**CONTACT DETAILS OF THE AWARDING BODY FOR THE QUALIFICATION**

**Name and Address of Awarding Body:**

**Name and address of awarding body:**

Indo Danish Tool Room,

M4,Part 6,Tata Kandra Road,Gamharia

Jamshedpur-0657,2201261/62

**Name and contact details of individual dealing with the submission**

**Name:**

MR Anand Dayal

General Manager

Indo Danish Tool Room,

M4,Part 6,Tata Kandra Road,Gamharia

Jamshedpur-

**Tel number(s):** 0657,2201261/62

**E-mail address: reach@idtrjamshedpur.com,training@idtrjamshedpur.com**

**SUMMARY**

|  |  |  |  |
| --- | --- | --- | --- |
| **Qualification Title:**  **CONDENSED COURSE IN TOOL AND DIE MAKING** | | | |
| **Nature and Purpose of the Qualification:**  **Nature:** Certificate Course  **Purpose:**  Learners who attain this qualification are competent in Tool and Die Manufacturing and can get a job in a captive or commercial Tool Room or become an entrepreneur.   * Qualifying learners attain skills to work in conventional and CNC machines like Turning, Milling, and grinding and tool assembly. Additionally, the learners attain skill to handle CAD/CAM software. * Qualified learners are capable of working in Sheet metal industry in their Press Shop, Plastic industries in their Mould shop and general engineering industry in their machine shop. * Participants will be able to work on different types of mould and press tools, can able to do the maintenance and trouble shoot the problems. | | | |
| **Body/bodies which will award the Qualification:**  Indo Danish tool Room, Jamshedpur | | | |
| **Body which will accredit providers to offer courses leading to the qualification:**  Indo Danish tool Room, Jamshedpur | | | |
| **Body/bodies which will be responsible for assessment:**  Indo Danish tool Room, Jamshedpur | | | |
| **Occupation(s) to which the Qualification gives access:**  Entrepreneur/Skilled Technician/Tool and Die maker in the field of Tool and Die making. | | | |
| **Proposed level of the Qualification in the NSQF:**  Level-4 | | | |
| **Anticipated volume of training /learning required to complete the Qualification:**  1 year (1560 Hours) | | | |
| **Entry requirements/recommendations:**  Preferably Matriculation (10th) pass. | | | |
| **Progression from the qualification:**  After completion of course and after 3 years of field experience the trainee can work as a Tool and Die Maker and after that 5 years of experience, the person can work as a supervisor. | | | |
| **Planned arrangements for the Recognition of Prior Learning (RPL)**  Yes | | | |
| **International comparability where known:**  Canada:-Conestoga college in Canada conducts a Certificate course whose program title is Mechanical Techniques- Tool & Die/ Tool Maker, Program code 1281 of Pose secondary level regular course of 8 months duration. | | | |
| **Date of Planned review 20.10.2020**  **Semester-I** | | | |
| **Title of component** | **Mandatory/ optional** | **Estimated size (learning hours)** | **Level** |
| Production technology  Auto CAD  Part Programming  Master Cam  Press Tool Design  CNC Technology  Engineering Drawing  Material Technology  Metrology  Press Tool Theory | M  M  M  M  M  M  M  M  M  M | 125 | Level-4  Level-3  Level-4  Level-4  Level-3  Level-4  Level-4  Level-4  Level-4  Level-4 |
| 81 |
| 61 |
| 81 |
| 125 |
| 125 |
| 78 |
| 39 |
| 26 |
| 39 |
| **Total** | | **780** | |
| **Semester-II** | | | |
| **Title of component** | **Mandatory/ optional** | **Estimated size (learning hours)** | **Level** |
