gases given<br>by the authorised person, for a range of given<br>applications  |     | 2         | 0              | 2                           |
| Gas (TIG)<br>Welding also | PC10.plan the welding activities before they<br>start them effectively and efficiently for<br>achieving specifications as per WPS                      |     | 2         | 0              | 2                           |
| known as Gas              | PC11.connect torches and the components  |     | 2         | 0              | 2                           |
| Welding                   | PC12.connect and adjust regulators and flow meters to cylinders  |     | 3         | 1              | 2                           |
| Welding                   | PC13.read, set and adjust current (amperage) as required   |     | 3         | 1              | 2                           |
|                           | PC14.set pre-purge with shielding gas as<br>Required   |     | 2         | 1              | 1                           |
|                           | PC15.prepare tungsten by sharpening or<br>balling it to desired tip shape  |     | 3         | 1              | 2                           |
|                           | PC16.set and verify gas flow rates   |     | 2         | 1              | 1                           |
|                           | PC17.prepare and support the joint, using the appropriate methods  |     | 3         | 1              | 2                           |
|                           | PC18.tack weld the joint at appropriate<br>intervals, and check the joint for accuracy<br>before final welding   | -   | 2         | 0              | 2                           |
|                           | PC19.match feed and travel speed as<br>Required  |     | 2         | 0              | 2                           |
|                           | PC20.perform TIG welding operations using<br>appropriate welding techniques to meet<br>welding procedure specification<br>requirements                 |     | 5         | 1              | 4                           |
|                           | PC21.use correct technique for starting the arc (using HF (high frequency) unit,   | -   | 4         | 2              | 2                           |









|                       |  |                        |           | Marks                  |                                       |
|-----------------------|--|------------------------|-----------|------------------------|---------------------------------------|
| Assessable<br>Outcome | Assessment Criteria  | Total<br>Mark<br>(300) | Out<br>Of | Allo<br>Th<br>eor<br>y | cation<br>Skill<br>s<br>Pract<br>ical |
|                       | scratching the electrode on the job material,<br>lifting the electrode immediately after<br>touching the job material)   |                        |           |                        |                                       |
|                       | PC22.use correct angle of torch and filler<br>Wire   |                        | 4         | 1                      | 3                                     |
|                       | PC23.weld the joint to the specified quality, dimensions and profile   |                        | 4         | 1                      | 3                                     |
|                       | PC24.use manual welding and related equipment, to carry out TIG welding processes  |                        | 4         | 1                      | 3                                     |
|                       | PC25.produce joints of the required quality<br>and of specified dimensional accuracy which<br>achieve a weld quality equivalent to Level B<br>of ISO 5817                          |                        | 4         | 1                      | 3                                     |
|                       | PC26.use both methods to produce the various joints a) with filler wire b) without filler wire (autogenously)  |                        | 4         | 2                      | 2                                     |
|                       | PC27.produce joints from various materials<br>in different forms   |                        | 2         | 0                      | 2                                     |
|                       | PC28.weld joints in good access situations, in select positions  |                        | 3         | 1                      | 2                                     |
|                       | PC29.make sure that the work area is maintained and left in a safe and tidy condition  |                        | 2         | 0                      | 2                                     |
|                       | PC30.use appropriate methods and<br>equipment to check the quality, and that all<br>dimensional and geometrical aspects of the<br>weld are to the specification                    |                        | 4         | 2                      | 2                                     |
|                       | PC31.check that the welded joint conforms<br>to the specification, by checking various<br>quality parameters using visual inspection   |                        | 3         | 1                      | 2                                     |
|                       | PC32.identify various weld defects   |                        | 3         | 1                      | 2                                     |
|                       | PC33.detect surface imperfections and deal with them appropriately   |                        | 2         | 1                      | 1                                     |
|                       | PC34.report any defect or imperfection identified to the authorised person   |                        | 2         | 0                      | 2                                     |
|                       | PC35.shut down and make safe the welding equipment on completion of the welding activities   |                        | 2         | 0                      | 2                                     |
|                       | PC36.detect equipment malfunctions and<br>deal with them appropriately   |                        | 2         | 0                      | 2                                     |
|                       | PC37.deal promptly and effectively with<br>problems within their control, and seek help<br>and guidance from the relevant people if they<br>have problems that they cannot resolve |                        | 2         | 0                      | 2                                     |
|                       | Total  |                        | 100       | 26                     | 74                                    |
| 2.CSC/N1335           | PC1.use protective clothing/equipment for specific   |                        | 5         | 2                      | 3                                     |
| Use basic             | tasks and work conditions  | 100                    |           | ~                      |                                       |
| nealth and safety     | PC2.state the name and location of people responsible for health and safety in the workplace   |                        | 3         | 1                      | 2                                     |









