



GUJARAT TECHNOLOGICAL UNIVERSITY

Syllabus for Bachelor of Vocation (B.Voc), 3rd Semester

Branch: Production Technology

**OJT Elective Name: Quality Inspector Forged, Casted or Machined
Component (CSC/Q0601)**

Subject Code: 1130309

**With effective
from academic
year 2018-19**

Type of course: Under Graduate

Prerequisite: None.

Rationale: It involves checking the forged, casted and machined components for both dimensional accuracy and for visual quality at various stages of manufacture, such as before production, intermediate and after production and recording the results of the inspection during & after the inspection activities.

Teaching Scheme			Credits	Examination Marks				Total Marks
L	T	P		Theory Marks		Practical Marks		
			ESE (E)	PA (M)	ESE (V)	PA (I)		
0	0	15	15	0	0	100	100	200

Sr. No.	Topic	No. Of hours	% Weightage
1.	Inspect forged, casted and machined components for visual quality and dimensional accuracy. This unit covers the inspection of forged, casted and machined components to ensure visual quality and dimensional accuracy as per specifications. This involves using appropriate drawings to understand specifications, selecting the appropriate inspection equipment based on the features to be checked and the accuracy to be measured. Scope: <ul style="list-style-type: none"> • Work safely • Prepare for inspecting the component • Carry out inspections of the component 	150	50
2.	Basic health and safety practices at the workplace : Knowledge and practices related to health, safety and security that candidates need to use in the workplace. It covers responsibilities towards self, others, assets and the environment. Scope: This unit/task covers the following: <ul style="list-style-type: none"> • Health and safety • Fire safety • Emergencies, rescue and first-aid procedure 	25	25
3.	Work effectively with others This unit covers basic etiquette and competencies that a candidate is required to possess and demonstrate in their behavior and interactions with others at the workplace. These cover areas such as communication etiquette, discipline, listening etc. Scope: This unit/task covers the following: <ul style="list-style-type: none"> • Work effectively with others 	25	25



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**Suggested Specification table with Marks
(Practical):**

Distribution of Practical Marks					
R Level	U Level	A Level	N Level	E Level	C Level
20	20	30	10	10	10

**Legends: R: Remembrance; U: Understanding; A: Application, N: Analyze and E:
Evaluate C: Create (Revised Bloom's Taxonomy)**

Course Outcomes:

After learning the course the students should be able to:

- Inspect forged, casted and machined components for visual quality and dimensional accuracy
- Apply basic health and safety practices at the workplace
- Work effectively with others

List of Open Source Software/learning website

1. www.nptel.ac.in/