| Press Tool Design  Mould Manufacturing  Modern Manufacturing Technology  Jigs and Fixture  Mould Theory  Communicative English  Industrial Management  Inplant Training & Project Work | M  M  M  M  M  M  M | 180 | Level-3  Level-4  Level-4  Level-4  Level-4  Level-4  Level-3 |
| 180 |
| 54 |
| 36 |
| 54 |
| 18 |
| 18 |
| 240 |
| **Total** | | **780** | |
| **Body/Bodies which will carry out Assessment:**  Examination Cell of Indo Danish Tool Room Jamshedpur. | | | |
| **Will the Assessment Body be responsible for RPL Assessment?**  Yes | | | |
| **How will RPL assessment be managed and who will carry it out?**  Learners who have met the requirements of any Unit Standard that forms part of this qualification may apply for recognition of prior learning to the relevant Education body. The applicant must be assessed against the specific outcomes and with the assessment criteria for the relevant Unit Standards. | | | |
| **Describe the overall assessment strategy and specific arrangements which have been put in place to ensure that assessment is always valid, consistent and fair and show that these are in line with the requirements of the NSQF.**  **1. ASSESSMENT GUIDELINE:**   * Criteria for assessment based on each learning outcome, will be assigned marks proportionately to its importance. * The assessment for the theory & practical part is based on knowledge bank of questions created by trainers and approved by Examination cell (Indo Danish Tool Room Jamshedpur.) * For each Individual batch, Examination cell will create unique question papers for theory part as well as practical for each examination. * To pass the Qualification, every trainee should score a minimum of 70% cumulatively (Theory and Practical) * Assessment comprises the following components: * Job carried out in labs/workshop * Record book/ daily diary * Answer sheet of assessment * Viva –voce * Progress chart * Attendance and punctuality   **2. ASSESSORS:**  IDTR, Jamshedpur faculty looking after the course “**CONDENSED COURSE IN TOOL AND DIE MAKING**”, also assesses the students as per guidelines set by Examination cell of IDTR, jamshedpur. Faculties have been trained from time to time to upgrade their skills on various aspects such as conduct of assessments, teaching methodology etc. These training are usually conducted at Xavier Institute of Management (XIMB), Bhubaneswar, Xavier Labor Relations Institute (XLRI), Jamshedpur and other renowned Institutions/Establishments of the country.  **3. ELIGIBILITY TO APPEAR IN THE EXAM:**  Minimum 80% attendance is compulsory for the students to appear for the assessments.  **4. MARKING SCHEME:**   |  |  |  |  | | --- | --- | --- | --- | | **Sr.No.** | **Method of Assessments** | **Weightage (Max. marks)** | **Evaluator** | | 1 | Written Test | 20 | Trainer + Course coordinator + Examiner nominated by Examination Cell of IDTR, jamshedpur | | 2 | Practical Test | 40 | | 3 | Viva-voce | 10 | | 4 | Class/Workshop/Lab performance | 10 | | 5 | Project | 20 | | **TOTAL** | | **100** |  |   **5. PASSING MARKS:**  Passing criteria is based on marks obtained in attendance record, term works, assignments, practical performance, viva or oral exam, module test, practical exam and final exam.  Minimum Marks to pass practical exam – 60%  Minimum Marks to pass theory exam – 40%  **6. RESULTS AND CERTIFICATION:**  The assessment results are backed by evidences collected by assessors. Successful trainees are awarded the certificates by IDTR, jamshedpur. | | | |