| Assessable<br>Outcome         | Assessment Criteria   | Total<br>Mark<br>(300) | Out<br>Of | Marks<br>Allocation |                             |
|-------------------------------|---|------------------------|-----------|---------------------|-----------------------------|
|                               |   |                        |           | Th<br>eor<br>y      | Skill<br>s<br>Pract<br>ical |
| practices at the<br>workplace | PC3.state the names and location of documents that refer to health and safety in the workplace  |                        | 3         | 1                   | 2                           |
|                               | PC4.identify job-site hazardous work and state possible causes of risk or accident in the workplace   |                        | 5         | 2                   | 3                           |
|                               | PC5.carry out safe working practices while dealing<br>with hazards to ensure the safety of self and<br>others state methods of accident prevention in the<br>work environment of the job role |                        | 4         | 2                   | 2                           |
|                               | PC6.state location of general health and safety equipment in the workplace  |                        | 3         | 2                   | 1                           |
|                               | PC7.inspect for faults, set up and safely use steps<br>and ladders in general use   |                        | 5         | 2                   | 3                           |
|                               | PC8.work safely in and around trenches, elevated places and confined areas  |                        | 5         | 2                   | 3                           |
|                               | PC9.lift heavy objects safely using correct procedures  |                        | 5         | 2                   | 3                           |
|                               | PC10.apply good housekeeping practices at all times   |                        | 4         | 2                   | 2                           |
|                               | PC11.identify common hazard signs displayed in various areas  |                        | 5         | 2                   | 3                           |
|                               | PC12.retrieve and/or point out documents that refer to health and safety in the workplace   |                        | 3         | 1                   | 2                           |
|                               | PC13.use the various appropriate fire extinguishers on different types of fires correctly   |                        | 4         | 1                   | 3                           |
|                               | PC14.demonstrate rescue techniques applied during fire hazard   |                        | 4         | 1                   | 3                           |
|                               | PC15.demonstrate good housekeeping in order to prevent fire hazards   |                        | 3         | 1                   | 2                           |
|                               | PC16. demonstrate the correct use of a fire extinguisher  |                        | 4         | 1                   | 3                           |
|                               | PC17.demonstrate how to free a person from electrocution  |                        | 4         | 1                   | 3                           |
|                               | PC18.administer appropriate first aid to victims<br>where required eg. in case of bleeding, burns,<br>choking, electric shock, poisoning etc.   |                        | 4         | 1                   | 3                           |
|                               | PC19.demonstrate basic techniques of bandaging  |                        | 3         | 1                   | 2                           |
|                               | PC20.respond promptly and appropriately to an accident situation or medical emergency in real or simulated environments   |                        | 4         | 1                   | 3                           |
|                               | PC21.perform and organize loss minimization or<br>rescue activity during an accident in real or<br>simulated<br>environments  |                        | 3         | 1                   | 2                           |
|                               | PC22.administer first aid to victims in case of a heart attack or cardiac arrest due to electric shock, before the arrival of emergency services in real or simulated cases                   |                        | 3         | 1                   | 2                           |
|                               | PC23.demonstrate the artificial respiration and the CPR Process   |                        | 3         | 1                   | 2                           |









| Assessable<br>Outcome                             | Assessment Criteria  | Total<br>Mark<br>(300) | Out<br>Of | Marks<br>Allocation |                             |
|---|--|------------------------|-----------|---------------------|-----------------------------|
|   |  |                        |           | Th<br>eor<br>y      | Skill<br>s<br>Pract<br>ical |
|   | PC24.participate in emergency procedures   |                        | 3         | 2                   | 1                           |
|   | PC25.complete a written accident/incident report<br>or dictate a report to another person, and send<br>report to person responsible    |                        | 4         | 1                   | 3                           |
|   | PC26.demonstrate correct method to move injured people and others during an emergency  |                        | 4         | 1                   | 3                           |
|   | Total  |                        | 100       | 36                  | 64                          |
| 3.CSC/N1336<br>Work<br>effectively with<br>others | PC1.accurately receive information and<br>instructions from the supervisor and fellow<br>workers, getting clarification where required |                        | 10        | 3                   | 7                           |
|   | PC2.accurately pass on information to authorized<br>persons who require it and within agreed<br>timescale and confirm its receipt      |                        | 10        | 3                   | 7                           |
|   | PC3.give information to others clearly, at a pace<br>and in a manner that helps them to understand                                     |                        | 10        | 3                   | 7                           |
|   | PC4.display helpful behavior by assisting others in performing tasks in a positive manner, where required and possible                 |                        | 10        | 3                   | 7                           |
|   | PC5.consult with and assist others to maximize effectiveness and efficiency in carrying out tasks                                      |                        | 10        | 3                   | 7                           |
|   | PC6.display appropriate communication etiquette while working  |                        | 10        | 3                   | 7                           |
|   | PC7.display active listening skills while interacting with others at work  |                        | 10        | 3                   | 7                           |
|   | PC8.use appropriate tone, pitch and language to convey politeness, assertiveness, care and professionalism                             |                        | 10        | 3                   | 7                           |
|   | PC9.demonstrate responsible and disciplined behaviors at the workplace   |                        | 10        | 3                   | 7                           |
|   | PC10.escalate grievances and problems to<br>appropriate authority as per procedure to resolve<br>them and avoid conflict               |                        | 10        | 3                   | 7                           |
|   | Total  |                        | 100       | 30                  | 70                          |
|   | Grand Total  | 300                    | 300       | 92                  | 208                         |
|   | Percentage Weightage:  |                        |           | 31                  | 69                          |
|   | Minimum Pass% to qualify (aggregate):  |                        |           |                     | 70                          |