```
# Pattern 1: Basic build and test workflow
.PHONY: build test clean
build:
  docker build -t myapp:latest .
test: build
  docker run --rm myapp:latest npm test
clean:
  docker rmi myapp:latest
# Pattern 2: Environment-specific configurations
.PHONY: deploy-dev deploy-prod
deploy-dev:
  kubectl apply -f k8s/dev/
deploy-prod:
  @echo "Deploying to production..."
  @read -p "Are you sure? [y/N] " confirm && [[ $$confirm == [yY] ]] || exit 1
  kubectl apply -f k8s/prod/
# Pattern 3: Parameterized targets
.PHONY: deploy
ENV ?= dev
TAG ?= latest
deploy:
  @echo "Deploying to $(ENV) with tag $(TAG)"
  docker build -t myapp:$(TAG) .
  docker push myapp:$(TAG)
  kubectl set image deployment/myapp container=myapp:$(TAG) -n $(ENV)
# Pattern 4: Self-documenting Makefile
.PHONY: help
.DEFAULT_GOAL := help
help:
  @grep -E '^[a-zA-Z_-]+:.*?## .*$$' $(MAKEFILE_LIST) | sort | awk 'BEGIN {FS = ":.*?##
setup: ## Install dependencies
  npm install
lint: ## Run linters
```

```
eslint . && stylelint "**/*.css"
```

Pattern 5: Local development environment
.PHONY: dev down logs

dev: ## Start local development environment
 docker-compose up -d

down: ## Stop local development environment
docker-compose down

logs: ## View logs
docker-compose logs -f