**ASSESSMENT EVIDENCE:**

Assessment evidence comprises the following components document in the form of records:

* 1) Job carried out in labs/workshop
* 2) Record book/ daily diary
* 3) Answer sheet of assessment
* 4) Viva –voce
* 5) Progress chart
* 6) Attendance and punctuality

**Title of Component: CONDENSED COURSE IN TOOL AND DIE MAKING**

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| --- | --- | --- | --- | --- | --- |
| **Assessable outcome Description** | | **Assessment criteria for the outcome** | | | |
| **LO** | **Assessment outcome description** | **Theory** | | **Practical** | **Total** |
| Demonstrate workshop safety rules and use of personal protective equipment (PPE). | Use PPE while working in the workshop. | 120 | 00 | | 120 |
| Demonstrate the cutting tool materials used. | Identify tool materials and their properties. |
| Demonstrate the parts of lathe machine and their function. | Identify all the parts and mechanism used in lathe**.** |
| Demonstrate standard operating procedure (SOP) for lathe. | Use SOP for the manufacturing of parts. |
| Demonstrate to operate the milling machine and follow SOP. | Identify the parts and its function of milling machine and follow the SOP for manufacturing. |
| Demonstrate operation on grinding machine. | Identify the parts and its function of grinding machine and follow the SOP for operation. |
| Demonstrate the de-burring process after every machining process. | De-burr and check whether the sharp edges are removed out from the work-piece after machining. |

**Title of Component: AUTO CAD**

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| **LO** | **Assessment outcome description** | **Theory** | | **Practicle** | | | **Total** | |
| Demonstrate co-ordinate system, used in CAD/CAM & AutoCAD | Use auto-cad to draw geometry by co-ordinate system**.** | 21 | 60 | | | 81 | | |
| Demonstrate interface of AutoCAD, mouse function, functional keys, shortcut keys, paper size | Set the standard paper size in the AutoCAD. |
| Demonstrate window limits, line, construction line, ray, trim, extend, erase. | Prepare the drawings in auto-cad by using limits, line, construction line, ray, trim, extend, erase. |
| Demonstrate circle, rectangle, copy, move, and offset, rotate. | Use commands to prepare the drawings. |
| Demonstrate array, mirror, scale, stretch, polyline, polygon, and arc. | Identify the proper commands and draw the given drawings in auto-cad. |  | | |  | | |  |
| Demonstrate spline, ellipse, revision cloud, and region, explode, join, break, and break at a point. | Use the commands properly while drafting in Auto-CAD |
| Demonstrate point, point style, divide, measure, fillet, chamfer, blend curve | Identify the proper commands and draw the given drawings in auto-cad. |
| Demonstrate hatch, gradient, details of sectional view. | Identify the commands for proper sectioning methods as per the material. |
| Demonstrate text, Mtext, text style, arc aligned text, mirror text | Use the commands for putting the text on the drawing. |
| Demonstrate block, Wblock, insert block, edit block | Draw the title block using those commands using auto-cad. |
| Identify dimension toolbar,  dimension style & GD&T symbols | Provide dimension on the geometry by using auto-cad software. |
| Demonstrate solid modeling, 3d environment & toolbars, extrude, revolve, Boolean operation, sweep, loft, 3d move, 3d rotate, 3d array, 3d align, solid editing toolbar, primitives. | Prepare the solid model by using the commands in auto-cad and do the editing whenever it is necessary to modify. |
| Plot and print the drawing. | Plot the drawing with the help of auto-cad software. |

**Title of Component: PART PROGRAMMING**

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| **LO** | **Assessment outcome description** | **Theory** | **Practice** | **Total** |
| Demonstrate the different codes to generate a programme for running a CNC machine. | Identify different controller used in CNC M/C.  Prepare Programme using preparatory (G-codes) and machining (M-codes).  Run the CNC milling programme.  Run the CNC turning programme. | 21 | 40  ` | 61 |
| CNC Lathe- Parts- Specifications- Cutting parameters - Types of Operations- Selection of proper Cutting Tools, Types of Work and Tool holding devices. | Concept on CAM procedure –NC,CNC,DNC CNC Lathe - Parts- Specifications ,Controllers , Cutting parameters like speed, feed, RPM, depth of cut etc., Datum Setting, use of Turret.  Concepts on preparatory codes, machine codes like G00…G98, M00…M30. |
| Manufacture component with  CNC Lathe operations. | Programme the machine for rough and finish shoulder turning. Run program for taper, groove and radius, drilling, Boring and Ext. thread cutting ,internal thread cutting, multi start threading, sub program etc. |
| Demonstrate programming techniques in CNC milling, CNC Mill- Types- Parts- Specifications- Cutting parameters, Types of Operations- Selection of proper Cutting Tools, Types of Work and Tool holding devices. | Identify the controller and generate, run and execute the program on the CNC milling machine. |
| Manufacture component with  CNC MILL Operations. | Use CNC milling machine of different controller (FANUC and SEIMENS) and run the program for performing milling operation like contour and pocketing cycles with flat end mills and parameters. |

