

## **Civil Engineers**

Civil Engineers design, plan, and supervise the construction and maintenance of infrastructure projects such as roads, bridges, buildings, dams, and water systems. They apply principles of mathematics, physics, and engineering to ensure structures are safe, efficient, and sustainable. Their work is essential for urban development, transportation, and public safety.

### **Duties and Responsibilities (Points):**

- Design and develop plans for infrastructure projects
- Conduct feasibility studies and site assessments
- Prepare detailed drawings, specifications, and cost estimates
- Supervise construction activities to ensure compliance with plans and safety standards
- Analyze soil, materials, and environmental conditions
- Monitor project progress, schedules, and budgets
- Collaborate with architects, engineers, contractors, and government agencies
- Implement sustainable and environmentally friendly engineering solutions
- Conduct inspections, testing, and quality control of structures
- Prepare technical reports, documentation, and project proposals