**Title of Component: Master-CAM**

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| **LO** | **Assessment outcome description** | **Theory** | **Practicle** | **Total** |
| Demonstrate introduction to CAM technology & benefits, interface of Master Cam, used of toolbars, functional keys & mouse functions | Identify the toolbar and use functional key. | 21 | 60 | 81 |
| Demonstrate line , rectangle , rectangle shape, circle & arc, fillet, fillet chain, chamfer , chamfer chain , polygon , ellipse | Use the icon for the required command to draw the assigned geometry. |
| Demonstrate translate, mirror, rotate, trim, spline, scale, move to origin, offset, offset contour, rectangular array. | Make 2-D modeling by using the icons for different command. |
| Demonstrate letter, point, spiral, and helix, break two pieces, trim much joint entity, close arc, break many pieces, simplify. | Prepare modeling using these icons of Master-CAM |
| Demonstrate break at intersection, break circle, break drafting into line, convert to nurbs, modify spline, x hatch, dimension tools, dimension option, note. | Prepare modeling using these icons of Master-CAM |
| Demonstrate introduction to surface modeling, 3D Environment, used of 3D tool bar, draft, extrude, fillet, trim. | Create 3-D models using these icons. |
| Demonstrate ruled / lofted, revolved, offset, swept. | Generate 3-Dprofile using those icons. |
| Demonstrate net surface, fence, extend, flat boundary, fill holes, remove boundary. Demonstrate split, untrim, 2 surface blend, 3 surface blend, 3fillet blend, project, types of tool path, step to generate a tool path, use of machining tool bars. | Generate tool path using machining toolbar and other commands. |  |  |  |
| Demonstrate 2D countering & pocketing, 2D drilling & facing | Do the machining using the options like 2-D countering,pocketing,2-D drilling, etc. |
| Demonstrate icons like surface rough ( pocket , parallel , radial ) surface finish (parallel , radial ), flow line , contour , shallow , project , pencil. | Generate the toolpath on the model created by surface. |
| Demonstrate to generate programs & lathe tool path. | Generate the tool path and programmes for lathe operation. |

**Title of Component: PRESS TOOL DESIGN**

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| **LO** | **Assessment outcome description** | **Theory** | **Practicle** | **Total** |
| Demonstrate Blanking tool and study of component. | Make strip layout, determine cutting clearance, cutting force, press tonnage, economy of material etc. | 00 | 125 | 125 |
| Demonstrate design of die plate, punches etc. | Calculate the design parameters for die plate and punches. |
| Demonstrate the design concept of top plate and bottom plate, guide pillar and guide bushes. | Do Design calculations for top and bottom plates, guide pillar & bushes. |
| Design miscellaneous parts like shank. | Find out the plug point and do design of shank. |
| Demonstrate procedure of 3D assembly, and bill of materials. | Prepare assembly drawing and mention the part numbers and prepare bill of material. |
| Demonstrate the procedure to prepare part drawings with tolerances, GD&T symbols and machining symbols for Die plates and Punches. | Prepare part detailing of press tool with GD&T and surface finish symbol. |  |  |  |
| Demonstrate the procedure to prepare part drawings with tolerances, GD&T symbols and machining symbols for punch holder, stripper plates, guide plates etc. | Prepare part detailing of press tool with GD&T and surface finish symbol. |
| Demonstrate the procedure to prepare part drawings with tolerances, GD&T symbols and machining symbols for top and bottom plates, guide pillars and bushes etc. | Draw Top plate and bottom plate showing GD&T and machining symbols. |

**Title of Component: CNC TECHNOLOGY**

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| **LO** | **Assessment outcome description** | **Theory** | **Practicle** | **Total** |
| Demonstrate CNC machine, advantage & disadvantage, G & M-codes for milling, part programming fundamentals, functional keys & steps to write a programme. | Identify types of CNC machines and G-codes and M- codes used in different controller for programming. | 100 | 25 | 125 |
| Demonstrate contouring, used of compensation, how to prepare a programme. Chamfer, circular movement, label setting | Use contouring operation taking tool compensation by setting the label. |
| Demonstrate pocketing (rectangular & circular), polar movement, peck drilling, mirror cycle, datum shift. | Use the pocketing of rectangular and circular type.  Use peck drilling cycle on the machine. |  |  |  |
| Demonstrate G & M-codes for turning, homing process, rough turning cycle, facing, chamfer, circular movement | Use m-codes and g-codes for turning. Run the cycle for rough turning, facing, chamfering. |
| Demonstrate grooving, peck drilling, threading (internal & external) | Perform grooving and peck drilling and threading (internal & external) |
| Demonstrate boring, CD, sub programme. | Run the machine using sub-programme for boring, centre drilling. |

**Title of Component: ENGINEERING DRAWING**

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| **LO** | **Assessment outcome description** | **Theory** | **Practicle** | **Total** |
| Demonstrate types of line, line group, arrow head, type of paper size, title block, out boundary. | Draw 2D geometry by conventional method with the help of drawing tools like, drawing board, mini drafter, pencil etc. | 78 | 00 | 78 |
| Demonstrate scale, dimension, dimensioning rules & its use. | Use scale and put dimension with the help of drawing tools on different mechanical objects. |
| Demonstrate angle of projection method, orthographic views,  Sectioning, its type and application. | Draw orthographic views with the help of drawing tools of different isometric drawing in 1st angle or 3rd angle projection. |
| Demonstrate Sectioning and types of sectioning and their uses. | Draw Sectional elevation and plan views in different type of sectioning method. |
| Explain surface roughness symbols and its application on the drawing. | Apply different surface roughness symbols on the drawing as per requirement. |
| Demonstrate limits, fits and tolerances on the drawing. | Mention tolerance of different fittings in an assembly drawing. |  |  |  |
| Demonstrate analysis of assembly drawing. | Prepare assembly drawing with all detail-out parts. |

**Title of Component: MATERIAL TECHNOLOGY**

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| **LO** | **Assessment outcome description** | **Theory** | **Practicle** | **Total** |
| Demonstrate mechanical properties of material. | Explain mechanical properties of different materials. | 39 | 00 | 39 |
| Demonstrate the classification of materials. | Identify ferrous and non-ferrous materials. |
| Demonstrate the classification of iron and steel. | Distinguish between steel and iron. |
| Demonstrate steels and its alloys. | State the effect of alloying elements &  High carbon steels. |
| Demonstrate tool steels and  Tool & die materials. | Describe tool steels and tool & die materials.  Composition, properties and applications. |
| Demonstrate spring steels, high speed steel and stainless steels. | Describe the composition, properties and application of spring steel, stainless steel and high speed steel. |
| Demonstrate heat treatment processes. | Explain the importance of heat treatment. |
| Demonstrate Annealing and normalizing | Explain the effect of annealing and normalizing process on the steel. |
| Demonstrate Hardening and tempering. | Describe the process of hardening and tempering. |  |  |  |
| Demonstrate Non-ferrous metals. | Identify different types of non-ferrous metal. |
| Demonstrate Aluminum & its alloys  Copper & its alloys. | Describe aluminum alloys and copper alloys and their importance. |
| Demonstrate Thermoplastic  Thermosets plastics. | State the trade name, properties and applications of thermoplastic and thermosets plastics materials. |

**Title of Component: METROLOGY**

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| **LO** | **Assessment outcome description** | **Theory** | **Practicle** | **Total** |
| Demonstrate standardization of measuring instrument (linear, angular). | Explain how to do standardization of the measuring instruments. | 26 | 00 | 26 |
| Explain Gauges (standard gauge: feeler gauge, radius gauge, screw pitch gauge). | Use the gauges for checking the machined parts. |
| Explain limit, fit and tolerance | Apply Limit, fit and tolerance and find out limits by using chart, calculate tolerance, find the type of fits. |
| Demonstrate Limit gauge: plug gauge, thread plug gauge, snap gauge. | Inspect given hole and internal thread using plug gauge and thread plug gauge. |
| Demonstrate Ring gauge, thread ring gauge. | Check the size of a shaft and threaded shaft using ring gauge and thread ring gauge. |
| Demonstrate comparators as well as hand on practice on different measuring instruments, | Inspect the given job using Micro meter and Vernier caliper. |
| Demonstrate Height master and profile projector. | Use height master and profile projector for the measurement. |

**Title of Component: PRESS TOOL THEORY**

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| **LO** | **Assessment outcome description** | **Theory** | **Practicle** | **Total** |
| Demonstrate Press Machines- specifications, Shear Theory, Various types of shearing and Non-shearing operations. | Explain basics of a press tool and its specification and shearing and non-shearing operations. | 39 | 00 | 39 |
| Demonstrate standard die sets and strip layouts and tonnage calculation. | Identify types of die-sets and proper material for die-set. Calculate cutting force, cutting clearance & stripping force. |
| Demonstrate about the progressive tool. | Identify the progressive tool parts and the number of stations. |
| Demonstrate punch mounting methods. | Assemble punches for Piercing, Blanking, and Notching Lancing. |
| Demonstrate about Die stops, Pilots, finger & Trigger stops. | Identify different types of stops used in press tool. |
| Demonstrate bending tool and bending terminology. | Calculate unbent strip length for a bending component. |
| Demonstrate compound die, draw die, combination die. | Explain construction, application of compound die,  Draw die and combination die. |
| Demonstrate draw radius, draw clearance, blank size, draw ratio, draw speed. | Perform required calculation for drawing tool. |

**Title of Component: MOULD MANUFACTURING**

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| **LO** | **Assessment outcome description** | **Theory** | **Practicle** | **Total** |
| Demonstrate about Moulds. | Identify- hand, semi-automatic, fully automatic moulds. | 00 | 180 | 00 |
| Explain Component drawing for material, shape, shrinkage & parting surface. | Do detail study of related components regarding material, shape, shrinkage & parting surface. |
| Demonstrate design process of core & cavity Inserts. | Do design of core and cavity inserts. |  |  |  |
| Explain design procedures of cavity plate, core plate. | Select standard mould base as per core and cavity plate dimension. |
| Explain mould base elements like Top & Bottom Plates, Core back plate, & guiding elements such as Guide pillar & Guide bush. | Make design calculation for parts of standard mould base. |
| Demonstrate feed system elements like locating ring, Sprue bush, runner & gate. | Prepare design of locating ring, sprue bush, runner and gate. |
| Demonstrate two plate Injection mould with single cavity and multi cavity. | Do design of two plate Injection mould with single cavity and multi cavity. |
| Demonstrate cavity and core cooling system and Sprue Puller. | Design cooling channels in core and cavity plate. |
| Explain to prepare part drawings with GD & T symbols with Mould parts. | Draw mould parts with specified symbols. |

**Title of Component: MODERN MANUFACTURING TECHNOLOGY**

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| **LO** | **Assessment outcome description** | **Theory** | **Pracitical** | **Total** |
| Demonstrate theory and principle of non-conventional machining process and their types. | Describe advantages of non-conventional machining process. | 54 | 00 | 54 |
| Demonstration of EDM machine. | Practice on the panel board of the machine |
| Explain about Setting of Work piece.  Tool material, dialing, and Tool off setting process. | Set the work piece properly.  Do dialing of the tool and set the tool perfectly.  Offset the tool and set the feed rate. |
| Demonstration of Wire EDM machine, Tool material, dialing and setting of tool. | Set the proper cutting speed and feed rate.  Measure Z zero offset of the tool and do the machining. |  |  |  |
| Explain properties and characteristics of Di electric fluid. | Use proper di electric medium for good machinability and surface finish. |

**Title of Component: MOULD THEORY**

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| **LO** | **Assessment outcome description** | **Theory** | **Practicle** | **Total** |
| Demonstrate about Moulds. | Identify- hand, semi-automatic, fully automatic moulds. |  |  |  |
| Explain molding machines & types of moulds. | Determine the parts- functions, specifications, molding cycle and the method of operation. |
| Demonstrate compression mould, Injection mould, and Transfer mould. | Identify compression mould, Injection mould, and transfer mould and determine the materials used. |
| Demonstrate injection mould and standard mould base. | Describe construction, parts-applications- materials. |
| Demonstrate parting line, guiding elements. | Identify parting line on the component. |
| Demonstrate gate & runner of mould. | Identify the different types of gate used while designing mould and select the runner system as per the requirements. |
| Demonstrate ejection system & cooling system. | Demonstrate ejection system & cooling system. |  |  |  |
| Demonstrate split moulds. | Determine the types of split concept used ( Side core- Sliding splits) |
| Demonstrate dog leg cam mould | Describe the construction of dog leg cam mould and its application applications. |

**Title of Component: JIGS AND FIXTURE THEORY**

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| **LO** | **Assessment outcome description** | **Theory** | **Practicle** | **Total** |
| Demonstrate application of jigs & fixture. | Explain the uses of jigs & fixtures in the machining process. | 36 | 00 | 36 |
| Demonstrate drill jigs & selection of fixtures on the basis of component. | Explain the use of drill jigs & selection of fixtures on the basis of component. |
| Discussion on locator types. | Explain the uses of locator types. |
| Demonstrate location principle of locator, dowel locator, diamond pin locator etc. | Use location principle of locator for different jobs. |

**Title of Component: INDUSTRIAL MANAGEMENT**

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| **LO** | **Assessment outcome description** | **Theory** | **Practicle** | **Total** |
| Demonstrate about industry and their types. | Follow the industrial culture in different types of industries. | 18 | 00 | 18 |
| Demonstrate the human relation and behavioral skill. | Behave with your boss as well as colleagues well concerned. |
| Explain the work culture followed in a group in industry. | Conduct group discussions interview. |
| Demonstrate marketing Strategy |  |

**Title of component: COMMUNICATIVE ENGLISH**

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| **LO** | **Assessment outcome description** | **Theory** | **Practicle** | **Total** |
| Demonstrate Communication Skills, use language as a tool of communication. | Explain the Basics of Communication, Soft Skills, demonstrate non-verbal communication – body language. | 54 | 00 | 54 |
| Demonstrate and improve the participant’s English language skills. | Read The Sounds of English – Vowels & Consonant. Word Accent – Accent, Tone, Pitch. |
| Demonstrate Personality Development . | Demonstrate Presentation Skills, Newspaper reading, Body Language – positive gestures, handshakes, eye contact, smiles, styles of walking, hand movements, etc. Role Plays and Situation Handling, Personal and Career Development (Career Counseling). |
| Demonstrate Full Dress Rehearsal | Prepare an effective cover letter, resume/curriculum vitae, Group Discussion, Personal Interview, Corporate Interface. |

**EVIDENCE OF RECOGNITION AND PROGRESSION**

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| --- |
| **What steps have been taken in the design of this or other qualifications to ensure that**  **there is a clear path to other qualifications in this sector?**  Relevant information was collected from Industries and allied sector working in this area.  The Automotive Components industries are recruiting people based on the qualification acquired. Maximum  of the industries accept this as qualification for selection/short listing of the individual.  approved by members.  **Vertical Pathway:**  The Occupational Map has been created & attached.  The **MACHINE OPERATION** has a clear pathway  **Horizontal Pathway:**  The individual can migrate within the Automotive Components related industries. |